Remedial Investigation / Alternatives Analysis Report

North Aud Block
NYSDEC BCP #C915406
Portion of 130 Main Street
Buffalo, New York

May 2025

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Table of Contents

Certification v

1. Introduction 1
    1.1 Background 1
    1.2 Previous Investigations 2
        1.2.1 July 2020 – Environmental Site Review Addendum 2
        1.2.2 April 2023 – Phase I ESA 2
        1.2.3 May/June 2023 – Test Pit Investigation 3
    1.3 Purpose and Scope 3

2. Remedial Investigation Approach 5
    2.1 RI Soil/Fill Investigation 5
        2.1.1 Surface Soil/Fill Investigation 5
        2.1.2 Surface Soil/fill Sample Collection and Analyses 6
        2.1.3 Subsurface Soil/Fill Investigation 6
        2.1.4 Subsurface Soil/Fill Sample Collection and Analyses 6
    2.2 Groundwater Investigation 7
        2.2.1 RI Monitoring Well Installation 7
        2.2.2 Monitoring Well Development 7
        2.2.3 Groundwater Sample Collection and Analyses 8
    2.3 Soil Vapor Investigation 8
    2.4 Field Specific Quality Assurance/Quality Control Sampling 9
    2.5 Site Mapping 9
    2.6 Decontamination & Investigation-Derived Waste Management 9

3. Site Physical Characteristics 10
    3.1 General Site Features and Site Topography 10
    3.2 Geology and Hydrogeology 10
        3.2.1 Overburden 10
        3.2.2 Bedrock 11
        3.2.3 Hydrogeology 11
        3.2.4 Hydraulic Gradients 11

4. Investigation Results By Media 12
    4.1 Surface Soil/Fill Results 12
        4.1.1 Volatile Organic Compounds 12
        4.1.2 Semi-Volatile Organic Compounds 12
        4.1.3 Metals 12
        4.1.4 Polychlorinated Biphenyls 12
        4.1.5 Pesticides and Herbicides 13
        4.1.6 Per- and Polyfluoroalkyl Substances 13
    4.2 Subsurface Soil/Fill Investigation 13
        4.2.1 Field Observations 13
        4.2.2 Volatile Organic Compounds 13

4.2.3 Semi-Volatile Organic Compounds 13
4.2.4 Metals 14
4.2.5 Polychlorinated Biphenyls 14
4.2.6 Pesticides and Herbicides 14
4.2.7 Per- and Polyfluoroalkyl Substances 14
4.3 Groundwater Investigation 15
4.3.1 Field Observations 15
4.3.2 Volatile Organic Compounds 15
4.3.3 Semi-volatile Organic Compounds 15
4.3.4 Metals 15
4.3.5 Polychlorinated Biphenyls 15
4.3.6 Pesticides and Herbicides 16
4.3.7 Per- and Polyfluoroalkyl Substances 16
4.4 Soil Vapor Investigation 16
4.5 RI Community Air Monitoring Plan (CAMP) Results 16
4.6 Data Usability Summary 16
4.7 Constituents of Concern (COCs) 18

5. Conceptual Site Model 19
5.1 Soil Quality 19
5.1.1 Surface Soil 19
5.1.2 Subsurface Soil 19
5.2 Groundwater Quality 20
5.3 Soil Vapor and Air Quality 20

6. Fate and Transport of COCs 21
6.1 Fugitive Dust Generation 21
6.2 Volatilization 21
6.3 Surface Water Runoff 21
6.4 Leaching 21
6.5 Groundwater Transport 22
6.6 Exposure Pathways 22

7. Qualitative Exposure Assessment 23
7.1 Human Health Exposure Assessment 23
7.1.1 Receptor Population 23
7.1.2 Contaminant Sources 24
7.1.3 Contaminant Release and Transport Mechanisms 24
7.1.4 Point of Exposure 24
7.1.5 Route of Exposure 24
7.1.6 Exposure Assessment Summary 25
7.2 Fish and Wildlife Impact Assessment (FWIA) 25
7.3 Qualitative Off-Site Exposure Assessment 25

8. Remedial Alternatives Analysis Evaluation 27
8.1 Remedial Action Objectives 27
8.2 General Response Actions 28

8.3 Standards, Criteria, and Guidance 28
8.3.1 Chemical-Specific SCGs 29
8.4 Evaluation of Alternatives 29
8.5 Anticipated Future Land Use Evaluation 30
8.6 Comparison of Remedial Alternatives 32
8.6.1 Alternative 1 - No Further Action 33
8.6.2 Alternative 2 – Restricted Residential Use (Track 4) Cleanup 34
8.6.3 Alternative 3 - Unrestricted Use (Track 1) Cleanup 36
8.7 Recommended Remedial Measure 37
9. RI/AAR Summary and Conclusions 39
10. References 40

Tables

1. Summary of RI Sampling and Analytical Program
2. Summary of Groundwater Elevations and Monitoring Well Construction Details
3. Summary of RI Surface Soil/Fill Analytical Data
4. Summary of Phase II and RI Subsurface Soil/Fill Analytical Data
5. Summary of RI TCLP Analytical Data
6. Summary of RI Groundwater Analytical Data
7. Summary of RI Soil Vapor and Outdoor Air Analytical Data
8. Standards, Criteria, and Guidance (SCGs)
9. Cost Estimate for Restricted Residential Use (Track 4) Alternative
10. Cost Estimate for Unrestricted Use (Track 1) Alternative
11. Comparison of Remedial Alternatives

Figures

1. Site Location and Vicinity Map
2. Site Plan (Aerial)
3. Historic & RI Investigation Locations
4. Historic & RI Soil Investigation Locations and Exceedances
5. Groundwater Isopotential Map
6. Alternative 2: Track 4 Restricted-Residential Cleanup
7. Alternative 3: Track 1 Unrestricted Cleanup

Appendices

A. Project Photolog
B. Phase II & RI Borehole/Test Pit Logs and Well Completion Details
C. Laboratory Analytical Data Packages
D. Groundwater Field Forms
E. CAMP Summary
F. Data Usability Summary Report (DUSR)
G. Fish and Wildlife Impact Assessment

Certification

I, Thomas H. Forbes, certify that I am currently a NYS registered professional engineer and that this April 2025 Remedial Investigation (RI) Alternative Analysis (AA) Report for the North Aud Block site, on a portion of 130 Main Street, Buffalo, New York was prepared in accordance with applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Thomas H. Forbes, P.E.		
NYS Professional Engineer #070950-1	Date	Signature

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

1. Introduction

This Remedial Investigation/Alternatives Analysis (RI/AA) Report has been prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux), on behalf of North Aud Owner LLC, for the North Aud Block site (Site), located on a portion of 130 Main Street, City of Buffalo, Erie County, New York (see Figures 1 and 2).

North Aud Owner LLC elected to pursue investigation, cleanup, and redevelopment of the Site under the New York State Brownfield Cleanup Program (BCP) and executed a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) on August 27, 2024 (Index No. C915406-06-24). The Remedial Investigation (RI) Work Plan was approved by the NYSDEC with the concurrence of the New York State Department of Health (NYSDOH) on November 20, 2024. Roux performed RI activities at the Site between February 2025 and April 2025.

1.1 Background

The Site consists of a 1.87-acre portion of a greater parcel addressed at 130 Main Street (SBL No. 111.17-14-11), Buffalo, Erie County, New York. The Site is vacant land and covered with grass, light vegetation, and stone. At the time of the RI, the Site was being used for building material storage for an adjacent ongoing active construction project (Gateway Office Building). The southern portion of the Site is developed with three structures associated with the Ice at Canalside, including a 2,012-square-foot (SF) metal & fabric building used as a ticketing office, a 143-SF metal outbuilding used as restrooms and a 156-SF metal outbuilding used as a snack shack. Small areas of the Site are covered with concrete sidewalks/stairs associated with the adjacent ice rink. A wooden/sheet pile retaining wall is located proximate to the north, east, and west boundaries of the Site and a smaller concrete wall is located near the western Site boundary. A chain link fence surrounds the Site.

Based on historic records and Sanborn Fire Insurance Maps, the Site was used in residential, commercial, and industrial capacities between at least 1889 and 1939. The Site was developed with numerous commercial buildings and former sections of existing streets including Pearl, Commercial, and Lloyd Streets. Noteworthy commercial and industrial uses during this time included a glue factory, a ship chandlers (including a machine shop and a rigging and sail facility), a dental manufacturer, and a paint company on the north/central portion of the Site; a tin shop, machine shop, and another paint company on the western portion of the Site, and a shoe factory on the southeastern portion of the Site. In addition, as further discussed below, portions of the Erie Canal and adjoining slips were located proximate to the Site, which have since been backfilled.

In 1939, existing buildings, streets, and portions of the former Erie Canal between Lower Terrace Street, Marine Drive, Commercial Street, and Main Street were demolished and backfilled for construction of the Buffalo Memorial Auditorium (“The Aud”). The Site subject to this BCP Application was developed with the northern portion of the Aud. The Aud was used as an indoor athletic arena/concert venue until 1996. The Aud remained unused between 1996 and 2009, when the building was demolished.

During the 2009 demolition of the Aud and its foundations, some soil/fill was likely removed from the Site; however, no remedial activities were undertaken and, as further discussed below, a substantial mass of fill materials remain on-Site containing concentrations of regulated contaminants significantly exceeding 6 NYCRR Part 375 Restricted-Residential Soil Cleanup Objectives (RRSCOs) and thereby representing a source of contamination.

The Site has remained mostly vacant since the Aud's demolition in 2009. Aerial photos indicate the Site has been used as a storage/contractor parking area for at least the last decade. Also, records indicate that in 2014, portions of the Erie Canal were excavated/widened immediately south of the Site. The re-established canals were used as an ice rink (The Ice at Canalside) during the winter months since 2014. In 2015, three small former temporary structures, likely associated with the ice rink, were constructed in the southern portion of the proposed BCP Site. By 2016, the former structures were replaced by the three existing structures associated with the ice rink. As part of this redevelopment project, the existing on-Site buildings will be removed.

As further discussed below, historic Site uses and the presence of fill material remaining at the Site from unknown origins have resulted in environmental impacts at the Site. Details of the previous investigations are presented in Section 1.2 below.

1.2 Previous Investigations

1.2.1 July 2020 – Environmental Site Review Addendum

Sienna Environmental Technologies (Sienna) completed an Environmental Site Review Addendum for the Site in July 2020. Sienna references a subsurface investigation with soil sampling analysis completed by SJB Services Inc. in June 2020. Based on SJB's investigation, five soil borings (B-1 through B-5) were advanced to 36 feet below ground surface (fbgs). Fill material was encountered from depths ranging from 4 fbgs to 7 fbgs. The soil/fill was variable and consisted of silty sand, sandy silt, silty clay, and gravel, with crushed stone, cobble, brick, cinders, concrete, coal, organics, and possible fly ash. Laboratory analytical results revealed mercury at B-1 at a concentration of 0.205 milligrams per kilogram (mg/kg), exceeding its Unrestricted Soil Cleanup Objective (USCO) (0.18 mg/kg), and mercury was also identified at B-4 at a concentration of 1.62 mg/kg, exceeding the RRSCO (0.81 mg/kg).

1.2.2 April 2023 – Phase I ESA

Hilllman Consulting (Hillman) completed an Environmental Site Assessment (ESA) in the area of the proposed BCP Site in April 2023. Hillman Consulting identified the following recognized environmental condition (REC):

- Based on the results of the SJB soil investigation summarized in the Sienna Environmental Site Review Addendum, Hillman concluded that the verified presence of historic fill material within the Property is considered a REC due to the detection of mercury in the fill above USCOs.

Based on an investigation figure, the soil borings by SJB used as the basis of the stated REC, were all located within the boundaries of the proposed BCP Site. Supplemental investigations have identified

similar impacted fill material throughout the proposed BCP Site (see Test Pit Investigation, discussed below). Therefore, the REC identified in this ESA is applicable to the North Aud Block BCP Site.

1.2.3 May/June 2023 – Test Pit Investigation

Benchmark Civil/Environmental Engineering & Geology, PLLC (now Roux Environmental Engineering and Geology, D.P.C.) completed a Test Pit Investigation on the Site in May/June 2023. Twenty-three test pits (designated as TP-1 through TP-23) were advanced at the Site on May 18, 2023 and June 20, 2023. Ten samples (T-4 1-3 ft, TP-4 3-5 ft, TP-7 2-4 ft, TP-8 2-4 ft, TP-10 24 ft, TP-12 1-3 ft, TP-18 1-3 ft, TP-19 1-3 ft, TP-20 4-6 ft, TP-21 1-3 ft) were submitted for chemical analysis of polycyclic aromatic hydrocarbons (PAHs) and Resource and Recovery Act (RCRA) metals. Select samples were also submitted for polychlorinated biphenyls (PCBs). Results of the investigation are summarized below:

- Urban fill materials were identified across the Site to depths ranging from 2 fbgs to greater than 7 fbgs.
- PAHs were identified at concentrations exceeding RRSCOs TP-12.
- Metals, including arsenic, barium, lead, and mercury, were identified exceeding USCOs and/or RRSCOs at TP-4, TP-8, TP-12, TP-18, TP-19, TP-20, and TP-21. Arsenic was detected up to 107 mg/kg, exceeding its RRSCO (16 mg/kg) at TP-18; barium was detected up to 9,720 mg/kg, exceeding its RRSCO (400 mg/kg) at TP-21; lead was detected up to 11,400 mg/kg, exceeding its RRSCO (400 mg/kg) at TP-18; and mercury was detected up to 6.4 mg/kg, exceeding its RRSCO (0.81 mg/kg) at TP-18.
- PCBs were not detected at concentrations above laboratory detection limits.

The Site was entered into the BCP based on the soil/fill environmental impacts identified in the previous studies discussed above. Table 1 summarizes the samples collected and analyzed during the Phase II investigations and Phase II soil analytical results are summarized in Table 4. Phase II investigation locations and results are shown on Figures 3 and 4.

1.3 Purpose and Scope

This RI/AA Report has been prepared on behalf of North Aud Owner LLC to describe and present the findings of the RI activities and evaluate remedial alternatives for the Site.

This report contains the following sections:

- Section 2.0 presents the approach for the RI
- Section 3.0 describes the physical characteristics of the Site as they pertain to the investigation results
- Section 4.0 presents the investigation results by media
- Section 5.0 presents the conceptual site model
- Section 6.0 describes the fate and transport of the contaminants of concern (COCs)
- Section 7.0 presents the qualitative exposure assessment
- Section 8.0 evaluates remedial alternatives for the Site

- Section 9.0 presents the RI/AAR summary and conclusions
- Section 10.0 provides a list of references

The RI work was completed in accordance with the approved RI Work Plan; however, Roux notes the following approved deviations from the Work Plan in consultation with the NYSDEC:

- Due to site conditions and accessibility, proposed test pits TP-26, TP-27, TP-29, TP-35, and TP-36 were completed as soil borings RISB-5 (TP-29), RISB-6 (TP-26), RISB-7 (TP-27), RISB-8 (TP-35), RISB-9 (TP-36).
- At the request of the NYSDEC, soil vapor sampling locations SV-1 and SV-2 were completed at the bottom elevation beneath the existing retaining wall at the site.
- Due to being temporary buildings with construction above grade, no sub-slab vapor or indoor air samples were collected from the main existing building at the Site.
- Due to the drill rig inaccessibility in the area of RISB-1 on the southeastern portion of the Site, the boring was completed using hand tools (i.e., hand auger).
- Test pits TP-28, TP-30, TP-31, and TP-33 were unable to be completed to a total depth of at least 15 feet due to these locations being inundated with groundwater. In addition, TP-32 was unable to be completed to a total depth of at least 15 feet due to a steel pipe, presumably a disconnected/inactive utility, encountered within the test pit at eight fbgs.

2. Remedial Investigation Approach

The RI scope of work focused on further defining the nature and extent of contamination on the BCP Site and obtaining data of sufficient quantity and quality to perform the remedial alternatives evaluation in accordance with NYSDEC DER-10. Field activities included: excavation of test pits (TPs), advancement of soil borings (SBs); monitoring well (MW) installation; soil vapor (SV) sampling; surface and subsurface soil/fill sampling; groundwater sampling; and collection of field and hydrogeologic data. The RI tasks were performed in accordance with the approved RI Work Plan (November 2024).

Field team personnel collected environmental samples (i.e., surface and subsurface soil/fill, soil vapor, and groundwater) in accordance with the rationale and protocols described in the Sampling and Analysis Plan (SAP) of the Quality Assurance Project Plan (QAPP) (included in the RI Work Plan). Representative environmental samples were collected during the RI using dedicated sampling devices and were placed in pre-cleaned laboratory provided sample containers, cooled to 4ºC in the field, and transported under chain-of-custody command to a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) certified analytical laboratory.

Samples for chemical analysis were analyzed in accordance with United States Environmental Protection Agency (USEPA) SW-846 methodologies to meet the definitive-level data requirements. A Category B deliverable package was provided for each sample delivery group to allow independent third-party data validation and provide defensible data. Analytical results were evaluated by a third-party data validation expert in accordance with provisions described in the QAPP. The investigation activities are described below. Table 1 summarizes the samples collected and analyzed during the RI, Tables 3 through 7 summarize Phase II and RI analytical data and Figures 3 and 4 present the RI sample locations. Appendix A contains photographs of field activities.

2.1 RI Soil/Fill Investigation

A soil/fill investigation was completed across the Site to supplement the previous Phase II environmental data and to further investigate contamination at the Site. The soil/fill investigation included test pit excavations, soil boring advancement, and collection of surface and subsurface soil/fill samples. Representative samples were described in the field by qualified Roux personnel, scanned for total volatile organic vapors with a calibrated Photovac 3000 photoionization detector (PID) equipped with a 10.6 eV lamp (or equivalent), and characterized for impacts via visual and/or olfactory observations. Figure 3 presents the RI and Phase II sample locations.

2.1.1 Surface Soil/Fill Investigation

A total of 10 surface soil/fill samples were collected across the Site (SS-1 through SS-10) as shown on Figure 3. Surface soil samples were collected on February 11, 2025, February 13, 2025, and February 14, 2025. Surface soil samples were collected from 0 to 2 inches below ground surface. If the area was vegetated the sod/vegetation was removed prior to sample collection.

2.1.2 Surface Soil/fill Sample Collection and Analyses

Surface soil/fill samples were collected using dedicated stainless steel sampling tools and were placed in pre-cleaned laboratory provided sample bottles, cooled to 4ºC in the field, and transported under chain-of-custody command to a NYSDOH ELAP-certified analytical laboratory. All 10 surface soil samples were analyzed for Target Compound List (TCL) semi-volatile organic compounds (SVOCs) including 1,4-dioxane plus tentatively identified compounds (TICs), Target Analyte List (TAL) metals, and pesticides. In addition, select samples were also analyzed PCBs, herbicides, and per- and polyfluoroalkyl substances (PFAS). No surface soil samples were analyzed for volatile organic compounds (VOCs) as no PID readings above background (0.0 parts per million (ppm)) were identified.

2.1.3 Subsurface Soil/Fill Investigation

A total of 21 investigation locations including 15 soil borings (RISB-1 through RISB-9, MW-1 through MW-6), and six test pits (TP-28, TP-30, TP-31 through TP-34) were completed across the Site. MW-1 through MW-6 were converted into an overburden monitoring wells as further discussed below.

Soil borings were completed between March 11, 2025 and March 17, 2025, and test pits were completed on March 11, 2025, and March 12, 2025. Soil borings were advanced with a track-mounted direct-push rig to depths ranging between 12 fbgs and 24 fbgs except where equipment refusal was encountered during the work (i.e., concrete encountered at RISB-1 caused refusal at 2.5 fbgs).

Test pits were advanced with an excavator to depths ranging between 7 fbgs and 15 fbgs. As discussed above, large volumes of groundwater limited test pit depths at certain locations.

Soil boring cuttings from locations with monitoring wells were containerized in labeled 55-gallon drums that are stored on-Site. Backfilling of test pits and soil borings (non-well locations) was completed by placing soil/fill back to its original location by backfilling with removed soil/fill consistent with the order that it was removed.

Retrieved soil/fill samples allowed for visual, olfactory, and PID assessment of subsurface conditions. Subsurface soil/fill samples were collected for laboratory analysis per the approved RI Work Plan (see Table 1). Soil boring and test pit logs are provided in Appendix B.

2.1.4 Subsurface Soil/Fill Sample Collection and Analyses

As summarized on Table 1, a total of 35 RI subsurface soil/fill samples and 14 Phase II soil/fill samples were collected during investigation activities. Subsurface soil/fill samples were collected using dedicated stainless steel sampling tools and were placed in pre-cleaned laboratory provided sample bottles, cooled to 4ºC in the field, and transported under chain-of-custody command to a NYSDOH ELAP-certified analytical laboratory.

RI subsurface soil/fill samples were analyzed for TCL SVOCs, including 1,4-dioxane, plus TICs, TAL metals, and pesticides. Select subsurface soil/fill samples were also analyzed for TCL VOCs plus TICs, PCBs, herbicides, and PFAS.

All Phase II soil/fill samples were analyzed for PAHs. Select soil/fill samples were also analyzed for TCL VOCs, PCBs, and RCRA metals.

Roux notes that certain RI soil/fill samples (i.e., RISB-2, RISB-3, TP-34, and TP-32) were analyzed by the laboratory for Toxicity Characteristic Leaching Procedure (TCLP) lead due to elevated total lead concentrations in the samples.

Five additional subsurface soil/fill samples (WC-1 through WC-5) were analyzed for waste characterization parameters including TCLP VOCs, TCLP SVOCs, TCLP Metals, PCBs, ignitability, corrosivity, and reactivity.

All RI samples were collected and analyzed in accordance with USEPA SW-846 methodology with equivalent NYSDEC Category B deliverables to allow for independent third-party data usability assessment.

2.2 Groundwater Investigation

Roux personnel provided oversight for the installation of six groundwater monitoring wells, identified as MW-1 through MW-6. These monitoring wells were installed to investigate on-Site groundwater flow direction and quality. Details of the well installation, well development, and groundwater sampling are provided below. Figure 3 presents the location of the monitoring well network.

2.2.1 RI Monitoring Well Installation

Groundwater monitoring wells were installed after completion of soil boring advancement using a Geoprobe Model 6620 DT drill rig on February 11, 12, 13,14, and 17, 2025.

Monitoring construction details are presented in Table 2. Locations of the monitoring wells are presented on Figure 3.

2.2.2 Monitoring Well Development

The newly installed monitoring wells were developed on February 20, 2025 in accordance with the approved work plans and Roux and NYSDEC protocols. Development was completed with PVC bailers via surge and purge methodology. Field parameters including pH, temperature, turbidity, dissolved oxygen (DO), oxidation reduction potential (ORP), and specific conductance were measured during development until they became relatively stable. Stability was defined as variation between measurements of approximately 10 percent or less with no overall upward or downward trend in the measurements; or a minimum of three well volumes. Development waters were containerized in 55-gallon drums, labeled, and stored on-site in accordance with the investigation derived waste (IDW) section of the approved RI Work Plan.

2.2.3 Groundwater Sample Collection and Analyses

Groundwater samples were collected on February 27, 2025 from each of the six overburden wells, in accordance with the NYSDEC-approved RI Work Plan. Groundwater samples were collected using a submersible pump with dedicated pump tubing following low-flow/minimal drawdown purge and sample collection procedures. Field measurements for pH, temperature, turbidity, DO, ORP, specific conductance and water levels, as well as visual and olfactory field observations, were periodically recorded and monitored for stabilization. All collected groundwater samples were placed in pre-cleaned, pre-preserved laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to a NYSDOH ELAP-certified analytical laboratory.

As summarized on Table 1, all six groundwater samples were analyzed for TCL VOCs plus TICs, TCL SVOCs plus TICs, TAL metals (total and dissolved), PCBs, pesticides, herbicides, 1,4-dioxane, and PFAS. All sampling was performed in accordance with USEPA SW-846 methodology with equivalent NYSDEC Category B deliverables to allow for independent third-party data usability assessment.

2.3 Soil Vapor Investigation

Five soil vapor samples, SV-1 through SV-5, were collected from the Site to evaluate the potential for soil vapor intrusion (SVI) risks for future on-site buildings, and to complete a qualitative off-site exposure assessment.

Each soil vapor sampling probe was installed using specialized stainless-steel soil probe rods. Soil boreholes were advanced using ¾-inch inside diameter steel rods. The steel rod was equipped with an anchor point at the driving end of the rod. The anchor point was connected to the sampling screen and tubing on the inside of the steel rod. Once the steel rod was advanced to the target depth, the steel rod was retracted, leaving the anchor point, sampling screen and sampling tubing within the borehole annulus. Glass beads were poured around the sampling screen in a manner to cover the entire length of the sampling screen. Bentonite or bentonite/soil mixture was placed above the glass beads to the ground surface to create a seal to prohibit infiltration of ambient air into the sampling area.

Once the sample probes were installed, the probe and tubing was purged (three volumes) using a calibrated syringe as required by NYSDOH guidance and helium tracer gas was used during the purging phase to ensure that the probes were well sealed. Samples were collected over an approximate 4-hour period.

The soil vapor samples were collected from across the Site. Specifically, SV-1 was collected from northwest corner of the Site, SV-2 was collected from the northern central portion of the Site, SV-3 was collected proximate to the existing building on the southwestern portion of the Site, SV-4 was collected from the southeast portion of the Site, and SV-5 was collected from the center of the Site. Soil vapor sample locations are shown on Figure 3. One ambient outdoor air (OA) sample was also collected concurrent with the soil vapor samples. The outdoor field-located air sample was collected from ground level at an upwind location at the Site, as determined on the day of soil vapor sampling activities (Figure 3). The sampling was completed in general conformance with the NYSDOH Soil Vapor Intrusion Guidance and Roux's Ambient Air and Sub-Slab Vapor Sampling Field Operating Procedures. SV and OA

samples were sent to a NYSDOH-approved laboratory for analysis of USEPA TCL VOCs in accordance with USEPA Method TO-15.

2.4 Field Specific Quality Assurance/Quality Control Sampling

In addition to the subsurface soil/fill and groundwater samples described above, field-specific quality assurance/quality control (QA/QC) samples were collected and analyzed to ensure the reliability of the generated data as described in the QAPP and to support the required third-party data usability assessment effort. Site-specific QA/QC samples included matrix spikes, matrix spike duplicates, blind duplicates, and equipment and trip/field blanks.

2.5 Site Mapping

A Site map was developed for the RI based on Roux personnel field measurements and marked Site map with the locations of all soil borings, test pits, monitoring wells, and soil vapor/outdoor air point locations. Monitoring well elevations were measured by Roux's surveyor. An isopotential map showing the general direction of overburden groundwater flow was prepared based on water level measurements relative to survey points previously collected for the site by others (see Figure 5).

2.6 Decontamination & Investigation-Derived Waste Management

Every attempt was made to utilize dedicated sampling equipment during the RI, however, if non-dedicated equipment was required and/or used (e.g., spilt spoons) it was decontaminated with a non-phosphate detergent (i.e., Alconox®) and potable water mixture, rinsed with distilled water, and air-dried before each use in accordance with the field operating procedure (FOP).

Soil cuttings/spoils and development waters were containerized in 55-gallon drums, labeled, and temporarily stored on-Site in accordance with the approved RI Work Plan.

3. Site Physical Characteristics

The physical characteristics of the Site observed during the RI are described in the following sections.

3.1 General Site Features and Site Topography

The Site, currently mostly vacant/underutilized land (see Figure 2), is located in an urban area south of Upper Terrace Street between Main and Commercial Streets in the Canalside district of the City of Buffalo in Erie County, New York. The Site sits within a highly developed mixed-use residential, commercial, and recreational area of the City of Buffalo. To the north, the Site is bordered by a vacant portion of 130 Main Street, Seneca One (consisting of commercial space and residential apartments), a parking lot, Upper Terrace Street, and Interstate-190 (elevated). To the South of the Site sits the remaining portion of 130 Main Street, which includes an ice rink/recreational area/canal (The Ice at Canalside) and a commercial structure (Explore & More Museum), a vacant commercial property, and a portion of the former Erie Canal. East of the Site is a commercial property (hotel), a recreational area with a portion of the former Erie Canal, a vacant commercial property, and Main Street (including the above-ground portion of the Buffalo Metro Rail). On the west, the Site is bordered by parking lots, Commercial Street, and the Buffalo Skyway/New York State Route 5 (elevated).

The Site is generally flat lying on the central portion of the Site and includes areas of varying elevations proximate to BCP Site boundaries. Further, a wood retaining wall is present proximate to BCP property boundaries on north, east, and west portions of the Site, apparently in areas where the former Aud building was located. The surface of the Site is covered with stone and includes green areas. Precipitation (i.e., rain or melting snow) moves to the storm drains in the roadways via overland flow. Surface and shallow groundwater flow are likely affected by various cycles of development and filling, as well as utilities and foundations.

3.2 Geology and Hydrogeology

3.2.1 Overburden

The Site is located within the Lake Erie-Niagara River major drainage basin, which is typified by little topographic relief that gently slopes westward towards the Niagara River, except in the immediate vicinity of major drainage ways. According to the United States Department of Agriculture (USDA) Web soil survey, Site soils are characterized as Urban land (Ud). This soil is characterized as 80 percent urban land and 20 percent minor components. Soils within the City of Buffalo with the majority of soil surface covered by asphalt, concrete, buildings, or other impervious structures, typical of an urban environment, are characterized as urban land.

The overburden geology of the Site is generally described as stone/gravel cover material overlying urban fill materials to depths generally ranging between 1 fbgs and 8 fbgs, but as deep as 11.5 fbgs (MW-6), 12 fbgs (RISB-8), and 21 fbgs (RISB-4). Fill materials were generally noted to include cinders, ash, black fines, and fragments of brick, and concrete. Of note, coal was noted intermingled with fill at RISB-4, wood was noted at MW-1, MW-5, MW-6, RISB-2, RISB-3 and TP-20, and glass fragments were identified at

RISB-1, TP-12, TP-16, TP-17, TP-19, and TP-34. Native soil beneath the fill units was identified as mixtures of sand and/or silt.

3.2.2 Bedrock

Based on the bedrock geologic map of Erie County, the Site overlies the Onondaga and Bois Blanc Limestone Formation of the Middle Devonian Series. The Onondaga Formation is comprised of the Seneca, Morehouse, Clarence, and Edgecliff fossiliferous, cherty limestone members. Subsurface investigations completed during the Phase II and RI investigations did not encounter bedrock at the Site.

3.2.3 Hydrogeology

Water level measurements collected at overburden groundwater wells ranged from 4.83 fbgs to 14.35 fbgs. RI groundwater elevations collected from overburden wells on March 14, 2025 are shown on Figure 5. The isopotential map depicts overburden groundwater at the Site generally flowing toward the east or southeast. Table 2 summarizes the groundwater elevation data.

3.2.4 Hydraulic Gradients

Using well installation and water level measurements collected during the RI, the estimated overburden hydraulic gradient was calculated to range from 0.003 ft/ft (measured between MW-1 and MW-6) to 0.005 ft/ft (measured between MW-2 and MW-4). The RI data indicates a southeasterly gradient in the overburden across the majority of the Site. Further water level monitoring will be required to confirm these conditions.

4. Investigation Results By Media

The nature and extent of contamination at the Site was further characterized using soil/fill and groundwater samples collected and analyzed as part of the RI. Samples collected during the Phase II investigations were used to supplement this RI.

Appendix C contains laboratory analytical data packages for samples analyzed from the RI. Analytical data discussed in this section includes results from the Phase II investigations and RI data collected by Roux personnel. Tabulated analytical results are shown only for those parameters for which a value greater than the method detection limit and was detected at a minimum of one sample location.

Table 1 summarizes the sampling and analytical program employed under the RI. Surface and subsurface soil/fill, groundwater, and soil vapor analytical results are summarized on Tables 3 through 7.

4.1 Surface Soil/Fill Results

A total of 10 surface soil/fill samples were collected during the RI. Sample locations are shown on Figure 3. Surface soil results are summarized in Table 3 and Figure 4.

4.1.1 Volatile Organic Compounds

Surface soil/fill was not analyzed for VOCs as no PID readings above background (0.0 ppm) were identified.

4.1.2 Semi-Volatile Organic Compounds

SVOCs were detected at concentrations above method detection limits (MDLs) at 9 of the 10-surface soil/fill locations. The highest SVOC concentrations were multiple individual PAHs at concentrations above their respective USCOs at SS-7 and SS-10. We note that individual PAH concentrations at SS-7 and SS-10 also exceeded their respective RRSCOs. Estimated TIC concentrations ranged between 0.16 mg/kg and 214.1 mg/kg.

1,4-dioxane was not detected at concentrations above MDLs at any location.

4.1.3 Metals

Metals were detected at concentrations above MDLs at all surface soil/fill locations. A minimum of at least one of the following metals were detected above their respective USCOs at surface soil/fill locations SS-2, SS-4, SS-7, SS-8, and SS-10; barium, cadmium, copper, lead, manganese, mercury, nickel, and zinc. The highest metal concentrations, with exceedances of RRSCOs were at SS-10. Specifically, mercury (2.4 mg/kg) and barium (507 mg/kg) was identified above their respective RRSCOs.

4.1.4 Polychlorinated Biphenyls

PCBs were not detected at concentrations above MDLs at any surface soil/fill location.

4.1.5 Pesticides and Herbicides

Pesticides were detected above MDLs at two locations (SS-8 and SS-9). However, pesticides did not exceed USCOs at any surface soil/fill location. In addition, herbicides were not detected at concentrations above MDLs.

4.1.6 Per- and Polyfluoroalkyl Substances

SCOs have been developed for Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS). PFOA and PFOS were detected above MDLs at SS-1, SS-2, SS-4, SS-8 and SS-9, however concentrations do not exceed their USCOs (0.66 and 0.88 ug/kg respectively).

4.2 Subsurface Soil/Fill Investigation

A total of 36 subsurface soil/fill samples were collected during the RI. Sample locations are shown on Figure 3. Subsurface soil results are summarized in Table 4 and Figure 4. Boring and test pit logs are provided in Appendix B.

4.2.1 Field Observations

Fill material, identified across the Site, generally ranged in depths between 1 fbgs and 8 fbgs and was observed as deep as 11.5 fbgs (MW-6), 12 fbgs (RISB-8), and 21 fbgs (RISB-4). As discussed above, fill materials were generally noted to include cinders, ash, black fines, and fragments of brick, and concrete. Of note, coal was noted intermingled with fill at RISB-4, wood was noted at MW-1, MW-5, MW-6, RISB-2, RISB-3 and TP-20, and glass fragments were identified as intermingled with fill at RISB-1, TP-12, TP-16, TP-17, TP-19, and TP-34. Native soil beneath the fill units was identified as mixtures of sand and/or silt.

No odors or elevated PID readings above background (0.0 ppm) were identified at any RI or Phase II investigation locations. Phase II and RI soil boring and test pit logs are provided in Appendix B.

4.2.2 Volatile Organic Compounds

No VOCs were detected at concentrations above method detection limits (MDLs) in Phase II samples. Regarding the RI, 10 of the 36 RI locations had VOCs above MDLs; however, no VOCs exceeded their respective USCOs. Estimated TIC concentrations were either non-detect or concentrations were low level.

4.2.3 Semi-Volatile Organic Compounds

One or more individual SVOCs, primarily PAHs, exceeded USCOs at 6 of the 36 RI sample locations in RISB-6, TP-28, TP-32, TP-33, MW-3, MW-6 and 1 of the 14 Phase II sample locations in TP-12. Several PAHs also exceeded their respective RRSCOs. TIC concentrations were at minimal concentrations, the highest estimated concentration was 24.53 mg/kg. Results are summarized on Table 4.

1,4-dioxane was not detected at concentrations above MDLs at any location.

4.2.4 Metals

Metals were detected above MDLs at all 36 RI sample locations as well as all 14 Phase II sample locations. A minimum of at least one of the following metals (arsenic, barium, copper, lead, mercury, and zinc.) were detected above their respective USCOs at subsurface samples B-1 (0.5-6.5 ft), B-4 (0.5- 6.5 ft), TP-4 (1-3 ft), TP-4 (3-5 ft), TP-8 (2-4 ft), TP-12 (1-3 ft), TP-18 (1-3 ft), TP-19 (1-3 ft), TP-20 (4-6 ft), TP-21 (1-3 ft) RISB-4 (0-2 ft), RISB-5 (0-1 ft), RISB-6 (0.5-3 ft), RISB-7 (4-8 ft), RISB-8 (0.5-4 ft), RISB-9 (2-4 ft), TP-28 (0-2 ft), TP-31 (2-4 ft), TP-32 (2-3 ft), TP-33 (1-5 ft), TP-34 (0-4 ft), TP-34 (5-6 ft), MW-3 (0-2 ft), MW-4 (0.5-2 ft), MW-5 (2.5-4 ft) MW-6 (4-5 ft). RRSCO exceedances were identified at subsurface samples B-4 (0.5- 6.5 ft), TP-4 (1-3 ft), TP-12 (1-3 ft), TP-18 (1-3 ft), TP-19 (1-3 ft), TP-21 (1-3 ft), RISB-9 (2-4 ft), TP-31 (2-4 ft), TP-32 (2-3 ft), TP-33 (1-5 ft), TP-34 (5-6 ft), MW-4 (0.5-2 ft), and MW-5 (2.5-4 ft). Results are summarized on Table 4.

Total lead significantly exceeded its respective Part 375 RRSCO of 400 mg/kg at RI locations TP-32 (2-3 ft) with a concentration of 1,450 mg/kg and TP-34 (5-6 ft) with a concentration of 2,240 mg/kg. Total lead was also identified at concentrations significantly exceeding its RRSCO during the previous Phase II, including 2,780 mg/kg at TP-12 (1-3 ft), 11,400 mg/kg at TP-18 (1-3 ft), 1,640 mg/kg at TP-19 (1-3 ft), and 11,200 mg/kg at TP-21 (1-3 ft).

Due to the elevated total lead concentrations, RI samples TP-34, and TP-32 were analyzed for lead by TCLP. Additionally, to further assess the potential for characteristic hazardous levels of lead at previous Phase II investigation locations TP-18 and TP-21, additional fill samples were collected and analyzed for TCLP lead during the RI from the immediate areas of TP-18 (RISB-2) and TP-21(RISB-3). As summarized on Table 5 and Figure 4, the TCLP lead concentration of 9.1 mg/L identified at RISB-2 at the 1-4 ft interval exceeds the characteristic hazardous waste threshold for lead. TCLP lead concentrations were significantly below the characteristic hazardous waste threshold of 5 mg/L in TP-34, TP-32, and RISB-3. Note that most fill material samples with elevated total lead concentrations were noted to include ash/cinders.

4.2.5 Polychlorinated Biphenyls

No PCBs were detected above MDLs. Results are summarized on Table 4.

4.2.6 Pesticides and Herbicides

Pesticides were detected above MDLs at 7 of the 36 RI sample locations analyzed for pesticides. Pesticide 4,4'-DDT exceeded its USCO (0.0033 mg/kg) at RISB-6 (0.5-3 ft, 0.0096 mg/kg), TP-32 (2-3 ft, 0.0068 mg/kg), TP-33 (1-5 ft, 0.0056 mg/kg), and MW-6(4-6 ft, 0.029 mg/kg). Herbicides were not detected above MDLs at any location. Results are summarized on Table 4.

4.2.7 Per- and Polyfluoroalkyl Substances

PFAS were detected at 13 of the 16 RI sample locations analyzed for PFAS. PFOA and PFOS did not exceed their respective USCOs at any location. Results are summarized on Table 4.

4.3 Groundwater Investigation

Roux personnel provided oversight for the installation of six overburden groundwater monitoring wells, identified as MW-1 through MW-6, The monitoring wells were sampled, and water level measurements were collected to investigate on-Site groundwater quality and flow. Table 6 presents a comparison of the detected groundwater parameters to respective NSYDEC TOGS 1.1.1 Groundwater Quality Standards/Guidance Values (GWQS/GV). Groundwater samples were collected in accordance with the work plan and analyzed in accordance with Table 1. Laboratory analytical data packages are provided in Appendix C.

4.3.1 Field Observations

No visual or olfactory concerns were identified during groundwater well installation or development. Groundwater field forms are included in Appendix D.

4.3.2 Volatile Organic Compounds

As summarized on Table 6, VOCs were either not detected at concentrations above MDLs or VOC concentrations were significantly below their respective GWQS. No VOC TICs were identified at concentrations above laboratory detection limits.

4.3.3 Semi-volatile Organic Compounds

SVOCs were detected above MDLs at 2 of the 6 sample locations (MW-1, MW-6). SVOCs were not detected at concentrations above GWQS at any location. SVOC TICs were detected at one sample location (MW-3) at a total estimated concentration of 180 ug/L.

1,4-dioxane was analyzed via EPA Method 8270 Selective Ion Monitoring (SIM). 1,4-dioxane was detected above its MDL at 3 of the 6 sample locations, and was also in the blank, but the concentrations identified were below GWQS.

4.3.4 Metals

Total metals were detected above MDLs at all 6 sample locations. With exception to a minor total lead concentration of 36 ug/L at MW-5, which slightly exceeds its GWQS of 25 ug/L, metals were either reported as non-detect or at concentrations below GWQS/GV, with the exception of naturally occurring minerals, including iron, magnesium, manganese, and sodium.

Dissolved metals concentrations were generally lower in comparison to total metals, and exceedances in dissolved samples were limited to naturally occurring minerals, magnesium, manganese (also identified in the equipment blank), and sodium. We note that dissolved lead at MW-5 was below its GWQS..

4.3.5 Polychlorinated Biphenyls

PCBs were not detected above MDLs at any sample location.

4.3.6 Pesticides and Herbicides

Pesticides were detected above MDLs at 1 of the 6 sample locations; however, no pesticides were detected above GWQS. No herbicides were detected above MDLs.

4.3.7 Per- and Polyfluoroalkyl Substances

PFAS were analyzed via EPA Method 1633. PFAS were detected above MDLs at each of the six sample locations. PFOA slightly exceeded its GWQS (6.7 ng/L) at MW-6 with a concentration of 12 ng/L. No other PFOA or PFOS exceedances were identified. Based on the low-level concentration identified, PFOA is not a constituent of concern.

4.4 Soil Vapor Investigation

Multiple VOCs were detected in soil vapor samples, including 1,1,2-trichlorotrifluoroethane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,3-dichlorobenzene, 1,4-dioxane, 2,2,4-Trimethylpentane, 4-ethyltoluene, acetone, benzene, carbon disulfide, carbon tetrachloride, chlorodifluoromethane, chloroform, chloromethane, cyclohexane, dichlorodifluoromethane, ethylbenzene, m,p-xylene, methyl ethyl ketone, n-butane, n-heptane, n-hexane, n-propylbenzene, o-xylene, styrene, tetrachloroethene, toluene, and trichlorofluoromethane (see Table 7). New York State does not currently have promulgated guidance values for soil vapor air sampling results. Generally low-level concentrations of VOCs were observed in the soil vapor and outdoor air samples.

Roux completed two SV sampling events, one on February 26, 2025, the second on April 2, 2025. During both events, canister flow issues were noted at certain sample locations, likely associated with wet conditions at the time of sampling activities. Specifically, SV samples SV-1 and SV-2 were located in low elevation areas of the Site that were wet during both sampling events, which likely caused the canister flow issues and ultimately resulted in the rejection of SV-2 results and possible bias of SV-1 concentrations (see Section 4.6 below for additional information). Of note, VOCs are not constituents of concern in soil and/or groundwater and therefore less likely a concern in soil vapor.

4.5 RI Community Air Monitoring Plan (CAMP) Results

Community air monitoring was performed during intrusive remedial activities on February 11, 2025 through February 14, 2025, and on February 17, 2025. Intrusive activities completed during this time consisted of the advancement of soil borings, well installation, soil vapor point installation, and test pit excavations. The results conformed to the Community Air Monitoring perimeter particulate requirement (<150 ug/m^3) and the organic vapor requirement (<5 ppm) for the duration of intrusive RI activities. CAMP data is included in Appendix E.

4.6 Data Usability Summary

In accordance with the RI Work Plan, the laboratory analytical data from this investigation was assessed and, as required, submitted for independent review. Data Validation Services located in North Creek, New York performed the data usability summary assessment, which involved a review of the summary form

information and sample raw data, and a limited review of associated QC raw data. Specifically, the following items were reviewed:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate Recoveries
- Field Duplicate Correlation
- Preparation/Calibration Blanks
- Control Spike/Laboratory Control Samples
- Instrumental IDLs
- Calibration/CRI/CRA Standards
- ICP Interference Check Standards
- ICP Serial Dilution Correlations
- Sample Results Verification

The Data Usability Summary Report (DUSR) was conducted using guidance from the USEPA Region 2 validation Standard Operating Procedures, the USEPA National Functional Guidelines for Data Review, as well as professional judgment.

In summary, results are usable either as reported or with minor qualification with the following exceptions:

- Soil Vapor
    - Results for SV-2 were rejected due to flow canister issues and results for SV-1 were qualified as estimated (biased low) due to similar flow canister issues.
- Soil
    - Chloroform in several soil samples was edited to non-detect due to its presence in the associated blank. Results edited to non-detect were below USCOs.
    - Pesticide analysis for several samples was completed under tenfold to twentyfold dilution and pesticide analytes were edited to non-detect based on the updated reporting limits. For soil sample MW-4 (0.5-2.5 ft), 4,4-DDT was detected above USCOs but edited to non-detect. No other pesticides edited to non-detect had previously been detected above USCOs.
    - SVOC analysis for several soil samples was completed under fivefold dilution and SVOC TICs were edited to non-detect based on the updated reporting limits.
- Groundwater
    - 1,4-dioxane was edited to non-detect at MW-2, MW-4, and MW-6 due to its presence in the associated blank. Results edited to non-detect were below GWQS.

- Several SVOC TICs were edited to non-detect due to their presence in the associated blank.
- 4,4-DDT was edited to non-detect at MW-2, MW-4, MW-5, and MW-6 due to its presence in the associated blank. Results edited to non-detect were below GWQS.
- Total zinc was edited to non-detect at MW-2 and dissolved zinc was edited to non-detect at MW-4 due to its presence in the associated blank. Results edited to non-detect were below GWQS.

Additional qualifications of the data have been incorporated into the summary data tables. Appendix F includes the DUSR.

4.7 Constituents of Concern (COCs)

Based on the findings of the RI and previous investigations, and the planned redevelopment of the Site, the COCs are presented below:

Soil/Fill: PAHs, Metals

Groundwater: None

Soil Vapor: None

5. Conceptual Site Model

This Conceptual Site Model summarizes impacts to the soil, groundwater, and soil vapor at the Site to define the overall extent of contamination across the Site. This Section is a summary of all analytical and observational results to date, including the results of the RI, as discussed in Section 4.

5.1 Soil Quality

Soil/fill was characterized during the RI to further assess known contamination and determine the vertical and horizontal extent of soil contamination at the Site. The overburden at the Site consists of urban fill at ground surface or immediately underlying stone/gravel or topsoil to varying depths ranging between 1 and 21 fbgs overlying native sand/silty sand soil. No visual or olfactory impacts or elevated PID readings were identified at any surface or subsurface soil location, however, chemical exceedances were identified in several surface and subsurface soil samples collected from the fill layer, as further discussed below. No impacts were identified in the native soil.

5.1.1 Surface Soil

Surface soil samples were collected from the top two inches of soil/fill at locations across the Site. VOCs, PCBs, pesticides, herbicides, and PFAS were not detected above USCOs at any location. Individual PAHs were detected exceeding RRSCOs at SS-7 and SS-10, located in the northwest and central portions of the Site, respectively. Barium and mercury were also detected exceeding RRSCOs at SS-10.

The presence of PAHs and metals exceeding RRSCOs at SS-7 and SS-10 indicates that the surface soil in these areas does not qualify as cover material under a Restricted-Residential use scenario and will therefore need to be removed and properly disposed during remedial activities.

5.1.2 Subsurface Soil

Subsurface soil samples were collected from urban fill material and native soil at locations across the Site. VOCs, PCBs, herbicides, and PFAS were not detected above USCOs at any location and pesticides were not detected above RRSCOs. Individual PAHs were detected in the fill exceeding RRSCOs at TP-12, RISB-6, TP-28, TP-32, TP-33, MW-3, and MW-6 at varying depths. Further, metals including arsenic, barium, lead, and mercury were detected in the fill exceeding RRSCOs at B-4, TP-4, TP-12, TP-18, TP-19, TP-21, RISB-9, TP-31, TP-32, TP-33, TP-34, MW-4, and MW-5 at varying depths. The presence of PAH- and metals-impacted soil/fill above RRSCOs at several locations across the Site suggests widespread contamination that must be removed and properly disposed and/or covered to qualify for Restricted-Residential use.

Due to the elevated total lead concentrations (up to 11,400 mg/kg at TP-18) detected in the eastern portion of the Site, samples from RISB-2 (advanced in the location of TP-18), RISB-3 (advanced in the location of TP-21), TP-32, and TP-34 were analyzed for TCLP lead to determine whether the material in this area is characteristically hazardous for lead. Results indicated that the fill at RISB-2 is characteristically hazardous for lead with a TCLP concentration of 9.1 mg/L. The fill at RISB-3/TP-21, TP-32, and TP-34 was characterized as non-hazardous. The hazardous lead in fill material surrounding

RISB-2/TP-18 will need to be stabilized to remove the hazardous lead characteristic and disposed of off-site at a commercial landfill as a non-hazardous material.

5.2 Groundwater Quality

Six monitoring wells were installed, developed, and sampled to characterize on-site groundwater. No visual or olfactory impacts or elevated PID readings were identified at any of the monitoring wells during development or sampling. VOCs, SVOCs, PCBs, herbicides, and pesticides were not detected at concentrations exceeding their respective GWQS. Naturally occurring minerals (i.e., iron, magnesium, manganese, and sodium) were detected in total and dissolved metals analyses. These analytes are commonly found in groundwater and are not considered as COCs for the Site. Total lead was identified exceeding its GWQS at MW-5. However, dissolved lead was below its GWQS at MW-5, indicating that the elevated lead concentration was likely due to impacted soil/fill in the groundwater sample. PFOA was detected slightly exceeding its GWQS at MW-6; no other PFAS exceedances were detected in groundwater. Therefore, no COCs were identified in groundwater at the Site.

5.3 Soil Vapor and Air Quality

Several VOCs were detected at low levels in 4 of the 5 soil vapor samples collected from across the Site. All results were rejected at one soil vapor location (SV-2) due to canister flow issues resulting from wet sampling conditions. However, despite this data gap, the results collected from the remaining samples indicate that VOCs are not present at elevated concentrations in soil vapor at the Site. Additionally, there is no apparent source for soil vapor contamination as VOCs were not identified as COCs in soil or groundwater. Therefore, VOCs are not considered a COC in soil vapor.

6. Fate and Transport of COCs

The findings of the RI were used to evaluate the fate and transport of COCs in Site media. The mechanisms by which the COCs can migrate to other areas or media are briefly outlined below.

6.1 Fugitive Dust Generation

Volatile and non-volatile chemicals present in soil/fill can be released to ambient air as a result of fugitive dust generation. Impacted fill material is present on-Site and, as such, fugitive dust generation during intrusive activities related to remediation and redevelopment is considered a relevant potential short-term migration pathway.

Particulate monitoring in accordance with the approved CAMP will continue to be completed during intrusive activities and, if required, dust mitigation measures will be employed during future remediation and redevelopment.

6.2 Volatilization

Volatile chemicals present in soil vapor, soil/fill, and/or groundwater may be released to ambient or indoor air through volatilization either from or through the soil/fill underlying building structures. Volatile chemicals typically have a low organic-carbon partition coefficient (K_{oc}), low molecular weight, and a high Henry's Law constant.

No VOCs, were detected at concentrations above USCOs in subsurface soil/fill or above GWQS in groundwater, and low-level concentrations of VOCs were detected in soil vapor samples from across the Site. Accordingly, volatilization from subsurface VOC-impacted media is not considered a relevant migration pathway at the Site.

6.3 Surface Water Runoff

Although the potential for soil particle transport due to surface water runoff is low, it is considered a short-term migration pathway for the Site. The Site has well-drained soil/fill and is covered primarily with gravel or green space. Elevated PAHs and metals were detected in the shallow soil/fill.

Under the reasonably anticipated future mixed use scenario, the Site will be used for residential and commercial purposes and will be primarily covered by hardscape (asphalt, buildings, etc.). Although storm water runoff during excavation activities is possible during the future use scenario, erosion controls are typical construction practice and would be implemented in strict accordance with an Erosion Control Plan for remedial activities. Therefore, surface water runoff is not a relevant pathway.

6.4 Leaching

Leaching refers to chemicals present in soil/fill migrating downward to groundwater because of infiltration of precipitation.

Based on the findings of the RI and historic Phase II activities, certain PAHs and metals were detected above RRSCOs in the fill intervals. The detected contaminants tend to adsorb strongly to soil, sediments, and particulate matter and are not expected to leach under natural conditions (i.e., neutral pH). This is supported by the differential detections of analytes in the soil and groundwater analytical results. Therefore, leaching of is not considered a relevant contamination pathway.

6.5 Groundwater Transport

As illustrated by Figure 5, overburden groundwater underlying the Site primarily migrates in a southeastern direction. The results of the groundwater samples collected as part of the RI indicated the presence of naturally occurring metals, total lead (one minor exceedance at one location), and PFOA (one minor exceedance at one location) exceeding GWQSs. Based on the lack of significant groundwater contamination at the Site, groundwater transport is not considered a pathway of concern.

6.6 Exposure Pathways

Based on the fate and transport analysis above, the pathways through which Site contaminants could potentially migrate to other areas or media are fugitive dust emissions via physical disturbance of soil particles during remedial measures and redevelopment. However, given the NYSDEC/NYSDOH requirements for dust monitoring and controls during intrusive activities at remedial program construction sites, it is unlikely that site-related contaminants would reach off-site receptors at significant exposure point concentrations.

7. Qualitative Exposure Assessment

7.1 Human Health Exposure Assessment

A qualitative exposure assessment consists of characterizing the exposure setting (including the physical environment and potentially exposed human populations), identifying exposure pathways, and evaluating contaminant fate and transport.

An exposure pathway describes the means by which an individual may be exposed to contaminants originating from a site. An exposure pathway has the following five elements:

- Receptor population
- Contaminant source
- Contaminant release and transport mechanism
- Point of exposure
- Route of exposure

An exposure pathway is complete when all five elements of an exposure pathway are documented; a potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway is not documented but could reasonably occur. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway does not exist in the present and will not exist in the future.

7.1.1 Receptor Population

The receptor population includes the people who are or may be exposed to contaminants at a point of exposure. The identification of potential human receptors is based on the characteristics of the Site, the surrounding land uses, and the probable future land uses. The Site is presently mostly vacant land with one on-Site building used for ice skate rentals. Under current Site use conditions, receptors would include site workers and visitors.

The reasonably anticipated future use of the Site is for mixed use commercial and residential, consistent with surrounding property use and Site zoning. Exposed receptors under the commercial future use scenario may be comprised of indoor workers, outdoor workers (e.g., groundskeepers or maintenance staff), and construction workers who may be employed at or perform work on the property. Site visitors/customers may also be considered receptors; however, their exposure would be similar to that of the indoor worker but at a lesser frequency and duration. Therefore, consideration of the indoor worker is conservatively protective of the site visitor.

7.1.2 Contaminant Sources

The source of contamination is defined as either the source of contaminant release to the environment (such as a waste disposal area or point of discharge) or the impacted environmental medium (soil, air, biota, water) at the point of exposure. Section 4.0 discussed the COCs present in Site media at elevated concentrations. Areas containing PAHs and metals above RRSCOs in soil/fill remain.

7.1.3 Contaminant Release and Transport Mechanisms

Contaminant release and transport mechanisms carry contaminants from the source to points where people may be exposed and are specific to the type of contaminant and site use. Contaminant release and transport mechanisms include:

- Fugitive dust migration from impacted soils during future planned intrusive work/remedial activities.
- Direct contact with impacted soil/fill and groundwater during future planned intrusive work/remedial activities.

7.1.4 Point of Exposure

The point of exposure is a location where actual or potential human contact with a contaminated medium may occur. There is potential for construction workers to be exposed to contaminated soil during planned intrusive work, remedial activities, or post-redevelopment maintenance activities. For both the current and future use scenarios, groundwater is not considered a relevant mechanism for exposure due to the availability of a local municipal potable water source; and a restriction on the use of groundwater in the City of Buffalo. Given planned remedial actions at the Site, the point of exposure in the future use scenario will be reduced and/or eliminated.

7.1.5 Route of Exposure

The route of exposure is the manner in which a contaminant actually enters or contacts the body (i.e., ingestion, inhalation, dermal absorption). Based on the types of receptors and points of exposure identified above, potential routes of exposure are listed below:

Current Use Scenario

- Environmental, Construction, and/or Outdoor Workers (short-term) – skin contact, inhalation, and incidental ingestion.

Future Use Scenario

- Indoor Occupant- none.
- Indoor Worker/Visitor/Vendor – none.
- Construction and Outdoor Workers (short-term) – direct contact, incidental ingestion and inhalation.

7.1.6 Exposure Assessment Summary

Based on the above assessment, the potential exposure pathways for the current and future use conditions are listed below.

Current Use Scenario

- Construction Worker/Environmental Personnel – direct contact, incidental ingestion, and inhalation of non-volatile COCs present in site-wide soil/fill.

Future Use Scenario

- Indoor Occupant – none.
- Indoor Worker/Visitor/Vendor – none.
- Construction and Outdoor Worker – direct contact, incidental ingestion and inhalation.

In most instances, these exposures can be readily mitigated through the use of personal protective equipment (PPE); proper soil/fill management during intrusive activities; and engineering controls including a cover system (i.e., placement of asphalt parking areas, a building, and landscape cover).

7.2 Fish and Wildlife Impact Assessment (FWIA)

The historical use/development of the Site has eliminated most native species. The Site is mainly populated by low-lying vegetation (grasses, weeds, and shrubs). There are no important plant habitats or endangered species identified for the area encompassing the Site.

The Site is slated for redevelopment in a mixed-use commercial and residential capacity, which is consistent with zoning and uses of surrounding properties. Buildings, parking areas, and/or maintained vegetative landscaping will substantially limit availability of suitable cover type for reestablishment of biota across the Site. The Site is located within the vicinity of Lake Sturgeon, a winter waterfowl concentration area, and a significant gull colony. However, the Site does not contain any habitats of endangered, threatened, or special concern species. Federal wetlands including a Freshwater Emergent Wetland and a Freshwater Forested/Shrub Wetland and a NYSDEC previously mapped freshwater wetland were identified within 0.5 miles of the Site, but no wetlands were identified within Site boundaries. No potential ecological exposure scenario exists due to the immobility of Site contaminants (i.e., PAHs, metals) in soil, minimizing off-site migration. Therefore, no further work on the Fish and Wildlife Resource Impact Analysis (FWRIA) is required. The FWRIA key used in this assessment is included in Appendix G.

7.3 Qualitative Off-Site Exposure Assessment

During the RI, soil borings and test pits were advanced across the Site, including areas proximate to Site property boundaries. These sampling locations were used in conjunction with previously collected data to complete this qualitative off-site exposure assessment and evaluate potential remedial measures to address Site contamination.

As discussed in Section 5.0, contaminants in on-Site soil/fill could potentially migrate off-site as fugitive dust emissions during intrusive activities and groundwater transport. However, given the NYSDEC and NYSDOH requirements for dust monitoring and controls during intrusive activities at remedial program construction sites, it is unlikely that site-related contaminants would reach off-site receptors at significant exposure point concentrations. Once impacted soil/fill areas of concern are remediated, and either all impacted soil/fill is removed under Track 1 USCOs cleanup, or targeted soil/fill is removed and a Site cover system is installed as an engineering control under a Track 4 RRSCOs cleanup, potential off-site exposure will be eliminated.

The Site and surrounding area are serviced by a municipal drinking water system and there is a restriction on use of groundwater in the City of Buffalo, mitigating potential exposure to contaminants in groundwater.

8. Remedial Alternatives Analysis Evaluation

This section provides an analysis of the potential remedial approach(s) by using the Remedy Selection Evaluation Criteria identified in Section 4.2 of Guidance Document DER-10: Technical Guidance for Site Investigation and Remediation. In accordance with DER-10 Section 4.4(d)2, in addition to a "no action" baseline alternative, the following alternatives were developed and assessed based on NYSDEC-defined cleanup tracks as follows:

Track 1, 6 New York Codes, Rules and Regulations (6NYCRR) Part 375-3.8(e)(1) requires site media to meet Part 375 SCOs that will allow the site to be used for any purpose without restrictions on the use of the site (i.e., unrestricted use). The soil cleanup must achieve the unrestricted use criteria at any depth above bedrock. Details and evaluation of the Track 1 alternative are described below.

Track 2, 6NYCRR Part 375-3.8(e)(4) requires site media to meet generic SCOs under a restricted use scenario. For Track 2 remedies, long-term institutional or engineering controls may not be used to achieve SCOs, but short-term controls may be used if SCOs would be achieved in no more than 5 years. Long-term institutional and engineering controls may be implemented for groundwater or soil vapor if they can be realistically implemented and maintained in a reliable and enforceable manner. A Track 2 cleanup has not been considered in this analysis.

Track 4, 6NYCRR Part 375-3.8(e)(4) soil cleanups use site-specific information to identify site-specific SCOs that are protective of public health and the environment under a restricted use scenario. For Track 4 remedies, restrictions can be placed on the use of the property in the form of institutional and engineering controls if they can be realistically implemented and maintained in a reliable and enforceable manner. As set forth in 6 NYCRR Part 375-3.8(e)(4)(iii)(a)(1), the top two foot of all exposed surface soils, not otherwise covered by the components of the development of the site (e.g., buildings, pavement), shall not exceed the restricted use (Restricted-Residential Use) SCOs. Areas that exceed these SCOs must be covered by material meeting the requirements of the generic soil cleanup table contained in Part 375-6.7(d) for the applicable anticipated future site uses (i.e., Restricted-Residential Use).

8.1 Remedial Action Objectives

The final remedial measures for the Site must satisfy Remedial Action Objectives (RAOs). RAOs are site-specific statements that convey the goals for minimizing or eliminating substantial risks to public health and the environment. Appropriate RAOs for the Site, per DER-10 generic RAOs include:

Soil/Fill RAOs

RAOs for Public Health Protection

- Remove or treat soil/fill areas of concern (i.e., soil/fill deemed unacceptable to remain on-Site) as necessary to protect public health and the environment.
- Prevent ingestion /direct contact with contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater and/or surface water contamination.

8.2 General Response Actions

General Response Actions (GRAs) are broad classes of actions that are developed to achieve the RAOs and form the foundation for the identification and screening of remedial technologies and alternatives.

The GRAs available to address the RAOs for soil/fill include:

- Excavation and off-site disposal
- Treatment (e.g., in-situ or ex-situ)
- Engineering Controls (e.g., cover system)
    - Institutional Controls (e.g., Environmental Easement, Site Management Plan)
    - Excavation and off-site disposal

8.3 Standards, Criteria, and Guidance

According to DER-10 Section 1.3(b)71, standards, criteria, and guidance (SCGs) means *"standards and criteria that are generally applicable, consistently applied, and officially promulgated, that are either directly applicable or not directly applicable but are relevant and appropriate, unless good cause exists why conformity should be dispensed with, and with consideration being given to guidance determined, after the exercise of scientific and engineering judgment, to be applicable. This term incorporates both the CERCLA concept of 'applicable or relevant and appropriate requirements' (ARARs) and the USEPA's 'to be considered' (TBCs) category of non-enforceable criteria or guidance. For purposes of this Guidance, 'soil SCGs' means the soil cleanup objectives and supplemental soil cleanup objectives identified in 6NYCRR 375-6.8 and the Commissioner Policy CP-51 on Soil Cleanup Guidance."*

Soil/Fill:

Soil Cleanup Objectives (SCOs) per 6 New York Code Rules and Regulation (6 NYCRR) Part 375 Environmental Remediation Programs, Subparts 375-12 to 375-4 & 375-6, effective December 14, 2006.

Maximum Concentrations of Contaminants for the Toxicity Characteristic per Code of Federal Regulations (CFR) Title 40, Chapter I, Subchapter I, Part 261, Subpart C Characteristics of Hazardous Waste §261.24 Toxicity Characteristics, Table 1.

Groundwater

Class GA Groundwater Quality Standards and Guidance Values (GWQS/GVs) per NYSDEC's Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1), June 1998, amended April 2000.

Additional discussions concerning the specific chemical-specific SCGs that may be applicable, relevant, or appropriate to remedy selection for the Site are presented below. In each case, the identified SCGs are generally limited to regulations or technical guidance in lieu of the environmental laws from which they are authorized, as the laws are typically less prescriptive in nature and inherently considered in the regulatory and guidance evaluations. Table 8 summarizes the SCGs by media that may be applicable or relevant and appropriate to the Site.

8.3.1 Chemical-Specific SCGs

Chemical-specific SCGs are usually health- or risk-based concentrations in environmental media (e.g., air, soil, water), or methodologies that when applied to site-specific conditions, result in the establishment of concentrations of a chemical that may be found in, or discharged to, the ambient environment. The determination of potential chemical-specific SCGs for a site is based on the nature and extent of contamination; potential migration pathways and release mechanisms for site contaminants; reasonably anticipated future site use; and likelihood that exposure to site contaminants will occur.

Previous sampling events during historic Phase II and RI activities included the collection and analysis of surface soil/fill, subsurface soil/fill, groundwater, and soil vapor (see Tables 3 through 7).

As previously indicated, one of the remedial alternatives to be assessed for the Site is a Track 4 Restricted-residential cleanup for soil/fill. This approach requires institutional controls (e.g., groundwater and land use restrictions, Site Management Plan, and Environmental Easement) and engineering controls (e.g., a soil cover system) as a component of the final remedy to reduce future potential exposure to impacted soil/fill that remains after remedial activities.

8.4 Evaluation of Alternatives

In addition to achieving RAOs, NYSDEC's Brownfield Cleanup Program calls for remedy evaluation in accordance with DER-10 Technical Guidance for Site Investigation and Remediation. The remedial alternatives are evaluated against the following criteria consistent with 6NYCRR Part 375-1.8(f):

- **Overall Protection of Public Health and the Environment**. This criterion is an evaluation of the remedy's ability to protect public health and the environment, assessing how risks posed through each existing or potential pathway of exposure are eliminated, reduced, or controlled through removal, treatment, engineering controls, or institutional controls.
- **Compliance with Standards, Criteria, and Guidance (SCGs)**. Compliance with SCGs addresses whether a remedy will meet applicable environmental laws, regulations, standards, and guidance.
- **Long-Term Effectiveness and Permanence**. This criterion evaluates the long-term effectiveness of the remedy after implementation. If wastes or treated residuals remain on-site after the selected remedy has been implemented, the following items are evaluated: (i) the magnitude of the remaining risks (i.e., will there be any significant threats, exposure pathways, or risks to the community and environment from the remaining wastes or treated residuals), (ii) the adequacy of the engineering and institutional controls intended to limit the risk, (iii) the reliability of these controls, and (iv) the ability of the remedy to continue to meet RAOs in the future.

- **Reduction of Toxicity, Mobility or Volume of Contamination through Treatment**. This criterion evaluates the remedy's ability to reduce the toxicity, mobility, or volume of Site contamination. Preference is given to remedies that permanently and significantly reduce the toxicity, mobility, or volume of the wastes at the Site.
- **Short-Term Impacts and Effectiveness**. Short-term effectiveness is an evaluation of the potential short-term adverse impacts and risks of the remedy upon the community, the workers, and the environment during construction and/or implementation. This includes a discussion of how the identified adverse impacts and health risks to the community or workers at the Site will be controlled, and the effectiveness of the controls. This criterion also includes a discussion of engineering controls that will be used to mitigate short term impacts (i.e., dust control measures), and an estimate of the length of time needed to achieve the remedial objectives.
- **Implementability**. The implementation criterion evaluates the technical and administrative feasibility of implementing the remedy. Technical feasibility includes the difficulties associated with the construction and the ability to monitor the effectiveness of the remedy. For administrative feasibility, the availability of the necessary personnel and material is evaluated along with potential difficulties in obtaining specific operating approvals, access for construction, etc.
- **Cost-Effectiveness**. Capital, operation, maintenance, and monitoring costs are estimated for the remedy and presented on a present worth basis.
- **Community Acceptance**. This criterion evaluates the public's comments, concerns, and overall perception of the remedy.
- **Land Use**. In addition to the above criteria, 6NYCRR Part 375-1 specifies that the criterion of Land Use (i.e., the current, intended, and reasonably anticipated future land uses of the Site and its surroundings) be considered in the selection of the remedy.

8.5 Anticipated Future Land Use Evaluation

In developing and screening remedial alternatives, NYSDEC's Part 375 regulations require that the reasonableness of the anticipated future land be factored into the evaluation. The regulations identify 16 criteria that must be considered. These criteria and the resultant outcome for the Site are presented below.

1. *Current use and historical and/or recent development patterns:* The Site was previously developed with numerous commercial buildings and former sections of existing streets including Pearl, Commercial, and Lloyd Streets as well as the former Buffalo Memorial Auditorium ("The Aud"). The Site will be redeveloped for residential and commercial use. **Accordingly, the planned redevelopment is consistent with the historical and recent development patterns.**

2. *Applicable zoning laws and maps:* The Site is located in an area of the City of Buffalo identified as a highly developed commercial and residential area. . The site is currently zoned N-1C – urban core mixed use **The anticipated redevelopment of the Site for commercial and residential use will be consistent with Site zoning.**

3. *Brownfield opportunity areas as designated set forth in GML 970-r:* The Brownfield Opportunity Area (BOA) Program provides municipalities and community-based organizations with assistance to complete revitalization plans and implementation strategies for areas or communities affected by the presence of brownfield sites, and site assessments for strategic sites. **The Site is located within the limits of the Buffalo Harbor BOA.**

4. *Applicable comprehensive community master plans, local waterfront revitalization plans as provided for in EL article 42, or any other applicable land use plan formally adopted by a municipality*: **The Site is zoned N-1C –mixed use core. The future use as commercial and residential is consistent with allowable site uses.**

5. *Proximity to real property currently used for residential use, and to urban, commercial, industrial, agricultural and recreational areas*: Commercial properties are located to the north, south, east, and west of the Site. **Nearby and adjacent properties are commercial and residential. The proposed/anticipated commercial and residential redevelopment is consistent with local development plans.**

6. *Any written and oral comments submitted by members of the public on the proposed use as part of the activities performed pursuant to the citizen participation plan*: **No comments have been received from the public to date pursuant to the citizen participation plan.**

7. *Environmental justice concerns, which include the extent to which the proposed use may reasonably be expected to cause or increase a disproportionate burden on the community in which the site is located, including low-income minority communities, or to result in a disproportionate concentration of commercial or industrial uses in what has historically been a mixed use or residential community*: Surrounding properties are actively used in a commercial capacity. Furthermore, for this development project 50% of the residential units will be set aside for low- and very-low-income households, characterized as earning between 40-80% of Area Median Income. An additional 30% of the units will be reserved for households earning between 100-130% of Area Median Income at below market rate values. Additionally, Westminster Economic Development Initiative, Inc. ("WEDI"), a not-for-profit that provides economic and educational support to Western New Yorkers, including its recent immigrants, will occupy part of the commercial space and offer its business incubator and micro-lending programs within the facility. As such, **future anticipated use of the Site in a commercial and residential capacity will not pose environmental justice issues.**

8. *Federal or State land use designations:* There are no known federal or state land use designations. **Redevelopment for anticipated commercial and residential use will be consistent with local land use.**

9. *Population growth patterns and projections:* City of Buffalo, encompassing approximately 52.5 square miles, has a population of 278,349 (2020 estimate - US Census Bureau), an increase of 6.52 percent from the 2010 census. The Site is located within Census Tract 72.01, a mixed-use area in the City of Buffalo. **Redevelopment of the currently unoccupied Site in a commercial and residential capacity would provide positive opportunities for growth.**

10. *Accessibility to existing infrastructure:* Access to the Site is from Pearl Street. The Site has access to all major public and private utilities, including potable water, sanitary and storm sewers, electric, and natural gas. **Existing infrastructure supports planned reuse**.

11. *Proximity of the site to important cultural resources, including federal or State historic or heritage sites or Native American religious sites*. The site is located in the Canalside district of the City of Buffalo. **Per the New York State Historical Preservation Office, this area is proximate to several federal and state historic sites and districts, however there are no cultural resources identified at the Site.**

12. *Natural resources, including proximity of the site to important federal, State or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species:* No State or Federal wetlands exist on the Site, nor is the Site located within a rare plant and/or animal habitat. The Site is located within 1.0 mile of several state and federal regulated wetlands. However, adjacent properties are currently used for commercial purposes, and prior use of the Site as commercial has prevented it from being a suitable setting for ecological resources. **The absence of a suitable setting for ecological resources on or adjacent to the Site indicates that the remediated Site will not pose an ecological threat.**

13. *Potential vulnerability of groundwater to contamination that might emanate from the site, including proximity to wellhead protection and groundwater recharge areas and other areas identified by the Department and the State's comprehensive groundwater remediation and protection program established set forth in ECL article 15 title 31:* There are no groundwater supply wells present on the Site or noted in the vicinity of the Site. Regionally, groundwater has not been extracted for industrial, commercial, agriculture, or public supply purposes. Potable water service is provided by the local municipal water authority. **The absence of potable wells and wellhead protection along with remediating the Site for use in an anticipated commercial and residential capacity prevents a threat to drinking water.**

14. *Proximity to flood plains:* The Erie County Internet Mapping System indicates that the Buffalo River, which has a designated flood zone, is located approximately 0.14-miles to the south. No flood zones are present on the property, and therefore there is a low risk of erosion due to flooding. **As such, remediating the Site for anticipated use in a commercial and residential capacity does not pose a risk to the surface water.**

15. *Geography and geology:* The Site is located within the Lake Erie-Niagara River major drainage basin, which is typified by little topographic relief that gently slopes westward towards the Niagara River, except in the immediate vicinity of major drainage ways. According to the United States Department of Agriculture (USDA) Web soil survey, Site soils are characterized as Urban land (Ud). This soil is characterized as 80 percent urban land and 20 percent minor components. Soils within the City of Buffalo with the majority of soil surface covered by asphalt, concrete, buildings, or other impervious structures, typical of an urban environment, are characterized as urban land. **The redevelopment plan is consistent with the geography and geology of the Site.**

16. *Current institutional controls applicable to the site:* **No institutional controls are currently present that would affect the proposed redevelopment.**

Based on the above analysis, planned reuse of the Site is consistent with past, current, and contemplated development and zoning on and around the Site, and does not pose additional environmental or human health risk.

8.6 Comparison of Remedial Alternatives

In addition to the evaluation of the alternatives to remediate the Site to the likely end use, NYSDEC regulations and policy call for evaluation of more restrictive end-use scenarios. These include an Unrestricted Use scenario (considered under 6NYCRR Part 375 to be representative of cleanup to pre-disposal conditions), and a scenario less restrictive than the reasonably anticipated future use. Per NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, evaluation of a "no action"

alternative is also required to provide a baseline for comparison against other alternatives. The alternatives evaluated below in greater detail include:

- Alternative 1 – No Further Action
- Alternative 2 – Restricted Residential Use (Track 4) Cleanup
- Alternative 3 – Unrestricted Use (Track 1) Cleanup

8.6.1 Alternative 1 - No Further Action

Under this alternative, the Site would remain in its current state, with no remediation or controls in place.

Overall Protection of Public Health and the Environment – This alternative is not protective of human health and the environment, due to the presence of contamination remaining on-site above SCGs; the absence of engineering controls (e.g., cover system); and the absence of institutional controls to prevent more restrictive forms of future site use (e.g., unrestricted, residential, and restricted residential) or the export of Site soils to uncontrolled off-site locations. Accordingly, no further action is not protective of public health and does not satisfy the RAOs.

Compliance with SCGs – Under the current and reasonably anticipated future use scenario (commercial and residential), the contamination detected in on-site soil/fill does not comply with applicable SCGs.

Long-Term Effectiveness and Permanence – The no further action alternative involves no remediation, or implementation of engineering or institutional controls, and provides no long-term effectiveness toward achieving the RAOs.

Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment – The no action alternative does not reduce the toxicity, mobility, or volume of contamination beyond natural degradation/attenuation, and therefore this alternative is not protective of public health and does not satisfy any of the RAOs.

Short-Term Impacts and Effectiveness – The contamination on-site does pose short-term risks to on-site workers and the environment. Adverse impacts and risks to the community, potential workers, or the environment would be attributable to implementation of the no action alternative. Therefore, implementation of the no further action alternative does not satisfy RAOs.

Implementation – No technical or administrative implementation issues are associated with the no further action alternative.

Cost – The capital cost of the no action alternative is $0. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no action alternative.

Community Acceptance – Community acceptance will be evaluated based on comments received from the public in response to a Fact Sheet and other planned Citizen Participation activities.

8.6.2 Alternative 2 – Restricted Residential Use (Track 4) Cleanup

Under Alternative 2, the Site would be remediated to facilitate reasonably anticipated Restricted Residential use. This alternative would include:

- In-situ stabilization of characteristic hazardous lead soil/fill in the TP-18/RISB-2 area. Based on the relatively high TCLP lead concentration observed in RISB-2, soil immediately surrounding the sample location RISB-2 will be stabilized in-situ to render the material non-hazardous, then excavated and disposed off-site at a commercial landfill.
- Excavation of "hot spots", defined as soil/fill material exceeding Commercial SCOs (CSCOs) and/or Industrial SCOs (ISCOs) in the areas of TP-12, TP-19, TP-21/RI-SB-3, TP-24, TP-31, TP-32, TP-34, SS-4, and SS-10, and backfilling and compaction of on-site soil/fill and/or clean, imported stone/soil approved by the Department.
- Placement of Cover System on the 1.87-acre Site, consisting of either hardscape (i.e., asphalt, concrete) or a demarcation layer underlying at least two feet of DER-10 acceptable backfill in areas without hardscape.
- Implementation of a Site Management Plan (SMP) including an Institutional Control and Engineering Control (IC/EC) Plan, an Operation and Maintenance Plan, an Excavation Work Plan, and a Site Monitoring Plan
- Filing of an Environmental Easement with Erie County.

Overall Protection of Public Health and the Environment – This alternative meets the NYSDEC requirements for a Track 4 cleanup under the BCP regulations and is protective of public health and the environment. The RAOs for the Site would be satisfied through the planned remedial activities, including: excavation of hot spots, treatment of characteristically hazardous soil/fill followed by excavation and off-site disposal at a commercial landfill, installation of cover system (clean imported soil and/or impervious materials); and the use of EC/ICs to prevent potential future exposure and limit the future Site use to residential and commercial.

Compliance with SCGs – The planned remedial activities would need to be performed in accordance with applicable, relevant, and appropriate SCGs. Post-excavation and post treatment samples would be collected to verify conformance with SCG and SCOs and hazardous regulatory limits. Imported cover material would need to meet backfill criteria per DER-10. Cover placement would be performed under the BCP and DER-10. Subgrade intrusive activities would necessitate adherence with the CAMP, in accordance with Appendices 1A and 1B of DER-10. The Site Management Plan will include: an Operation and Maintenance (O&M) plan to confirm that engineering controls (soil cover system) are operating and being maintained in accordance with the SMP; an Excavation Work Plan to address any impacted soil/fill encountered during post-development maintenance activities; and, a Site Monitoring Plan that will provide the schedule for a Site-wide Inspection program implemented to assure that the engineering and institutional controls placed on the Site have not been altered and remain effective.

The planned remedial activities for this alternative are fully protective of public health and the environment and achieve RAOs for the Site.

Long-Term Effectiveness and Permanence – Removal, treatment, and disposal of impacted soil/fill would permanently remove contaminated soil/fill from the Site and construction of a soil cover system in the western portion of the Site would prevent direct contact with any remaining soil/fill exceeding RRSCOs.

The SMP will include appropriate plans, controls, and measures and an environmental easement to ensure the restricted residential use remedy is protective of human health and the environment. The SMP will be followed by the current Site owner as well as future Site owners. As such, this alternative will provide long-term effectiveness and permanence.

Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment – Through the planned remedial measures described above, this criterion will be achieved. Specifically, removal, treatment, and disposal of impacted soil/fill will permanently and significantly reduce the toxicity, mobility, and volume of the soil/fill that could potentially be contacted or produce localized areas of environmental impact at the Site. Contaminated soil removal will permanently and significantly reduce toxicity, mobility, and volume of impacted groundwater. Accordingly, this alternative satisfies this criterion.

Short-Term Impacts and Effectiveness – The short-term adverse impacts, such as truck traffic associated with off-site disposal of contaminated soil and imported backfill materials, and risks to the community, workers, and environment during implementation of this Restricted Residential Track 4 alternative are not considered significant and are controllable.

During intrusive remedial activities, typical construction equipment will be utilized. Required air monitoring would be performed to assure conformance with community air monitoring action levels. The excavation will be backfilled once contaminated soil/fill is removed to minimize the time excavations are left open. Planned remedial activities will be performed in accordance with an approved RAWP, including a HASP and CAMP. This alternative achieves the RAOs for the Site.

Implementation – No significant technical or administrative implementability issues are associated with this alternative. During intrusive remedial activities, typical construction equipment will be utilized to treat characteristically hazardous soil/fill, excavate and transport contaminated materials, and import backfill materials.

Cost – As summarized on Table 9, the capital cost of implementing this Track 4 alternative is estimated at $850K.

Community Acceptance – Community acceptance will be evaluated based on comments received from the public in response to Fact Sheets and other planned citizen participation activities.

8.6.3 Alternative 3 - Unrestricted Use (Track 1) Cleanup

Alternative 3 would remediate the Site to Part 375 unrestricted use (Track 1) and would include the following components:

- In-situ stabilization of characteristic hazardous lead soil/fill in TP-18/RISB-2 area. Based on the relatively high TCLP lead concentration observed in RISB-2, soil immediately surrounding sample location RISB-2 will be stabilized in-situ, then excavated and disposed off-site at a commercial landfill.
- Excavation and off-site disposal of all soil/fill exceeding USCOs.

An Unrestricted Use alternative necessitates remediation of all soil/fill where concentrations exceed USCOs. For the Unrestricted Use scenario, excavation and off-site disposal of impacted soil/fill is generally regarded as the most applicable remedial measure, because institutional controls cannot be used to supplement the remedy. As such, the Unrestricted Use alternative assumes soil/fill exceeding USCOs would be excavated and disposed at an off-Site commercial solid waste or hazardous waste facility.

Based on the RI, USCO exceedances were detected in fill material across the Site. Fill depths varied across the Site and were noted at depths as deep as 21 fbgs and as shallow as 1 fbgs. Considering the varying depths, the average fill depth is approximately 5.4 fbgs. An average depth of 5.4 fbgs was used in this evaluation, indicating that approximately 16,500 cubic yards or 26,400 tons of impacted soil/fill would require excavation and off-site disposal; and equivalent backfilling. Confirmatory sampling results and field observations would ultimately determine the excavation extents. Of the 16,500 cubic yards of soil/fill, we estimate an approximate volume of 445 cubic yards in the area of TP-18/RISB-2 will require treatment to render the soil/fill non-hazardous prior to off-site disposal at a commercial landfill.

Overall Protection of Public Health and the Environment – Excavation and off-site disposal to achieve USCOs would be protective of public health under any reuse scenario.

Compliance with SCGs – The Unrestricted Use alternative would be performed in accordance with all applicable, relevant, and appropriate standards, guidance, and criteria. Imported backfill material would need to meet backfill quality criteria per DER-10. Excavation of soil to achieve USCOs would satisfy this criterion.

Long-Term Effectiveness and Permanence – The Unrestricted Use alternative would achieve removal of all residual impacted soil/fill; therefore, the Unrestricted Use alternative would provide long-term effectiveness and permanence. Therefore, the completed remedial actions are fully protective of public health and the environment and achieve the RAOs for the Site.

Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment – Through removal of all impacted soil/fill, the Unrestricted Use alternative would reduce the toxicity, mobility, and volume of Site contamination permanently and significantly. However, since this alternative transfers Site soil/fill from one environment to another, an overall reduction of toxicity and volume would not occur. Mobility of

soluble constituents would be reduced in the commercial landfill with engineered liners, cover systems, and leachate collection.

Short-Term Effectiveness – The principal advantage of a large-scale excavation to achieve USCOs is reliability of effectiveness in the long-term. In the short-term, there would be a slight increase in exposure of impacted soil/fill to on-site workers and the community under this alternative. Short-term risks may include increased truck traffic during excavation and backfill; noise; and air emissions, including fugitive dust and odors. Excavation activities would be completed over an approximate 4 to 6-week period with backfilling occurring concurrently during the same time frame. Commercial construction equipment would be used, a health and safety plan would be followed, and community air monitoring would be completed during excavation activities to minimize risk.

Planned remedial activities will be performed in accordance with an approved Remedial Action Work Plan (RAWP), including a Health and Safety Plan (HASP) and CAMP. This alternative represents an adverse effect in the short-term; however, the RAOs would be achieved once the soil/fill is removed from the Site, and backfill soils are in place.

Implementation –Technical implementation issues may be encountered in completion of the Unrestricted Use alternative. Technical implementation issues include but are not limited to: shoring/stabilizing excavation sidewalls along sidewalks and streets to prevent sloughing during the excavation; the need for construction, maintenance, and operation of dewatering facilities; groundwater and/or stormwater handling, treatment and/or discharge/disposal; and traffic coordination for trucks entering and exiting the Site. Standard construction techniques would be followed during excavation and for groundwater management. Overall, implementation of the Track 1 remedy is feasible.

Cost – As summarized on Table 10, the cost of implementing a Track 1 Unrestricted Use cleanup alternative is estimated at $3.87M.

Community Acceptance – Community acceptance will be evaluated based on comments received from the public in response to Fact Sheets and other planned citizen participation activities.

8.7 Recommended Remedial Measure

Based on the alternatives analysis evaluation, *Alternative 3* –Unrestricted Use (Track 1) Cleanup is the recommended final remedial approach for the North Aud Block Site. The recommended remedial alternative would involve:

<u>Unrestricted Track 1</u>

- In-situ stabilization of characteristically hazardous lead soil/fill in the TP-18/RISB-2 area to remove the hazardous characteristic for disposal off-site at a commercial landfill as a non-hazardous material.

- Excavation of all soil/fill where concentrations exceed USCOs and backfilling and compaction of on-site soil/fill and/or clean, imported stone/soil approved by the Department.

This remedy is fully protective of public health and the environment; is advantageous over other remedies when evaluated against the remedy selection criteria; and fully satisfies the RAOs for the Site. The components and details of the remaining tasks will be more fully described in a RAWP.

Table 11 provides a comparison of the alternatives by media to identify remedial measures that will achieve the RAOs for the Site.

9. RI/AAR Summary and Conclusions

Based on the data and analyses presented in the preceding sections, we offer the following summary and conclusions:

Soil

Based on the historic and RI subsurface soil/fill findings, PAHs and metals, were identified exceeding RRSCOs in soil/fill samples collected across the Site at varying depths.

Groundwater

VOCs, SVOCs, PCBs, pesticides, herbicides, and 1,4-dioxane were not detected above their respective GWQS. Naturally occurring metals were detected under total and dissolved metals analysis. Dissolved metals concentrations were generally lower in comparison to total metals. Total lead was detected above its GWQS but dissolved lead was detected below its GWQS. One individual PFAS compound (PFOA) was detected at a concentration slightly exceeding its GWQS at one location (MW-6); however, based on the minimal concentration identified, it is not consider a constituent of concern or a finding that requires further work.

Soil Vapor

Low level concentrations of VOCs were detected in the soil vapor samples, indicating soil vapor is not a concern at the Site.

Selected Remedy

Alternative #3 – Unrestricted (Track 1) Cleanup was selected as the remedy. The Track 1 Unrestricted Use remedy is: fully protective of public health and the environment; is advantageous over other remedies when evaluated against the remedy selection criteria; and, fully satisfies the RAOs for the Site. The components and details of the remaining tasks will be more fully described in an RAWP.

10. References

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TABLES

1. Summary of RI Sampling and Analytical Program
2. Summary of Groundwater Elevations and Monitoring Well Construction Details
3. Summary of RI Surface Soil/Fill Analytical Data
4. Summary of Phase II and RI Subsurface Soil/Fill Analytical Data
5. Summary of RI TCLP Analytical Data
6. Summary of RI Groundwater Analytical Data
7. Summary of RI Soil Vapor and Outdoor Air Analytical Data
8. Standards, Criteria, and Guidance (SCGs)
9. Cost Estimate for Restricted Residential Use (Track 4) Alternative
10. Cost Estimate for Unrestricted Use (Track 1) Alternative
11. Comparison of Remedial Alternatives

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TABLE 1
SUMMARY OF RI SAMPLING AND ANALYTICAL PROGRAM
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT
NORTH AUD BLOCK (C915406)
BUFFALO, NEW YORK

Location	Data Source	Depth to (fbgs)		Date	Parameter[1]										
		GW	Depth Sampled		TCL plus CP-51 VOCs[2]	TCL SVOCs	TAL Metals (total)	TAL Metals (dissolved)	PCBs	Herbicides	Pesticides	PFAS	PAHs	RCRA Metals	TCLP Lead and/or Waste Characterization Parameters
Surface Soil															
SS-1	RI	N/A	0-2"	2/10/2025	--	1	1	--	1	1	1	1	--	--	--
SS-2	RI	N/A	0-2"	2/11/2025	--	1	1	--	1	1	1	1	--	--	--
SS-3	RI	N/A	0-2"	2/12/2025	--	1	1	--	1	1	1	1	--	--	--
SS-4	RI	N/A	0-2"	2/13/2025	--	1	1	--	1	1	1	1	--	--	--
SS-5	RI	N/A	0-2"	2/14/2025	--	1	1	--	--	--	1	--	--	--	--
SS-6	RI	N/A	0-2"	2/14/2025	--	1	1	--	1	1	1	1	--	--	--
SS-7	RI	N/A	0-2"	2/11/2025	--	1	1	--	--	--	1	--	--	--	--
SS-8	RI	N/A	0-2"	2/13/2025	--	1	1	--	1	1	1	1	--	--	--
SS-9	RI	N/A	0-2"	2/13/2025	--	1	1	--	1	1	1	1	--	--	--
SS-10	RI	N/A	0-2"	2/13/2025	--	1	1	--	--	--	1	--	--	--	--
Blind Duplicate	RI	N/A	0-2"	2/13/2025	--	1	1	--	1	1	1	1	--	--	--
MS/MSD	RI	N/A	0-2"	2/13/2025	--	1	1	--	1	1	1	1	--	--	--
Surface Soil Subtotal					0	12	12	0	9	9	12	9	--	0	0
Subsurface Soil															
B-1 0.5-6.5 ft	Phase II	N/A	0.5-6.5'	6/1/2020	1	--	--	--	1	1	1	--	1	1	--
B-2 0.5-6.5 ft	Phase II	N/A	0.5-6.5'	6/1/2020	1	--	--	--	1	1	1	--	1	1	--
B-3 0.5-6 ft	Phase II	N/A	0.5-6.5'	6/2/2020	1	--	--	--	1	1	1	--	1	1	--
B-4 0.5-6.5 ft	Phase II	N/A	0.5-6.5'	6/2/2020	1	--	--	--	1	1	1	--	1	1	--
TP-4 1-3 ft	Phase II	N/A	1-3'	5/18/2023	--	--	--	--	1	--	--	--	1	1	--
TP-4 3-5 ft	Phase II	N/A	3-5'	5/18/2023	--	--	--	--	--	--	--	--	1	1	--
TP-7 2-4 ft	Phase II	N/A	2-4'	5/18/2023	--	--	--	--	--	--	--	--	1	1	--
TP-8 2-4 ft	Phase II	N/A	2-4'	5/18/2023	--	--	--	--	1	--	--	--	1	1	--
TP-10 2-4 ft	Phase II	N/A	2-4'	5/18/2023	--	--	--	--	--	--	--	--	1	1	--
TP-12 1-3 ft	Phase II	N/A	1-3'	5/18/2023	--	--	--	--	1	--	--	--	1	1	--
TP-18 1-3 ft	Phase II	N/A	1-3'	6/20/2023	--	--	--	--	--	--	--	--	1	1	--
TP-19 1-3 ft	Phase II	N/A	1-3'	6/20/2023	--	--	--	--	--	--	--	--	1	1	--
TP-20 4-6 ft	Phase II	N/A	4-6'	6/20/2023	--	--	--	--	--	--	--	--	1	1	--
TP-21 1-3 ft	Phase II	N/A	1-3'	6/20/2023	--	--	--	--	--	--	--	--	1	1	--
TP-28 0-2 ft	RI	6	0-2'	2/11/2025	1	1	1	--	1	1	1	1	--	--	--
TP-30 2-3 ft	RI	9	2-3'	2/11/2025	--	1	1	--	--	--	1	--	--	--	--
TP-31 2-4 ft	RI	9	2-4'	2/12/2025	1	1	1	--	1	1	1	1	--	--	--
TP-32 2-3 ft	RI	N/A	2-3'	2/12/2025	1	1	1	--	1	1	1	1	--	--	1
TP-33 1-5 ft	RI	9	1-5'	2/12/2025	1	1	1	--	1	1	1	1	--	--	--
TP-34 0-4 ft	RI	14	0-4'	2/12/2025	1	1	1	--	1	1	1	1	--	--	--
RISB-1 0.5-2.5 ft	RI	N/A	0.5-2.5'	3/18/2025	1	1	1	--	1	1	1	1	--	--	--
RISB-2 1-4 ft	RI	5.5	1-4'	2/11/2025	--	--	--	--	--	--	--	--	--	--	1
RISB-3 0.5-3 ft	RI	4.5	0.5-3'	2/11/2025	--	--	--	--	--	--	--	--	--	--	1
RISB-4 0-2 ft	RI	21	0-2'	2/17/2025	--	1	1	--	--	--	1	--	--	--	--
RISB-5 0-1 ft	RI	13	0-1'	2/13/2025	--	1	1	--	--	--	1	--	--	--	--
RISB-6 0.5-3 ft	RI	18	0.5-3'	2/13/2025	--	1	1	--	--	--	1	--	--	--	--
RISB-8 0.5-4 ft	RI	N/A	0.5-4'	2/14/2025	--	1	1	--	--	--	1	--	--	--	--
RISB-9 2-4 ft	RI	13	2-4'	2/14/2025	--	1	1	--	--	--	1	--	--	--	--
TP-28 5-7 ft	RI	6	5-7'	2/11/2025	--	1	1	--	--	--	1	--	--	--	--
TP-31 7-8 ft	RI	9	7-8'	2/12/2025	--	1	1	--	--	--	1	--	--	--	--
TP-33 5-9 ft	RI	9	5-9'	2/12/2025	1	1	1	--	1	1	1	1	--	--	--
TP-34 5-6 ft, 6-8 ft	RI	14	6-8'	2/12/2025	--	1	1	--	--	--	1	--	--	--	1
RISB-7 4-8 ft	RI	13	4-8'	2/17/2025	1	1	1	--	1	1	1	1	--	--	--
TP-31 10-11 ft	RI	9	10-11'	2/12/2025	--	1	1	--	--	--	1	--	--	--	--
TP-33 10-11 ft	RI	9	10-11'	2/12/2025	1	1	1	--	1	1	1	1	--	--	--
TP-34 13-15 ft	RI	14	13-15'	2/12/2025	--	1	1	--	--	--	1	--	--	--	--
RISB-6 17-18 ft	RI	18	17-18'	2/17/2025	1	1	1	--	1	1	1	1	--	--	--
MW-1 1.5-4.25 ft	RI	8	1.5-4.25'	2/11/2025	--	1	1	--	--	--	1	--	--	--	--
MW-2 0.5-3 ft	RI	8	0.5-3'	2/12/2025	1	1	1	--	1	1	1	1	--	--	--
MW-3 0-2 ft	RI	12	0-2'	2/13/2025	--	1	1	--	--	--	1	--	--	--	--
MW-4 0.5-2 ft	RI	8	0.5-2'	2/11/2025	1	1	1	--	1	1	1	1	--	--	--
MW-5 2.5-4 ft	RI	8	2.5-4'	2/14/2025	1	1	1	--	1	1	1	1	--	--	--
MW-6 4-5 ft	RI	16	4-5'	2/14/2025	--	1	1	--	--	--	1	--	--	--	--
MW-1 5-7 ft	RI	8	5-7'	2/11/2025	--	1	1	--	--	--	1	--	--	--	--
MW-2 5-8 ft	RI	8	5-8'	2/12/2025	1	1	1	--	1	1	1	1	--	--	--
MW-4 5-8 ft	RI	8	5-8'	2/11/2025	--	1	1	--	--	--	1	--	--	--	--
MW-1 12-15 ft	RI	8	12-15'	2/11/2025	--	1	1	--	--	--	1	--	--	--	--
MW-2 12-15 ft	RI	8	12-15'	2/12/2025	1	1	1	--	1	1	1	1	--	--	--
MW-4 12-15 ft	RI	8	12-15'	2/11/2025	--	1	1	--	--	--	1	--	--	--	--
WC-1 through WC-5	RI	N/A	Comp	2/18/2025	--	--	--	--	--	--	--	--	--	--	5
Blind Duplicate[3]	RI	--	--	--	1	2	2	--	1	1	2	1	--	--	--
MS/MSD[3]	RI	--	--	--	1	2	2	--	1	1	2	1	--	--	--
Soil Subtotal					21	37	37	0	24	21	41	17	14	14	9

TABLE 1
SUMMARY OF RI SAMPLING AND ANALYTICAL PROGRAM
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT
NORTH AUD BLOCK (C915406)
BUFFALO, NEW YORK

Location	Data Source	Depth to (fbgs)		Date	Parameter[1]										
		GW	Depth Sampled		TCL plus CP-51 VOCs[2]	TCL SVOCs	TAL Metals (total)	TAL Metals (dissolved)	PCBs	Herbicides	Pesticides	PFAS	PAHs	RCRA Metals	TCLP Lead and/or Waste Characterization Parameters
Soil Vapor (Method TO-15)															
SV-1	RI	N/A	3	4/2/2025	1	--	--	--	--	--	--	--	--	--	--
SV-2	RI	N/A	3	4/2/2025	1	--	--	--	--	--	--	--	--	--	--
SV-3	RI	N/A	3	2/26/2025	1	--	--	--	--	--	--	--	--	--	--
SV-4	RI	N/A	3	4/2/2025	1	--	--	--	--	--	--	--	--	--	--
SV-5	RI	N/A	3	4/2/2025	1	--	--	--	--	--	--	--	--	--	--
Outdoor Air	RI	N/A	N/A	2/26/2025	1	--	--	--	--	--	--	--	--	--	--
Soil Vapor Subtotal					6	0	0	0	0	0	0	0	0	0	0
Groundwater															
MW-1	RI	8.35	8.35	2/27/2025	1	1	1	1	1	1	1	1	--	--	--
MW-2	RI	8.8	8.8	2/27/2025	1	1	1	1	1	1	1	1	--	--	--
MW-3	RI	9.42	9.42	2/27/2025	1	1	1	1	1	1	1	1	--	--	--
MW-4	RI	8.8	8.8	2/27/2025	1	1	1	1	1	1	1	1	--	--	--
MW-5	RI	5.45	5.45	2/27/2025	1	1	1	1	1	1	1	1	--	--	--
MW-6	RI	13.95	13.95	2/27/2025	1	1	1	1	1	1	1	1	--	--	--
Blind Duplicate	RI	8.8	8.8	2/27/2025	1	1	1	1	1	1	1	1	--	--	--
MS/MSD	RI	8.8	8.8	2/27/2025	1	1	1	1	1	1	1	1	--	--	--
Trip Blank	RI	N/A	N/A	2/27/2025	1	--	--	--	--	--	--	--	--	--	--
Equipment Blank	RI	N/A	N/A	2/27/2025	--	--	--	--	--	--	--	1	--	--	--
Field Blank	RI	N/A	N/A	2/27/2025	--	--	--	--	--	--	--	1	--	--	--
Groundwater Subtotal					9	8	8	8	8	8	8	10	0	0	0
Sampling Totals					**36**	**57**	**57**	**8**	**41**	**38**	**61**	**36**	**14**	**14**	**9**

Acronyms:

VOCs = Volatile Organic Compounds via USEPA Method 8260 (TCL/CP 51 List VOCs)
SVOCs = Semi-Volatile Organic Compounds (+TICs) via USEPA Method 8270 (TCL List SVOCs)
Metals via USEPA Methods 3050/6010 and 7471
PCBs = Polychlorinated Biphenyls via USEPA Method 8082
Pesticides TCL list by USEPA Method 8081B
Herbicides TCL list by USEPA Method 8151A
PFAS = per-and polyfluoroalkyl substances via USEPA Method 537
PAHs = Polyaromatic hydrocarbons
RCRA = Resource Conservation and Recovery Act
1,4-dioxane via USEPA Method 8260 SIM
TCL = Target Compound List
TIC = Tentatively Identified Compound
BN = Base Neutral
TAL = Target Analyte List
MS/MSD = Matrix Spike/Matrix Spike Duplicate
MW = Monitoring Well
TP= Test pit
SB= Soil Boring

TABLE 2
SUMMARY OF GROUNDWATER ELEVATIONS AND MONITORING WELL CONSTRUCTION DETAILS
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT
NORTH AUD BLOCK SITE (C915406)
BUFFALO, NEW YORK

Well Identification		Well Elevations		Groundwater Elevations				Well Diameter (inches)	Well Screen Data		
					14-Mar-25						
Well Number	Date Completed	Grade [1] (feet)	TOR Elevation [1] (feet)	Stick Up (Feet)	DTW (fbTOR) [2]	DTW (fb Grade) [2]	Groundwater Elevation (feet)		Length of Well Screen (feet)	Screen Interval (fb Grade)	Screen Interval (feet)
MW-1	02/11/2025	578.30	581.62	3.32	8.15	4.83	573.47	2	10	2 to 17	576.30 to 561.62
MW-2	02/12/2025	578.97	582.05	3.08	8.60	5.52	573.45	2	10	4 to 14	574.97 to 565.05
MW-3	02/13/2025	579.71	582.60	2.89	9.15	6.26	573.45	2	10	2 to 17	577.71 to 562.60
MW-4	02/12/2025	579.35	581.99	2.64	8.75	6.11	573.24	2	10	6 to 21	573.35 to 557.99
MW-5	02/17/2025	578.99	578.70	-0.29	5.60	5.89	573.10	2	10	5 to 16	573.99 to 562.70
MW-6	02/14/2025	586.82	586.37	-0.45	13.90	14.35	572.47	2	10	5 to 20	581.82 to 566.37

Notes:

1. All elevations are feet relative to survey data provided on the ALTA/NSPS Land Title Survey completed by Frandina Engineering and Land Surveying, PC (July 2023).
2. DTW and well depth based on static water levels and measurements collected by Roux on March 14, 2025.

TOR = Top of riser
DTW = Depth to water
fb = feet below

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TABLE 3
SUMMARY OF RI SURFACE SOIL/FILL ANALYTICAL DATA
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT
NORTH AUD BLOCK (C915406)
BUFFALO, NEW YORK

PARAMETER[1]	Unrestricted Use SCOs [2]	Restricted Residential Use SCOs [2]	2025 Remedial Investigation [3]									
			SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10
			2/13/2025				2/14/2025		2/11/2025	2/13/2025		
Semi Volatile Organic Compounds (SVOCs) - mg/Kg [4]												
2-Methylnaphthalene	--	--	ND	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND
Acenaphthene	**20**	**100**	ND	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND
Anthracene	**100**	**100**	ND	ND	ND	0.081 J	ND	ND	3.9	0.066 J	ND	2.3 J
Benzo(a)anthracene	**1**	**1**	0.038 J	0.066 J	0.065 J	0.21 J	ND	ND	**4.8**	0.17 J	0.059 J	**6.3 J**
Benzo(a)pyrene	**1**	**1**	0.043 J	0.057 J	0.058 J	0.2 J	ND	ND	**3.9**	0.18 J	0.06 J	**5.8 J**
Benzo(b)fluoranthene	**1**	**1**	0.054 J	0.077 J	0.073 J	0.24 J	ND	ND	**5.1**	0.21 J	0.082 J	**7.4 J**
Benzo(ghi)perylene	**100**	**100**	0.03 J	0.035 J	0.033 J	0.12 J	ND	ND	1.9 J	0.098 J	0.042 J	3.4 J
Benzo(k)fluoranthene	**0.8**	**3.9**	ND	0.03 J	0.029 J	0.11 J	ND	ND	**2 J**	0.097 J	0.035 J	**3.2 J**
Carbazole	--	--	ND	ND	ND	0.029 J	ND	ND	1 J	0.033 J	ND	ND
Chrysene	**1**	**3.9**	ND	0.067 J	0.061 J	0.21 J	ND	ND	**4.2**	0.18 J	0.063 J	**6.4 J**
Dibenzo(a,h)anthracene	**0.33**	**0.33**	ND	ND	ND	ND	ND	ND	**0.7 J**	ND	ND	ND
Dibenzofuran	**7**	**59**	ND	ND	ND	ND	ND	ND	1.9 J	ND	ND	ND
Fluoranthene	**100**	**100**	0.095 J	0.14 J	0.14 J	0.48	ND	0.021 J	12	0.35	0.12 J	14
Fluorene	**30**	**100**	ND	ND	ND	0.033 J	ND	ND	3.5 J	ND	ND	ND
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	ND	0.033 J	0.029 J	0.1 J	ND	ND	**1.8 J**	0.087 J	0.038 J	**3.3 J**
Naphthalene	**12**	**100**	ND	ND	ND	ND	ND	ND	1.4 J	ND	ND	ND
Phenanthrene	**100**	**100**	0.063 J	0.065 J	0.087 J	0.34	ND	ND	14	0.27	0.055 J	9.1 J
Pyrene	**100**	**100**	0.075 J	0.1 J	0.1 J	0.37	ND	ND	7.8	0.27	0.097 J	9.9
Total PAHs	--	--	0.398 J	0.67 J	0.675 J	2.494 J	0 J	0.021 J	68.2 J	1.978 J	0.651 J	71.1 J
TICS	--	--	ND	4.04 TJN	ND	3.95 TJN	0.16 TJN	0.19 TJ	3.8 TJ	ND	ND	214.1 TJN
Metals - mg/Kg												
Aluminum	--	--	15500	19400	5250	17500 F2	13500	12800	7350	18200	17500	56300
Arsenic	**13**	**16**	3.5	3.9	ND	4.3	3.4	2.9	4.8	11.5	4	ND
Barium	**350**	**400**	82.5	111	30.6	103	73.7	72.5	157	119	186	**507**
Beryllium	**7.2**	**72**	0.6	0.74	0.21 J	0.78	0.55	0.52	0.35	0.77	0.69	2.7 J
Cadmium	**2.5**	**4.3**	0.46	0.51	0.11 J	0.7	0.26	0.22 J	0.37	0.99	0.38	**2.8 J**
Calcium	--	--	18000	8020	54000	72700 F2	45800	55300	71700	16500	24700	1170000
Chromium	**30**	**180**	17.4 B	23.4 B	6.9 B	19 B	16.4	15.5	12	21.3 B	20 B	113 B
Cobalt	--	--	7.4	8.7	2.4	8	7.8	6.9	4.1	12.6	8	19.5
Copper	**50**	**270**	15.4	18.8	8.1	18.5	15.1	15.2	27.9	17.7	18.4	**154**
Iron	--	--	17900	22300	6590	18500 F2	16000	15500	11500	25600	19100	78100
Lead	**63**	**400**	46.3	37	9.5	55.2	16.4	12.4	**309**	**69.5**	53.3	**342**
Magnesium	--	--	7640	5300	27300	11000 J	14300	18400	13200	6270	7900	83300
Manganese	**1600**	**2000**	518	653	159	788 F2	391	372	244	1260	495	**1930**
Mercury	**0.18**	**0.81**	0.1	0.056	0.017	0.071	0.034	0.087	**0.33**	0.061	0.13	**2.4**
Nickel	**30**	**310**	14.7	20.5	6.7	17.3	18	17.6	12.1	18.8	18.3	**78.8 J**
Potassium	--	--	2610	3310	1590	3460 F1	2950	2890	1990	3150	3060	16700
Selenium	**3.9**	**180**	ND	ND	ND	ND	ND	ND	1 J	1.1 J	ND	ND
Sodium	--	--	245	208	245	263	258	237	306	176 J	193 J	32300
Vanadium	--	--	30.1	36.9	10.6	32.1	26.8	25	18	38.9	33.2	123
Zinc	**109**	**10000**	101	**120**	35.7	**111**	57.2	53.3	**178**	**155**	109	**605**
Polychlorinated biphenyls (PCBs) - mg/Kg [4]												
Total PCBs	**0.1**	**1**	ND	ND	ND	ND	--	ND	--	ND	ND	--
Pesticides - mg/Kg [4]												
4,4'-DDT	**0.0033**	**7.9**	ND	ND	ND	ND	ND	ND	ND	0.0026 J	ND	ND
beta-BHC	**0.036**	**0.036**	ND	ND	ND	ND	ND	ND	ND	0.012 NJ	0.0018 J	ND
Herbicides - mg/Kg [4]												
Total Herbicides	--	--	ND	ND	ND	ND	--	ND	--	ND	ND	--
Per- and polyfluoroalkyl substances (PFAS) - ug/Kg												
Perfluoropentanoic acid (PFPeA)	--	--	ND	ND	ND	ND	--	ND	--	0.12 J	ND	--
Perfluorohexanoic acid (PFHxA)	--	--	ND	ND	ND	ND	--	ND	--	0.092 J	0.077 J	--
Perfluoroheptanoic acid (PFHpA)	--	--	ND	ND	ND	ND	--	ND	--	0.066 J	0.057 J	--
Perfluorooctanoic acid (PFOA)	**0.66**	**33**	0.18	0.15 J	ND	0.1 J	--	ND	--	0.23	0.28	--
Perfluorononanoic acid (PFNA)	--	--	0.067 J	0.074 J	ND	ND	--	ND	--	0.088 J	0.076 J	--
Perfluoroundecanoic acid (PFUnA)	--	--	ND	ND	ND	ND	--	ND	--	0.041 J	ND	--
Perfluorodecanoic acid (PFDA)	--	--	ND	0.045 J	ND	ND	--	ND	--	0.087 J	0.059 J	--
Perfluorobutanesulfonic acid (PFBS)	--	--	ND	ND	ND	ND	--	ND	--	ND	0.084 J	--
Perfluorooctanesulfonic acid (PFOS)	**0.88**	**44**	0.23	0.22	ND	0.2	--	ND	--	0.47	0.37	--

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
3. 2025 Remedial Investigation results from samples collected by Roux.
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:
ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter; Parameter not analyzed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Compound was found in the blank and sample.
F1 = MS and/or MSD recovery exceeds control limits.
F2 = MS/ MSD RPD exceeds control limits.
T = Result is a tentatively identified compound (TIC) and an estimated value.
N = Presumptive evidence of material.

Bold	= Result exceeds Unrestricted Use SCOs.
Bold	= Result exceeds Restricted Residential Use SCOs.

TABLE 4
SUMMARY OF PHASE II AND RI SUBSURFACE SOIL/FILL ANALYTICAL DATA
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT
NORTH AUD BLOCK (C915406)
BUFFALO, NEW YORK

ROUX

PARAMETER[1]	Unrestricted Use SCOs [2]	Restricted Residential Use SCOs [2]	2020 Subsurface Investigation [3]														Roux 2025 Remedial Investigation [5]									
			B-1 0.5-6.5 FT	B-2 0.5-6.5 FT	B-3 0.5-6 FT	B-4 0.5-6.5 FT	TP-4 1-3 FT	TP-4 3-5 FT	TP-7 2-4 FT	TP-8 2-4 FT	TP-10 2-4 FT	TP-12 1-3 FT	TP-18 1-3 FT	TP-19 1-3 FT	TP-20 4-6 FT	TP-21 1-3 FT	RISB-1 0.5-2.5 FT	RISB-4 0-2 FT	RISB-5 0-1 FT	RISB-6 0.5-3 FT	RISB-6 17-18 FT	RISB-7 4-8 FT	RISB-8 0.5-4 FT	RISB-9 2-4 FT	RISB-28 0-2 FT	RISB-28 5-7 FT
			6/1/2020		6/2/2020	6/3/2020	5/18/2023						6/20/2023				3/18/2025	2/17/2025	2/13/2025		2/17/2025		2/14/2025		2/11/2025	
Volatile Organic Compounds (VOCs) - mg/Kg [4]																										
2-Butanone (MEK)	**0.12**	**100**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	0.0035 J	ND	--	--	0.0037 J	--
Acetone	**0.05**	**100**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	0.018 J	0.033 J	--	--	0.018 J	--
Benzene	**0.06**	**4.8**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	--	--	ND	--
Chloroform	**0.37**	**49**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	--	--	ND	--
Methylcyclohexane	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	--	--	ND	--
Naphthalene	**12**	**100**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	0.0026 J	--	--	ND	--
Toluene	**0.7**	**100**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	--	--	ND	--
m&p-Xylene	**0.26**	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	--	--	ND	--
Total Xylenes	**0.26**	**100**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	--	--	ND	--
Total Tentatively Identified Compounds	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	--	--	ND	--
Total VOCs	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	0.0215 J	0.0356 J	--	--	0.0217 J	--
Semi Volatile Organic Compounds (SVOCs) - mg/Kg [4]																										
2-Methylnaphthalene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.18 J	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	**20**	**100**	ND	ND	ND	ND	0.058 J	ND	ND	ND	ND	1.2 J	ND	ND	ND	0.049 J	ND	ND	ND	0.19 J	ND	0.041	ND	ND	0.11 J	ND
Acenaphthylene	**100**	**100**	ND	ND	ND	ND	0.032 J	ND	ND	ND	ND	7.1	ND	ND	ND	ND	ND	ND	ND	0.19 J	ND	0.037	ND	ND	ND	ND
Anthracene	**100**	**100**	ND	ND	ND	ND	0.15 J	ND	ND	ND	ND	5.6	ND	ND	ND	0.11 J	0.42 J	0.27 J F1F2	ND	1.1	ND	0.14 J	0.29 J	ND	0.31 J	ND
Benzo(a)anthracene	**1**	**1**	0.344	ND	ND	ND	0.33	ND	ND	ND	ND	**20**	0.18 J	0.94 J	ND	0.27	1.5	0.85 J F1F2	0.33 J	**3.2**	ND	0.44	0.87 J	0.52 J	0.8 J	ND
Benzo(a)pyrene	**1**	**1**	0.306	ND	ND	ND	0.33	ND	ND	ND	ND	**20**	ND	0.71 J	ND	0.27	1.4	0.82 J F1F2	0.29 J	**2.7**	ND	0.43	0.89	0.4 J	0.77 J	ND
Benzo(b)fluoranthene	**1**	**1**	ND	ND	ND	ND	0.34	ND	ND	ND	ND	**21**	0.18 J	0.81 J	ND	0.29	1.7	0.92 F1F2	0.38 J	**3.2**	ND	0.48	1	0.56 J	**1.1**	ND
Benzo(ghi)perylene	**100**	**100**	ND	ND	ND	ND	0.17 J	ND	ND	ND	ND	9.6	0.12 J	0.34 J	ND	0.18 J	0.83 J	0.57 J F1F2	0.18 J	1.3	ND	0.22	0.5 J	0.21 J	0.56 J	ND
Benzo(k)fluoranthene	**0.8**	**3.9**	ND	ND	ND	ND	0.21	ND	ND	ND	ND	**7.5**	ND	0.4 J	ND	0.14 J	0.76 J	0.44 J F1F2	0.17 J	**1.7**	ND	0.25	0.53 J	0.26 J	0.44 J	ND
Biphenyl	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12 J	0.16 J	ND	0.16 J	ND	0.052 J	0.1 J	ND	ND	ND
Chrysene	**1**	**3.9**	0.334	ND	ND	ND	0.32	ND	ND	ND	ND	**18**	ND	0.81 J	ND	0.28	1.5	0.93 F1F2	0.33 J	**3**	ND	0.44	0.98	0.55 J	0.82 J	ND
Dibenzo(a,h)anthracene	**0.33**	**0.33**	ND	ND	ND	ND	0.063 J	ND	ND	ND	ND	**4 J**	ND	ND	ND	0.05 J	0.22 J	0.16 J F1F2	ND	**0.5 J**	ND	0.079 J	ND	ND	0.19 J	ND
Diethyl phthalate	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	**7**	**59**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.18 J	ND	0.037 J	ND	ND	0.11 J	ND
Fluoranthene	**100**	**100**	0.644	ND	ND	0.528	0.75	ND	0.028 J	ND	ND	29	0.34 J	1.5 J	ND	0.63	3.4	1.7 F1F2	0.74 J	7.2	ND	1	2	1.2	1.9	ND
Fluorene	**30**	**100**	ND	ND	ND	ND	0.053 J	ND	ND	ND	ND	2.2 J	ND	ND	ND	0.037 J	0.13 J	0.11 J	ND	0.37 J	ND	0.052 J	0.1 J	ND	0.16 J	ND
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	ND	ND	ND	ND	0.16 J	ND	ND	ND	ND	**9.3**	ND	0.37 J	ND	0.15 J	0.68 J	0.44 J F1F2	0.15 J	**1.3**	ND	0.19 J	0.42 J	0.18 J	0.48 J	ND
Naphthalene	**12**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5 J	ND	ND	ND	ND	ND	0.17 J	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**100**	**100**	0.353	ND	ND	0.652	0.64	ND	ND	ND	ND	11	0.25 J	0.69 J	ND	0.52	1.8	1.3 F1F2	0.48 J	3.5	ND	0.67 J	1.2	0.5 J	1.3	ND
Pyrene	**100**	**100**	0.565	ND	ND	0.445	0.55	ND	0.024 J	ND	ND	24	0.27 J	1.1 J	ND	0.55	3	1.5 F1F2	0.53 J	5	ND	0.83 J	1.6	0.99	1.4	ND
Total PAHs	--	--	2.546 J	0 J	0 J	1.625 J	4.156 J	0 J	0.052 J	0 J	0 J	191 J	1.34 J	7.67 J	0 J	3.526 J	17.34 J	10.18 J	3.58 J	34.45 J	0 J	5.299 J	10.38 J	5.37 J	10.34 J	0 J
TICS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.94 TJN	ND	ND	3.8 TJN	4.07 TJN	0.44 TJN	0.94 TJN	0.91 TJN	ND	ND
Metals - mg/Kg																										
Aluminum	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9280	9910	12900	7640	6840	6880	10300	10100	5430	4670
Antimony	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**13**	**16**	2.64	2.41	1.7	2.67	3.7	1.6 J	1.1 J	1.4 J	3.4	**23.7**	**107**	**33.5**	2.2 J	**63.7**	4.9	8.8	4.3	3.5	ND	8	5.2	7.3	2.5	1.8 J
Barium	**350**	**400**	66.2	47.9	36.1	205	124	36.3	41.7	82.2	95.9	262	**427**	96.7	71.7	**9720**	83.6	51.2	97.5	70.8	107	49.8	95.9	57	41.7	13.1
Beryllium	**7.2**	**72**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	0.44	0.43	0.53	0.38	0.25 J	0.43	0.5	0.49	0.25	0.19 J
Cadmium	**2.5**	**4.3**	0.317	ND	ND	0.311	0.17 J	0.14 J	0.2 J	0.35 J	0.33	0.59	0.61	0.43	0.22 J	0.39	0.39 B	0.3	0.33	0.29	0.15 J	0.21 J	0.33	0.22	0.22	0.13 J
Calcium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	42000	18100 J	65700	71200	31200	159000 J	40100	24000	53600	154000
Chromium	**30**	**180**	10.2	11.7	8.45	8.06	7.7	8.6	6.7	15.7	14.5	17.8	14	13.4	11.9	15	16	11.2	18.1 B	11.9 B	8.4 B	12.5	16.3	12.8	7.3	8.4
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.5	5	6.4	4	2	4.1	6	7.1	2.8	2.2
Copper	**50**	**270**	11.9	9.09	6.47	19.6	--	--	--	--	--	--	--	--	--	--	38.2	19 J	31.7	30.7	5.4	23.4	43.9	31	25	8.3
Iron	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15000	11900 J-	14900	11100	5930	11800	18700	20200 J-	7280	8050
Lead	**63**	**400**	33.9	21.1	9.17	44.2	**433**	28.9	33.1	20	12.9	**2780**	**11400**	**1640**	24.8	**11200**	168	**129 J**	**118**	**120**	7.9	**86.1**	**207**	27	**92.9**	6.9
Magnesium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14000 J	8930 J	20000	12900	3630	12200	10700	6290 F1	7280	88000
Manganese	**1600**	**2000**	114	145	128	155	--	--	--	--	--	--	--	--	--	--	349 F1	259 J	400	258	77.7	310	321	368 J	188	237
Mercury	**0.18**	**0.81**	**0.205**	0.143	0.126	**1.62**	**1.6**	**0.3**	0.17	**0.35**	0.15	**0.61**	**6.4 F2**	**1.5**	**0.21**	**4**	0.45	**0.41 F1**	0.13	**0.32**	0.032	**0.28 J**	**0.43**	**0.87**	**0.32 J-**	0.016 J
Nickel	**30**	**310**	9.25	7.62	7.12	6.97	--	--	--	--	--	--	--	--	--	--	16.6	12.7	15.7	12.2	6.7 J	13.8	17.4	21	7.8	6.2
Potassium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2270	1790	2960	2100	1240	1880	2580	2120 J	1240	1880
Selenium	**3.9**	**180**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.54 J	2.4 J	ND	ND	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	**2**	**180**	ND	ND	ND	ND	ND	ND	0.41 J	ND	ND	ND	0.89	ND	ND	0.26 J	ND	ND	ND	ND	ND	ND	0.31 J	ND	ND	ND
Sodium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	173	151 J	284	365	224	268	0.22	104 J	212	220
Vanadium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.8	20.3	26.1	17.1	12.3	14.2	22.4	17.3	11.5	8.8
Zinc	**109**	**10000**	64.8	103	52.2	63	--	--	--	--	--	--	--	--	--	--	125	92.7 F1	101	93.4	37.3	65.5	136	97	73.4	29.2
Polychlorinated biphenyls (PCBs) - mg/Kg [4]																										
Total PCBs	**0.1**	**1**	ND	ND	ND	ND	ND	--	--	ND	--	ND	--	--	--	--	ND	--	--	--	ND	ND	--	--	ND	--
Pesticides - mg/Kg [4]																										
4,4'-DDD	**0.0033**	**13**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	**0.0033**	**8.9**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	**0.0033**	**7.9**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	**0.0096 J**	ND	ND	ND	ND	ND	ND
Endosulfan I	**2.4**	**24**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	**2.4**	**24**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	**2.4**	**24**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	0.0035 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	**0.014**	**11**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	0.0042 J	ND	ND
Methoxychlor	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Herbicides - mg/Kg [4]																										
Total Herbicides	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	--	--	ND	--
Per - and Polyfluoroalkyl Substances (PFAS) - ug/Kg																										
Perfluorobutanoic acid (PFBA)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.22 J	--	--	--	ND	ND	--	--	ND	--
Perfluoropentanoic acid (PFPeA)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	0.1 J	--	--	ND	--
Perfluorohexanoic acid (PFHxA)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	0.057 J	--	--	ND	--
Perfluorooctanoic acid (PFOA)	**0.66**	**33**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 J	--	--	--	ND	0.057 J	--	--	0.052 J	--
Perfluoroundecanoic acid (PFUnA)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND		--	--	ND	0.041 J	--	--	ND	--
Perfluorodecanoic acid (PFDA)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	--	--	0.039 J	--
Perfluorooctanesulfonic acid (PFOS)	**0.88**	**44**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.097 J	--	--	--	ND	0.16	--	--	0.086 J	--
PFOA+PFOS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.147 J	--	--	--	ND	0.217 J	--	--	0.138 J	--
Total PFAS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.367 J	--	--	--	ND	0.415 J	--	--	0.177 J	--

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
3. 2020 Subsurface Investigation results from Sienna Environmental Technologies Environmental Review Addendum (July 2020); 2023 Subsurface Investigation results froms samples collected by Roux.
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.
5. 2025 Subsurface Investigation results from samples collected by Roux.

Definitions:

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F1 = MS and/or MSD recovery exceeds control limits.
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Bold	= Result exceeds Unrestricted SCOs.
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TABLE 4
SUMMARY OF PHASE II AND RI SUBSURFACE SOIL/FILL ANALYTICAL DATA
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT
NORTH AUD BLOCK (C915406)
BUFFALO, NEW YORK

ROUX

PARAMETER[1]	Unrestricted Use SCOs [2]	Restricted Residential Use SCOs [2]	Roux 2025 Remedial Investigation 5																								
			TP-30 2-3 FT	TP-31 2-4 FT	TP-31 7-8 FT	TP-31 10-11 FT	TP-32 2-3 FT	TP-33 1-5 FT	TP-33 5-9 FT	TP-33 10-11 FT	TP-34 0-4 FT	TP-34 5-6 FT	TP-34 6-8 FT	TP-34 13-15 FT	MW-1 1.5-4.25 FT	MW-1 5-7 FT	MW-1 12-15 FT	MW-2 0.5-3 FT	MW-2 5-8 FT	MW-2 12-15 FT	MW-3 0-2 FT	MW-4 0.5-2 FT	MW-4 5-8 FT	MW-4 12-15 FT	MW-5 2.5-4 FT	MW-6 4-5 FT
			2/11/2025	2/12/2025							2/12/2025				2/11/2025			2/12/2025			2/13/2025	2/11/2025			2/14/2025	
Volatile Organic Compounds (VOCs) - mg/Kg [4]																											
2-Butanone (MEK)	**0.12**	**100**	--	ND	--	--	ND	0.0048 J	ND	ND	ND	ND	--	--	--	--	--	ND	ND	0.004 J	--	ND	--	--	0.0054 J	--
Acetone	**0.05**	**100**	--	ND	--	--	ND	0.029 J+	0.021 J	ND	ND	0.0076 J	--	--	--	--	--	ND	0.011 J	0.014 J	--	ND	--	--	0.028 J	--
Benzene	**0.06**	**4.8**	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	0.00043 J	ND	--	ND	--	--	ND	--
Chloroform	**0.37**	**49**	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	ND	ND	--	ND	--	--	ND	--
Methylcyclohexane	--	--	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	0.00094 J	ND	--	ND	--	--	ND	--
Naphthalene	**12**	**100**	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	ND	ND	--	ND	--	--	ND	--
Toluene	**0.7**	**100**	--	ND	--	--	ND	ND	0.00074 J	ND	ND	ND	--	--	--	--	--	ND	0.0011 J	0.00071 J	--	ND	--	--	ND	--
m&p-Xylene	**0.26**	--	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	0.00086 J	ND	--	ND	--	--	ND	--
Total Xylenes	**0.26**	**100**	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	0.00086 J	ND	--	ND	--	--	ND	--
Total Tentatively Identified Compounds	--	--	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	0.0057 TJ	ND	ND	--	ND	--	--	ND	--
Total VOCs	--	--	--	0 J	--	--	0 J	0.0338 J	0.02174 J	0 J	0 J	0.0076 J	--	--	--	--	--	0.0057 J	0.01519 J	0.01871 J	--	0 J	--	--	0.0334 J	--
Semi Volatile Organic Compounds (SVOCs) - mg/Kg [4]																											
2-Methylnaphthalene	--	--	ND	ND	ND	ND	0.57 J	0.19 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	**20**	**100**	ND	ND	ND	ND	1.4	0.47 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31 J	0.092 J	ND	ND	ND	1.4 J
Acenaphthylene	**100**	**100**	ND	ND	ND	ND	0.42 J	0.21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25 J	0.027 J	ND	ND	ND	0.71 J
Anthracene	**100**	**100**	ND	ND	ND	ND	3.7	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.059 J	ND	ND	1.1	0.25	ND	ND	ND	3.3 J
Benzo(a)anthracene	**1**	**1**	ND	0.4 J	ND	ND	**6.4**	**3.2**	ND	ND	0.1 J	0.12 J	ND	ND	ND	ND	ND	0.17 J	ND	ND	**3**	0.5	ND	ND	0.61 J	**8**
Benzo(a)pyrene	**1**	**1**	ND	0.39 J	ND	ND	**5.5**	**3**	ND	ND	0.11 J	ND	ND	ND	ND	ND	ND	0.16 J	ND	ND	**2.7**	0.46	0.27	ND	0.53 J	**7.2**
Benzo(b)fluoranthene	**1**	**1**	ND	0.48 J	ND	ND	**6.3**	**3.6**	ND	ND	0.14 J	ND	ND	ND	ND	ND	ND	0.19	ND	ND	**3.3**	0.57	ND	ND	0.69 J	**8.3**
Benzo(ghi)perylene	**100**	**100**	ND	0.26 J	ND	ND	2.9	1.5	ND	ND	0.077 J	ND	ND	ND	ND	ND	ND	0.094	ND	ND	1.5	0.31 F2	ND	ND	0.29 J	3.8
Benzo(k)fluoranthene	**0.8**	**3.9**	ND	0.23 J	ND	ND	**3.3**	**1.5**	ND	ND	0.066 J	ND	ND	ND	ND	ND	ND	0.1	ND	ND	**1.6**	0.24	ND	ND	0.34 J	**4.3**
Biphenyl	--	--	ND	ND	ND	ND	0.18 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.033 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	--	--	ND	ND	ND	ND	1.2	0.38 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.025 J	ND	ND	0.36 J	0.096 J	ND	ND	ND	1.4 J
Chrysene	**1**	**3.9**	ND	0.4 J	ND	ND	**6.3**	**3.1**	ND	ND	0.12 J	ND	ND	ND	ND	ND	ND	0.18	ND	ND	**3**	0.52	ND	ND	0.67 J	**7.4**
Dibenzo(a,h)anthracene	**0.33**	**0.33**	ND	ND	ND	ND	**0.94 J**	**0.48 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.53 J**	0.11 J	ND	ND	ND	**1.1 J**
Diethyl phthalate	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	**7**	**59**	ND	ND	ND	ND	1.4	0.32 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24 J	0.057 J	ND	ND	ND	1.1 J
Fluoranthene	**100**	**100**	ND	0.9 J	ND	ND	15	6.2	ND	ND	0.2 J	0.22	ND	ND	ND	ND	ND	0.38	ND	ND	6.8	1.1	ND	ND	1.5	20
Fluorene	**30**	**100**	ND	ND	ND	ND	1.9 J	0.45 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.024 J	ND	ND	0.4 J	0.1 J	ND	ND	ND	1.6 J
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	ND	0.21 J	ND	ND	**2.5 J**	**1.3**	ND	ND	0.066 J	ND	ND	ND	ND	ND	ND	0.074 J	ND	ND	**1.4**	0.27 J	ND	ND	0.23 J	**3.1 J**
Naphthalene	**12**	**100**	ND	ND	ND	ND	0.55	0.18 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.18 J	ND	ND	ND	ND	0.88 J
Phenanthrene	**100**	**100**	ND	0.56 J	ND	ND	15	4.7	ND	ND	0.11 J	0.15 J	ND	ND	ND	ND	ND	0.26	ND	ND	4.1	1 F2	ND	ND	1.4	16
Pyrene	**100**	**100**	ND	0.71 J	ND	ND	12	5.8	ND	ND	0.17 J	0.17 J	ND	ND	ND	ND	ND	0.32	ND	ND	5.2	1.1 J	ND	ND	1.1 J	16
Total PAHs	--	--	0 J	4.54 J	0 J	0 J	84.11 J	30.39 J	0 J	0 J	1.159 J	0.66 J	0 J	0 J	0 J	0 J	0 J	2.011 J	0 J	0 J	35.37 J	6.649 J	0.27 J	0 J	7.36 J	103.09 J
TICS	--	--	10.34 TJN	4.2 TJ	0.32 TJN	2.83 TJ	24.53 TJN	6.55 TJ	ND	0.29 TJN	2.71 TJN	ND	0.38 TJ	0.26 TJ	7.78 TJN	0.44 TJN	ND	1.38 TJN	ND	ND	2.8	12.05 TJN	1.77 TJN	ND	1.2 TJN	11.2 TJN
Metals - mg/Kg																											
Aluminum	--	--	9740	5330	7180	3680	9460	7030	6910	4330	19400	5100	11000	7550	8480	8390	3740	5620	5020	3790	9250	6400	4380	5700	13400	11900
Antimony	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3 J	ND	ND	ND	ND
Arsenic	**13**	**16**	1.3 J	2.3	ND	1.4 J	12.9	**15.1**	ND	2.1 J	4.4	7.7	1.2 J	ND	ND	1.2 J	ND	ND	1.1 J	2.9	4.7	5.6	ND	ND	10.1	4
Barium	**350**	**400**	49.4	**500**	28.6	9.9	157	144	18	11.4	124	102	57.8 J	28.3	29.7	53.5	13.7	31.6	15.4	14.9	83.8	101	17.3	16.1	135	93.5
Beryllium	**7.2**	**72**	0.37	0.22	0.25	0.17 J	0.49	0.39	0.32	0.2 J	0.84	0.25	0.38 J	0.32	0.33	0.39	0.17 J	0.2 J	0.22 J	0.19 J	0.45	0.33	0.17 J	0.25	0.61	0.72
Cadmium	**2.5**	**4.3**	0.24	0.16 J	ND	0.18 J	0.9	0.47	ND	0.16 J	0.29	0.24 J	0.1 J	0.28	0.23 J	0.24	0.2 J	0.14 J	0.11 J	0.12 J	0.62	0.32	0.13 J	0.2 J	0.29 J	0.42
Calcium	--	--	11600	43600	1160	87800	36700	42200	101000	82800	28700	79900	1040 J	1360	24800	945	55900	28000	99800	88200	34300	280000	5100	82600	66100	26200
Chromium	**30**	**180**	10.9	7	6.6	4.4	16.4	12.2	9.1	5.3	22.9	9.4	12.4 J	9	18.1	9.7	5	6.6	6.7	4.9	16.6 B	13.4	5.9	8	17.7	15.3
Cobalt	--	--	4.2	2.8	2.2	1.8	8	5.3	3.1	1.9	10.3	4.3	4.4 J	3.1	3.2	4.1	2.1	2.2	2.5	4.3	5.1	3.8	1.5	2.5	5	4.9
Copper	**50**	**270**	7.6	14.9	3.8	6.5	**211**	**92.3**	10.8	6.3	36.7	**54.4**	3.8 J	9	7.8	12.4	8.5	5.9	9.9	9.7	49	**50.9**	1.9	8.9	40.8	29.1
Iron	--	--	8570	7100	4680	5540	21200	13400 J	6980	5990	22900	10800	11500 J	4940	10100	6580	5540	8400	6410	6250	15400	11700	3780	6330	21100	15100
Lead	**63**	**400**	13.7	54.7	6.8	5.9	**1450**	**683**	9.4	6.3	**82.3**	**2240**	6.7 J	10.2	10	11.4	6	15.8	6.4	5.3	**185**	**464**	5.8	7.6	**448**	**110**
Magnesium	--	--	6600	8710	1580	42700	9310	11300	61700	44300	11700	19200	2090 J	1710	11500	2240	31600	10700	49600	40400	11300	6260	1760	55300	7370	5240
Manganese	**1600**	**2000**	114	446	39.8	244	303	277 J	156	241	382	254	63.9 J	43.9	255	41.7	162	138	226	234	280	192	41.2	182	279	313
Mercury	**0.18**	**0.81**	0.12	**0.31**	0.0079 J	0.062	**5.7**	**1.6**	0.065	0.056	0.12	**7.2**	0.0078 J	0.015 J	0.035	0.034	0.0091 J	0.031	0.014 J	0.011 J	**0.23**	**1.3**	ND	0.016 J	**0.96**	**0.49**
Nickel	**30**	**310**	10.2	7.9	7.3	5.2 J	18.6	13.3	8.8	5.8 J	23.3	8.9	11.7 J	8.8	7.7	8.6	5.1 J	5 J	6.5	7.4	16.6	10.6	4.9 J	7.3	11.7	15.7
Potassium	--	--	1900	1160	1050	1410	2150	1530	2680	1630	4100	1250	1420 J	1500	1600	1700	1300	963	1880	1490	2390	1350	747	2120	2380	2320
Selenium	**3.9**	**180**	ND	ND	ND	0.94 J	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND	ND	ND	**1 J**	**1 J**	ND	ND	ND
Silver	**2**	**180**	ND	ND	ND	ND	0.55 J	0.42 J	ND	ND	0.44 J	0.26 J	0.26 J	ND	ND	ND	ND	ND	ND	ND	0.24 J	ND	ND	ND	0.45 J	ND
Sodium	--	--	166	244	123 J	246	307	216	209	289	169 J	217	97.7 J	114 J	189	167	224	125 J	200	290	273	179	99.8 J	244	1360	184
Vanadium	--	--	19.5	10.5	9.4	7.4	21.5	16.9	13.4	8.2	34.7	13	20.3 J	14	14.7	16.7	8.1	11.5	9.9	8.7	19.5	13.9	9	11	33.4	21.6
Zinc	**109**	**10000**	67.4	84.9	47.4	24.9	**883**	**321**	29.7	27.3	84.1	**120**	45.5 J	74.7	43.8	92.1	34	39.6	31.9	42.5	**127**	**175**	30.4	36.6	**127**	**128**
Polychlorinated biphenyls (PCBs) - mg/Kg [4]																											
Total PCBs	**0.1**	**1**	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	ND	ND	--	ND	--	--	ND	--
Pesticides - mg/Kg [4]																											
4,4'-DDD	**0.0033**	**13**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0029 J	ND	ND	ND	ND
4,4'-DDE	**0.0033**	**8.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	**0.0033**	**7.9**	ND	ND	ND	ND	**0.0068 J**	**0.0056 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.029 J**
Endosulfan I	**2.4**	**24**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	**2.4**	**24**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	**2.4**	**24**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	**0.014**	**11**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02 J
Methoxychlor	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Herbicides - mg/Kg [4]																											
Total Herbicides	--	--	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	ND	ND	--	ND	--	--	ND	--
Per - and Polyfluoroalkyl Substances (PFAS) - ug/Kg																											
Perfluorobutanoic acid (PFBA)	--	--	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	ND	ND	--	ND	--	--	ND	--
Perfluoropentanoic acid (PFPeA)	--	--	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	ND	ND	--	ND	--	--	ND	--
Perfluorohexanoic acid (PFHxA)	--	--	--	0.065 J	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	ND	ND	--	ND	--	--	ND	--
Perfluorooctanoic acid (PFOA)	**0.66**	**33**	--	0.057 J	--	--	0.044 J	ND	ND	ND	ND	0.038 J	--	--	--	--	--	ND	ND	ND	--	ND	--	--	0.062 J	--
Perfluoroundecanoic acid (PFUnA)	--	--	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	ND	ND	--	ND	--	--	ND	--
Perfluorodecanoic acid (PFDA)	--	--	--	ND	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND	ND	ND	--	ND	--	--	ND	--
Perfluorooctanesulfonic acid (PFOS)	**0.88**	**44**	--	0.12 J	--	--	0.1 J	0.13 J	ND	0.051 J	0.051 J	0.056 J	--	--	--	--	--	0.037 J	0.044 J	ND	--	0.076 J	--	--	0.11 J	--
PFOA+PFOS	--	--	--	0.177	--	--	0.144	0.13 J	ND	0.051 J	0.051 J	0.094 J	--	--	--	--	--	0.037 J	0.044 J	ND	--	0.076 J	--	--	0.172	--
Total PFAS	--	--	--	0.242 J	--	--	0.144 J	0.13 J	ND	0.051 J	0.051 J	0.094 J	--	--	--	--	--	0.037 J	0.044 J	ND	--	0.076 J	--	--	0.172 J	--

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
3. 2020 Subsurface Investigation results from Sienna Environmental Technologies Environmental Review Addendum (July 2020); 2023 Subsurface Investigation results froms samples collected by Roux.
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.
5. 2025 Subsurface Investigation results from samples collected by Roux.

Definitions:

ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter; Parameter not analyzed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
J+ = Estimated value, biased high.
J- = Estimated value; biased low.
F1 = MS and/or MSD recovery exceeds control limits.
F2 = MS/ MSD RPD exceeds control limits.
T = Result is a tentatively identified compound (TIC) and an estimated value.
N = Presumptive evidence of material.

Bold	= Result exceeds Unrestricted SCOs.
Bold	= Result exceeds Restricted Residential SCOs.

TABLE 5
SUMMARY OF RI TCLP ANALYTICAL DATA
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT
NORTH AUD BLOCK (C915406)
BUFFALO, NEW YORK

PARAMETER	Characteristic Hazardous Waste Threshold[1] (mg/L)	RISB-2 (1-4 ft)	RISB-3 (0.5-3 ft)	TP-34 (5-6 ft)	TP-32 (2-3 ft)	WC-1	WC-2	WC-3	WC-4	WC-5
		2/11/2025		2/12/2025		2/18/2025				
TCLP Lead - mg/L										
Lead	**5**	**9.1**	0.051	0.2	2.7	0.66 ^+	2.2 ^+	0.046	0.049	1.4

Notes:

1. TCLP/Haz Waste Regulatory Levels per 40 CFR 261, Appendix II, 1993 ed., as amended by 58 FR 46040, August 31, 1993.

Definitions:

^+ = Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

Exceeds Haz Waste Threshold

ROUX

TABLE 6
SUMMARY OF RI GROUNDWATER ANALYTICAL DATA
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT
NORTH AUD BLOCK (C915406)
BUFFALO, NEW YORK

PARAMETER [1]	NYSDEC Class GA GWQS [2]	Monitoring Well Location					
		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
		2/27/2025					
TCL Volatile Organic Compounds (VOCs) - ug/L							
Methylcyclohexane	--	ND	ND	0.3 J	ND	ND	ND
Trichloroethene	**5**	0.54 J	ND	ND	ND	ND	ND
Total VOC TICs	--	ND	ND	ND	ND	ND	ND
TCL Semi-Volatile Organic Compounds (SVOCs) - ug/L							
Acetophenone	-	0.9 J	ND	ND	ND	ND	0.55 J
Total SVOC TICs	--	ND	ND	180 T J N	ND	ND	ND
Semi-Volatile Organic Compounds 8270 (SIM) [3] - ug/L							
1,4 - Dioxane	**0.35**	0.22 J+	ND	0.22 J+	ND	0.27 J+	ND
TAL Metals - ug/L [4] (Total)							
Aluminum	--	7200	480 J	3100	220	3800	1600
Barium	**1,000**	190	150	340	130	100	78
Beryllium	**3**	0.34 J	ND	0.3 J	ND	ND	ND
Calcium	--	122000	143000	166000	157000	148000	215000
Chromium	**50**	8.2	ND	4	ND	5.1	2.4 J
Cobalt	--	18	3.3 J	11	2.9 J	3.7 J	1.5 J
Copper	**200**	23	4.1 J	17	2.6 J	19	5.3 J
Iron	**300**	**9400**	**1000 J**	**4500**	300	**4600**	**1800**
Lead	**25**	23	4 J	21	ND	**36**	5.5 J
Magnesium	**35,000**	**39300**	**47400**	**59700**	**44600**	34600	**38700**
Manganese	**300**	**1000**	210 F1	**1200**	**540**	260	270
Nickel	**100**	20	5.6 J	12	3.3 J	6.6 J	3.2 J
Potassium	--	16000	36600	15700 ^+^2	42600 ^+^2	6200 ^+	22200 ^+^2
Sodium	**20,000**	**347000**	**530000**	**413000**	**450000**	**72500**	**106000**
Vanadium	--	12	ND	7.9	ND	10	5.7
Zinc	**5,000**	82	ND	36	ND	100	20
Mercury	**0.7**	ND	ND	ND	ND	0.045 J	ND
TAL Metals - ug/L [4] (Dissolved)							
Barium	**1,000**	110	140	310	130	65	72
Calcium	--	88000 ^5-	140000 ^5-	124000	156000	122000	206000
Cobalt	--	4.2	2.5 J	3.1 J	2.7 J	1.3 J	0.74 J
Copper	**200**	ND	ND	ND	ND	3.3 J^5+	2.3 J^5+
Iron	**300**	ND	ND	ND	ND	29 J^5-	29 J^5-
Lead	**25**	3.6 J	4.8 J	3.4 J	3.2 J	3.9 J	ND
Magnesium	**35,000**	25300	**45800**	**35200**	**44000**	21500	**36200**
Manganese	**300**	**500 B**	170 B	**720 B**	**520 B**	100 B	250 B
Nickel	**100**	3 J	3.8 J	3.1 J	2.4 J	2 J	ND
Potassium	--	11800	36200	15600	41800	5300	21700
Sodium	**20,000**	**324000**	**538000**	**451000**	**452000**	**75500**	**107000**
Vanadium	--	ND	ND	ND	ND	ND	2.3 J
Zinc	**5,000**	ND	6.3 J^5-B	ND	ND	20 ^5-B	2.3 J^5-B
Organochlorine Pesticides ug/L							
delta-BHC	**0.04**	ND	ND	ND	0.011 J	ND	ND
Herbicides ug/L							
Herbicides	--	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (PCBs) ug/L							
Total PCBs	**0.09**	ND	ND	ND	ND	ND	ND
Perfluorinated Alkyl Acids - ng/L							
Perfluorobutanoic Acid (PFBA)	--	13	12	17 J	15	10	6.4 J
Perfluoropentanoic Acid (PFPeA)	--	9.1	15	8.8 J	14	10	4.4
Perfluorohexanoic Acid (PFHxA)	--	4.3	8.2	4.2 J	6.3	8.5	5.5
Perfluoroheptanoic Acid (PFHpA)	--	1.3 J	2.4	1.3 J	1.5 J	1.5 J	3.1
Perfluorooctanoic Acid (PFOA)	**6.7**	3.7	6.6	4.1 J	5.4	3.1	**12**
Perfluorononanoic Acid (PFNA)	--	1 EMPC	ND	ND	ND	ND	ND
Perfluorodecanoic Acid (PFDA)	--	0.99 J	ND	ND	ND	ND	ND
Perfluorobutanesulfonic Acid (PFBS)	--	1.6 J	2	1.8 J	2.4	24	2.3
Perfluorohexanesulfonic Acid (PFHxS)	--	1.2 J	1.8	1.4 J	1.9	0.51 J	2.5
Perfluorooctanesulfonic Acid (PFOS)	**2.7**	1.7 J	0.95 J	1.7 J	1.2 J	1.7 J	2.4 EMPC
1H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid (8:2FTS)	--	2.3 J	ND	ND	ND	ND	ND

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS).
3. Extraction methodology of Selective Ion Monitoring (SIM) was used for 1,4-dioxane.
4. Sample results were reported by the laboratory in milligrams per liter (mg/L) and converted to micrograms per liter (ug/L) for comparison to GWQS.

Definitions:
ND = Parameter not detected above laboratory detection limit.
-- = Sample not analyzed for parameter and/or no SCO available.
B = Compound was found in the blank and sample
F1 = MS and/or MSD recovery exceeds control limits.
F2 =MS/MSD RPD exceeds control limits
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
J+ = Result is estimated, biased high.
EMPC = Result is estimated maximum possible concentration.
N = Presumptive evidence of analyte; result should be used with caution as a potential false positive and/or elevated quantitative value.
T = Result is a tentitively identified compound (TIC) and an estimated value.
^+ = Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2 = Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^5- = Linear Range Check (LRC) is outside acceptance limits, low biased.
^5+ =Linear Range Check (LRC) is outside acceptance limits, high biased.

Exceeds NYSDEC Class GA GWQS

TABLE 7
SUMMARY OF RI SOIL VAPOR AND OUTDOOR AIR ANALYTICAL DATA
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT
NORTH AUD BLOCK (C915406)
BUFFALO, NEW YORK

PARAMETER[1]	SV-1	SV-2	SV-3	SV-4	SV-5	OA-1
	4/2/2025	4/2/2025	2/26/2025	4/2/2025	4/2/2025	2/26/2025
Volatile Organic Compounds (VOCs, ug/m^3)						
1,1,1-Trichloroethane (Matrix B)	ND< 1.1	R	ND< 3.3	ND< 1.1	ND< 1.1	ND< 1.1
1,1,2-Trichlorotrifluoroethane	0.49 J-	R	ND< 4.6	ND< 1.5	ND< 1.5	0.46 J
1,1-Dichloroethene (Matrix A)	ND< 0.2	R	ND< 0.6	ND< 0.2	ND< 0.2	ND< 0.2
1,2,4-Trimethylbenzene (Matrix D)	ND< 0.98	R	13 D	ND< 0.98	0.42 J	7
1,3,5-Trimethylbenzene (Matrix D)	ND< 0.98	R	2.3 JD	ND< 0.98	ND< 0.98	2.1
1,3-Dichlorobenzene	ND< 1.2	R	2.1 JD	ND< 1.2	ND< 1.2	ND< 1.2
1,4-Dioxane	ND< 18	R	ND< 54	1.2 J	ND< 18	ND< 18
2,2,4-Trimethylpentane (Matrix D)	13 J-	R	3.2 D	ND< 0.93	ND< 0.93	0.54 J
4-Ethyltoluene	ND< 0.98	R	2.3 JD	ND< 0.98	ND< 0.98	1.7
4-Isopropyltoluene	ND< 1.1	R	ND< 0.33	ND< 1.1	ND< 1.1	1.3
Acetone	11 J-	R	150 D	10 J	13 D	28
Benzene (Matrix D)	0.48 J-	R	2 D	0.2 J	0.18 J	11
Carbon Disulfide	ND< 1.6	R	ND< 4.7	1.9	ND< 1.6	ND< 1.6
Carbon Tetrachloride (Matrix A)	0.41 J-	R	ND< 0.66	0.2 J	0.18 J	0.34
Chlorodifluoromethane (Freon 22)	1.3 J-	R	2.3 JD	ND< 1.8	ND< 1.8	2.1
Chloroform	0.61 J-	R	0.72 D	1.4	0.7 J	0.6 J
Chloromethane	1.3 J-	R	ND< 3.1	ND< 1	ND< 1	3.7
cis-1,2-Dichloroethene (Matrix A)	ND< 0.2	R	ND< 0.6	ND< 0.2	ND< 0.2	ND< 0.2
Cyclohexane (Matrix D)	2.4 J-	R	40	ND< 0.69	ND< 0.69	0.29 J
Cumene	ND< 0.98	R	ND< 2.9	ND< 0.98	ND< 0.98	3
Dichlorodifluoromethane	2.2 J-	R	2.7 JD	2.3 J	2.4 J	2.3 J
Ethylbenzene (Matrix D)	ND< 0.87	R	4.2 D	ND< 0.87	ND< 0.87	11
Isopropyl alcohol	ND< 12	R	ND< 37	ND< 12	ND< 12	5.3 J
m&p-Xylene (Matrix E)	0.34 J-	R	16 JD	1.1 J	0.35 J	11
Methyl Ethyl Ketone	0.86 J-	R	26 D	0.85 J	1.7 D	7.9
Methylene chloride (Matrix B)	ND< 1.7	R	ND< 5.2	ND< 1.7	ND< 1.7	1.6 J
Naphthalene (Matrix D)	ND< 2	R	ND< 6	ND< 2	ND< 2	6.8
n-Butane	7.1 J-	R	33 JD	ND< 1.2	1.1 J	2.9
n-Heptane (Matrix E)	1.5 J-	R	18 D	ND< 0.82	ND< 0.82	0.78 J
n-Hexane (Matrix E)	8.5 J-	R	32 D	ND< 1.8	ND< 1.8	0.95 J
n-Propylbenzene	ND< 0.98	R	1.4 JD	ND< 0.98	ND< 0.98	1.5
o-Xylene (Matrix D)	ND< 0.87	R	6.9 JD	0.41 J	ND< 0.87	4.6
Styrene	0.38 J-	R	ND< 2.5	ND< 0.85	0.35 J	ND< 0.85
Tetrachloroethene (Matrix B)	ND< 1.4	R	ND< 4.1	0.27 J	ND< 1.4	ND< 1.4
Toluene (Matrix F)	0.43 J-	R	18 D	0.98	0.47 J	3.9
Trichlorofluoromethane	1.2 J-	R	2 D	6.8	1.1	2.4
Vinyl chloride (Matrix C)	ND< 0.2	R	ND< 0.6	ND< 0.2	ND< 0.2	ND< 0.2

Notes:

1. Only those parameters detected above the method detection limit, at a minimum of one location, are presented in this table.

Definitions:

ND = Parameter not detected above laboratory detection limit.
ug/m^3 = micrograms per cubic meter
J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J- = Result is estimated, biased low.
D = Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
R = Result rejected by third-party validator.

blue	=one of 21 compounds regulated by the NYSDOH Guidance for Evaluating Soil Vapor Intrusio in the State of New York (May 2017, February 2024)

TABLE 8
STANDARDS, CRITERIA, AND GUIDANCE (SCGs)
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
NORTH AUD BLOCK SITE (C915406)
BUFFALO, NEW YORK

Citation	Title	Regulatory Agency
General		
29CFR 1910.120	Hazardous Waste Operations and Emergency Response	US Dept. of Labor, OSHA
29CFR 1910.1000	OSHA General Industry Air Contaminants Standard	US Dept. of Labor, OSHA
29CFR 1926	Safety and Health Regulations for Construction	US Dept. of Labor, OSHA
Not Applicable	Analytical Services Protocol	NYSDEC
6NYCRR Part 608	Use and Protection of Waters	NYSDEC
6NYCRR Part 621	Uniform Procedures Regulations	NYSDEC
6NYCRR Parts 750-757	State Pollutant Discharge Elimination System	NYSDEC
Not Applicable	New York State Stormwater Management Design Manual	NYSDEC
Section 404	Clean Water Act	USACE
Soil/Fill		
6NYCRR Part 375	Environmental Remediation Programs	NYSDEC
DEC Policy CP-51	Soil Cleanup Guidance	NYSDEC
Groundwater		
6NYCRR Part 700-705	Surface Water and Ground Water Classification Standards	NYSDEC
TOGS 1.1.1	Ambient Water Quality Standards and Guidance Values	NYSDEC
TOGS 2.1.3	Primary and Principal Aquifer	NYSDEC
Air		
DER-10 Appendix 1B	Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites	NYSDEC
NYSDOH, October 2006	Final - Guidance for Evaluating Soil Vapor Intrusion in the State of NY	NYSDOH
Solid Waste		
6NYCRR 360	Solid Waste Management Facilities	NYSDEC
6NYCRR 364	Waste Transporters	NYSDEC

TABLE 9
PRELIMINARY COST ESTIMATE FOR TRACK 4 RESTRICTED RESIDENTIAL USE

NORTH AUD BLOCK SITE

Item	Units	Unit	Unit Cost	Total Cost
AOC-1 (TP-31 Metals Area)				
Excavate Soils/Transport to LF	Tons	960	$ 25	$ 24,000
Dispose of Soils	Tons	960	$ 30	$ 28,800
Backfill Material	Tons	1,056	$ 20.00	$ 21,120
Place and Compact Backfill	Tons	1,056	$ 10.00	$ 10,560
Post-Excavation/Analytical Testing	EST	1	$ 4,000	$ 4,000
Data Validation	EST	1	$ 1,000	$ 1,000
Groundwater or accumulated precipitation	EST	1	$ 20,000	$ 20,000
Total Estimated Cost				**$ 110,000**
AOC-2 (TP-32, TP-24/SS-10 SVOC and Metal Area)				
Excavate Soils/Transport to LF	Tons	665	$ 25	$ 16,625
Dispose of Soils	Tons	665	$ 30	$ 19,950
Backfill Material	Tons	732	$ 20.00	$ 14,630
Place and Compact Backfill	Tons	732	$ 10.00	$ 7,315
Post-Excavation/Analytical Testing	EST	1	$ 7,500	$ 7,500
Data Validation	EST	1	$ 2,000	$ 2,000
Groundwater or accumulated precipitation	EST	1	$ 20,000	$ 20,000
Total Estimated Cost				**$ 89,000**
AOC-3 (RISB-2, TP-18, TP-19, MW-4, SS-4 Metals Area)				
RI-SB-2 Hazardous Lead Area				
Delineation Activities	EST	1	$ 15,000	$ 15,000
Treatability Testing	EST	1	$ 10,000	$ 10,000
Stabilizing Agent	EST	1	$ 30,000	$ 30,000
Stabilize Soils	Tons	250	$ 50	$ 12,500
Excavate and Transport Stabilized Soils	Tons	250	$ 25	$ 6,250
Dispose of Stabilized Soils	Tons	250	$ 30	$ 7,500
Backfill Material	Tons	275	$ 20.00	$ 5,500
Place and Compact Backfill	Tons	275	$ 10.00	$ 2,750
Post-Excavation Confirmatory Sampling	EST	1	$ 2,500	$ 2,500
Data Validation	EST	1	$ 750	$ 750
Remaining NH Areas				
Excavate Soils/Transport to LF	Tons	460	$ 25	$ 11,500
Dispose of Soils	Tons	460	$ 30	$ 13,800
Backfill Material	Tons	506	$ 20.00	$ 10,120
Place and Compact Backfill	Tons	506	$ 10.00	$ 5,060
Post-Excavation/Analytical Testing	EST	1	$ 7,500	$ 7,500
Data Validation	EST	1	$ 2,000	$ 2,000
Groundwater or accumulated precipitation	EST	1	$ 20,000	$ 20,000
Total Estimated Cost				**$ 163,000**
AOC-4 (TP-34 Metals Area)				
Excavate Soils/Transport to LF	Tons	320	$ 25	$ 8,000
Dispose of Soils	Tons	320	$ 30	$ 9,600
Backfill Material	Tons	352	$ 20.00	$ 7,040
Place and Compact Backfill	Tons	352	$ 10.00	$ 3,520
Post-Excavation/Analytical Testing	EST	1	$ 500	$ 500
Data Validation	EST	1	$ 300	$ 300
Groundwater or accumulated precipitation	EST	1	$ 20,000	$ 20,000
Total Estimated Cost				**$ 49,000**
AOC-5 (TP-21, RISB-3 Metals Area)				
Excavate Soils/Transport to LF	Tons	270	$ 25	$ 6,750
Dispose of Soils	Tons	270	$ 30	$ 8,100
Backfill Material	Tons	297	$ 20.00	$ 5,940
Place and Compact Backfill	Tons	297	$ 10.00	$ 2,970
Post-Excavation/Analytical Testing	EST	1	$ 500	$ 500
Data Validation	EST	1	$ 300	$ 300
Groundwater or accumulated precipitation	EST	1	$ 20,000	$ 20,000
Total Estimated Cost				**$ 45,000**
Cover System				
Asphalt Parking Lot	Sq Ft	8,200	$ 5	$ 41,000
Prepare Subgrade	EST	1	$ 1,000	$ 1,000
Import, Place, Grade Clean Soil	EST	1	$ 10,000	$ 10,000
Analytical Testing of Soil Source(s)	EST	1	$ 30,000	$ 30,000
Hydroseed	EST	1	$ 2,500	$ 2,500
Total Estimated Cost				**$ 84,500**
			Subtotal Cost	**$ 540,500**
Groundwater Monitoring				
Sampling and Reporting (5 years)	EA	5	$ 15,000	$ 75,000
Total Estimated Cost				**$ 75,000**
Contractor Mobilization/Demobilization (5%)				$ 27,025
Health and Safety (2%)				$ 10,810
Engineering, Oversight and Reporting (25%) + Contingency (10%)				$ 189,175
			Total Estimated Costs	**$ 850,000**

NOTES:
1) Assumed cleanup track is Restricted Residential Track 4 with a soil cover system.
2) A remedy has not been approved by NYSDEC; this assessment assumes only the areas identified require remediation.
3) The final remedy will be established in NYSDEC-issued Decision Document, upon NYSDEC review and approval of the Remedial Investigation/Alternatives Analysis Report and 45-day public comment period.

ROUX

TABLE 10
PRELIMINARY COST ESTIMATE FOR TRACK 1 UNRESTRICTED USE

NORTH AUD BLOCK SITE

Item	Units	Unit	Unit Cost	Total Cost
TP-18RI-SB-2 Hazardous Lead Area				
Delineation Activities	EST	1	$ 15,000	$ 15,000
Treatability Testing	EST	1	$ 10,000	$ 10,000
Stabilizing Agent	EST	1	$ 30,000	$ 30,000
Stabilize Soils	Tons	250	$ 50	$ 12,500
Excavate and Transport Stabilized Soils	Tons	250	$ 25	$ 6,250
Dispose of Stabilized Soils	Tons	250	$ 30	$ 7,500
Backfill Material	Tons	275	$ 20.00	$ 5,500
Place and Compact Backfill	Tons	275	$ 10.00	$ 2,750
Post-Excavation Confirmatory Sampling	EST	1	$ 2,500	$ 2,500
Data Validation	EST	1	$ 750	$ 750
Remaining Non-Hazardous Areas Site-Wide				
Shoring	1	LS	$ 200,000	$ 200,000
Excavate Soils/Transport to LF	Tons	26,150	$ 25	$ 653,750
Dispose of Soils	Tons	26,150	$ 30	$ 784,500
Backfill Material	Tons	28,765	$ 20.00	$ 575,300
Place and Compact Backfill	Tons	28,765	$ 10.00	$ 287,650
Post-Excavation/Analytical Testing	EA	140	$ 500	$ 70,000
Data Validation	EA	420	$ 25	$ 10,500
Groundwater or accumulated precipitation	EST	1	$ 50,000	$ 50,000
			Total Estimated Capital Cost	**$ 2,724,450**
Contractor Mobilization/Demobilization (5%)				$ 136,223
Health and Safety (2%)				$ 54,489
Engineering, Oversight and Reporting (25%) + Contingency (10%)				$ 953,558
			Total Estimated Costs	**$ 3,868,719**

NOTES:
1) Assumed cleanup track is Unrestricted Track 1.
2) A remedy has not been approved by NYSDEC; this assessment assumes only the areas identified require remediation.
3) The final remedy will be established in NYSDEC-issued Decision Document, upon NYSDEC review and approval of the Remedial Investigation/Alternatives Analysis Report and 45-day public comment period.

TABLE 11

COMPARISON OF REMEDIAL ALTERNATIVES

NORTH AUD BLOCK SITE
BUFFALO, NEW YORK

Remedial Alternative	NYSDEC DER-10 Evaluation Criteria								
	1. Overall	2. SCGs	3. Eff & Perm	4. Reduction	5. Imp & Eff	6. Implement	7. Cost Eff	8. Community	9. Land Use
Alternative 1 - No Further Action						✓	$0	TBE	
Alternative 2 - Track 4 Restricted Residential Cleanup	✓	✓	✓	✓	✓	✓	$850K	TBE	✓
Alternative 3 - Track 1 Unrestricted Cleanup	✓	✓	✓	✓	✓	✓	$3.87M	TBE	✓

Notes:

1. Overall Protectiveness of Public Health and the Environment
2. Compliance with Standards, Criteria, and Guidance (SCGs)
3. Long-Term Effectiveness and Permanence
4. Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment
5. Short-Term Impacts and Effectiveness
6. Implementability (Technical and Administrative)
7. Cost Effectiveness
8. Community Acceptance
9. Land Use

✓ = Alternative satisfies criterion

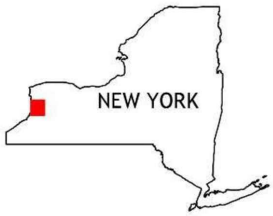
TBE = To be evaluated following public comment period

FIGURES

1. Site Location and Vicinity Map
2. Site Plan (Aerial)
3. Historic & RI Investigation Locations
4. Historic & RI Soil Investigation Locations and Exceedances
5. Groundwater Isopotential Map
6. Alternative 2: Track 4 Restricted-Residential Cleanup
7. Alternative 3: Track 1 Unrestricted Cleanup



QUADRANGLE LOCATION



SOURCE:
BUFFALO, NY, 2023
USGS 7.5 MINUTE TOPOGRAPHIC MAP

N

0' 3,000'

Title:

SITE LOCATION AND VICINITY MAP

RI/AA REPORT

NORTH AUD BLOCK (C915406)
P/O 130 MAIN STREET, BUFFALO, NEW YORK

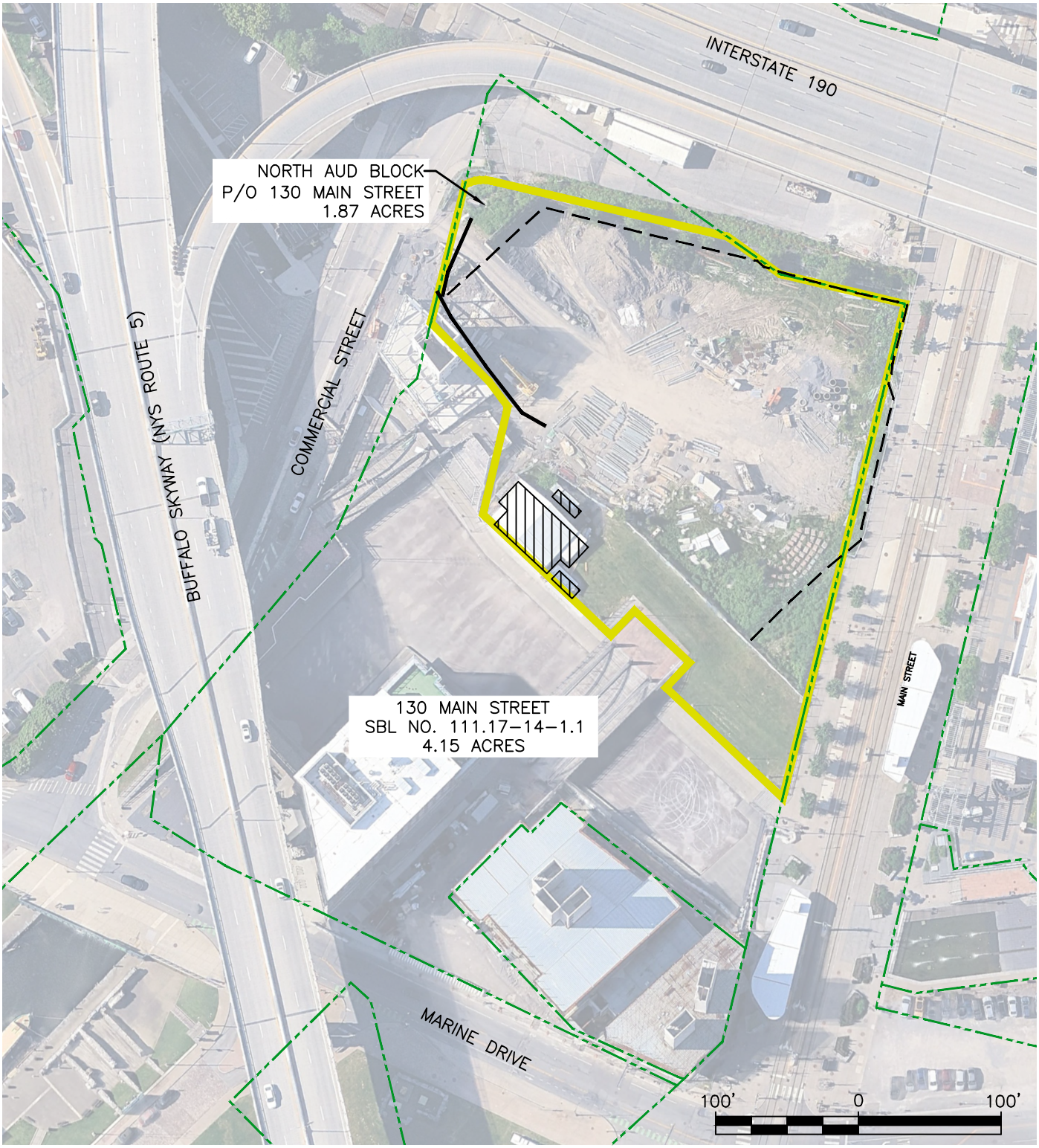
Prepared for:

NORTH AUD OWNER LLC

ROUX

Compiled by: CNK	Date: MARCH 2025	FIGURE
Prepared by: CNK	Scale: AS SHOWN	1
Project Mgr: BWM	Project: 4375.0001B000	
File: FIGURE 1; SITE LOCATION AND VICINITY MAP.DWG		

F:\CAD\0-ROUX\PENNROSE\NORTH AUD BLOCK\RI-AA REPORT\FIGURE 1; SITE LOCATION AND VICINITY MAP.DWG



LEGEND

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- WOODEN/SHEET PILE RETAINING WALL
- CONCRETE WALL
- EXISTING STRUCTURES (TO BE REMOVED)

NOTES

1. AERIAL IMAGE SOURCE GOOGLE EARTH 2024.

N

Title:

SITE PLAN (AERIAL)

RI/AA REPORT

NORTH AUD BLOCK (C915406)
P/O 130 MAIN STREET, BUFFALO, NEW YORK

Prepared for:

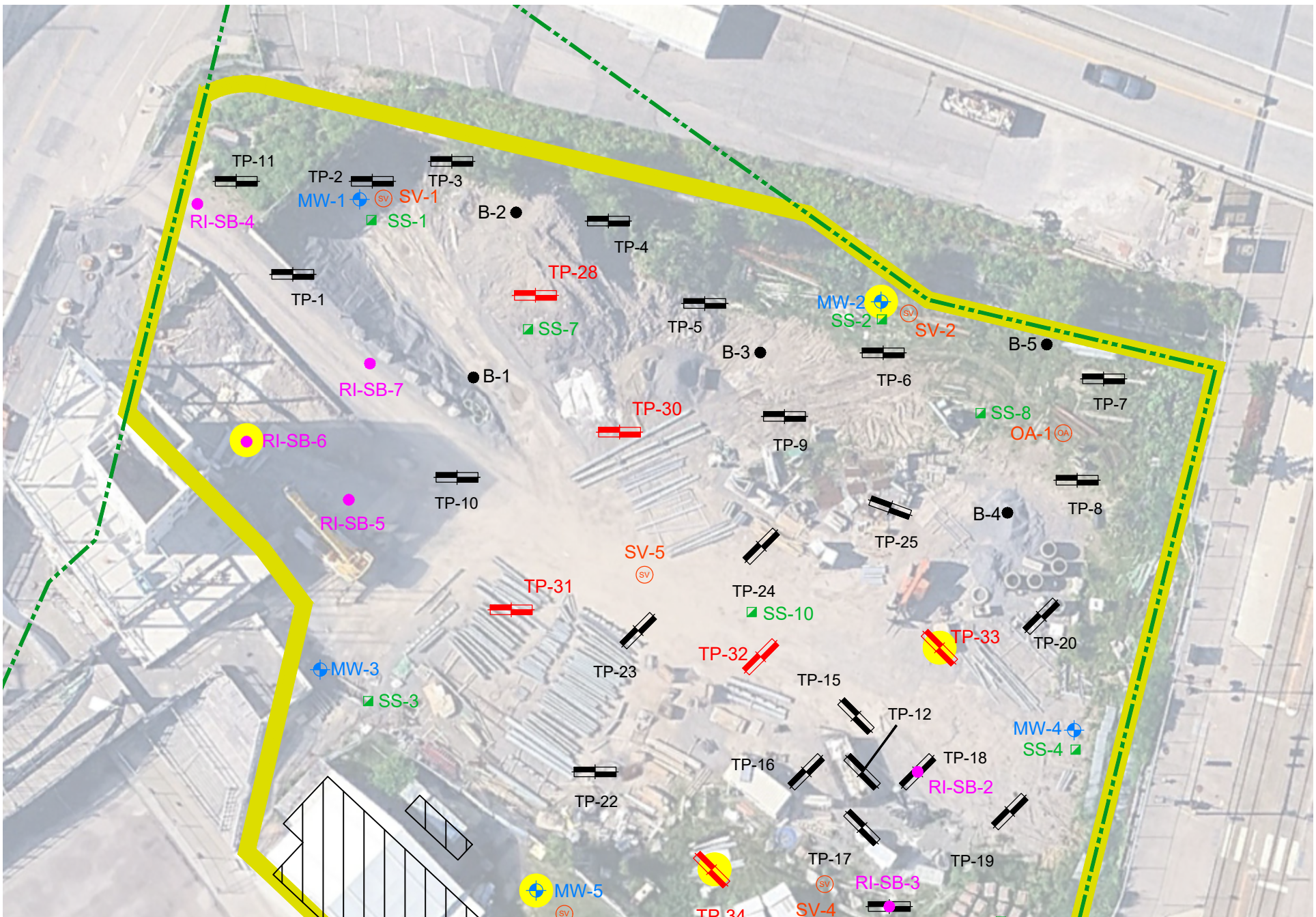
NORTH AUD OWNER LLC

ROUX

Compiled by: CNK	Date: APRIL 2025	FIGURE
Prepared by: CNK	Scale: AS SHOWN	2
Project Mgr: BWM	Project: 4375.0001B000	
File: FIGURE 2; SITE PLAN (AERIAL).DWG		

F:\CAD\0-ROUX\PENNROSE\NORTH AUD BLOCK\RI-AA REPORT\FIGURE 2; SITE PLAN (AERIAL).DWG

F:\CAD\0-ROUX\PENNROSE\NORTH AUD BLOCK\RI-AA REPORT\FIGURE 2; SITE PLAN (AERIAL).DWG



LEGEND

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- EXISTING STRUCTURES (TO BE DEMOLISHED OR REMOVED)
- B-1 PREVIOUS BORING LOCATION (SJB)
- TP-1 PREVIOUS TEST PIT LOCATION (ROUX)
- SS-1 RI SURFACE SOIL LOCATION
- TP-26 RI TEST PIT LOCATION
- RI-SB-1 RI SOIL BORING LOCATION
- MW-1 RI SOIL BORING/MONITORING WELL LOCATION
- SV-1 RI SOIL VAPOR LOCATION
- OA-1 RI OUTDOOR AIR LOCATION
- FULL SUITE NATIVE SOIL SAMPLE LOCATION

NOTES

1. AERIAL IMAGE SOURCE GOOGLE EARTH 2024.

N

40' 0 40'

Title:

HISTORIC & REMEDIAL INVESTIGATION LOCATIONS RI/AA REPORT

NORTH AUD BLOCK (C915406)
P/O 130 MAIN STREET, BUFFALO, NEW YORK

Prepared for

NORTH AUD OWNER LLC

ROUX

Compiled by: CNK	Date: APRIL 2025	FIGURE
Prepared by: CNK	Scale: AS SHOWN	3
Project Mgr: BWM	Project: 4375.0001B000	
File: FIGURE 2; SITE PLAN (AERIAL).DWG		

F:\CAD\0-ROUX\PENNROSE\NORTH AUD BLOCK\RI-AA REPORT\FIGURE 2; SITE PLAN (AERIAL).DWG

RISB-7 (4-8 FT)	2/17/2025
PARAMETER	MG/KG
LEAD	86.1
MERCURY	0.28

RISB-4 (0-2 FT)	2/17/2025
PARAMETER	MG/KG
LEAD	129
MERCURY	0.41

RISB-6 (0.5-3 FT)	2/13/2025
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	3.2
BENZO(A)PYRENE	2.7
BENZO(B)FLUORANTHENE	3.2
BENZO(K)FLUORANTHENE	1.7
CHRYSENE	3
DIBENZO(A,H)ANTHRACENE	0.5
INDENO(1,2,3-CD)PYRENE	1.3
LEAD	120
MERCURY	0.32
4,4'-DDT	0.0096

RISB-5 (0-1 FT)	2/13/2025
PARAMETER	MG/KG
LEAD	118

TP-31 (2-4 FT)	2/12/2025
PARAMETER	MG/KG
BARIUM	500
MERCURY	0.31

MW-3 (0-2 FT)	2/13/2025
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	3
BENZO(A)PYRENE	2.7
BENZO(B)FLUORANTHENE	3.3
BENZO(K)FLUORANTHENE	1.6
CHRYSENE	3
DIBENZO(A,H)ANTHRACENE	0.53
INDENO(1,2,3-CD)PYRENE	1.4
LEAD	185
MERCURY	0.23
ZINC	127

SS-10	2/13/2025
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	6.3
BENZO(A)PYRENE	5.8
BENZO(B)FLUORANTHENE	7.4
BENZO(K)FLUORANTHENE	3.2
CHRYSENE	6.4
INDENO(1,2,3-CD)PYRENE	3.3
BARIUM	507
CADMIUM	2.8
COPPER	154
LEAD	342
MANGANESE	1930
MERCURY	2.4
NICKEL	78.8
ZINC	605

TP-32 (2-3 FT)	2/12/2025
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	6.4
BENZO(A)PYRENE	5.5
BENZO(B)FLUORANTHENE	6.3
BENZO(K)FLUORANTHENE	3.3
CHRYSENE	6.3
DIBENZO(A,H)ANTHRACENE	0.94
INDENO(1,2,3-CD)PYRENE	2.5
COPPER	211
LEAD	1450
MERCURY	5.7
ZINC	883
4,4'-DDT	0.0068

TP-4 (1-3 FT)	5/18/2023
PARAMETER	MG/KG
LEAD	433
MERCURY	1.6

TP-4 (3-5 FT)	5/18/2023
PARAMETER	MG/KG
MERCURY	0.3

TP-28 (0-2 FT)	2/11/2025
PARAMETER	MG/KG
BENZO(B)FLUORANTHENE	1.1
LEAD	92.9
MERCURY	0.32

B-1 (0.5-6.5 FT)	6/1/2020
PARAMETER	MG/KG
MERCURY	0.205

MW-5 (2.5-4 FT)	2/14/2025
PARAMETER	MG/KG
LEAD	448
MERCURY	0.96
ZINC	127

TP-34 (0-4 FT)	2/11/2025
PARAMETER	MG/KG
LEAD	82.3

TP-34 (5-6 FT)	2/11/2025
PARAMETER	MG/KG
COPPER	54.4
LEAD	2240
MERCURY	7.2
ZINC	120

RISB-8 (0.5-4 FT)	2/14/2025
PARAMETER	MG/KG
LEAD	207
MERCURY	0.43

RISB-9 (2-4 FT)	2/14/2025
PARAMETER	MG/KG
MERCURY	0.87

TP-21 (1-3 FT)	6/20/2023
PARAMETER	MG/KG
ARSENIC	63.7
BARIUM	9720
LEAD	11200
MERCURY	4

SS-7	2/11/2025
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	4.8
BENZO(A)PYRENE	3.9
BENZO(B)FLUORANTHENE	5.1
BENZO(K)FLUORANTHENE	2
CHRYSENE	4.2
DIBENZO(A,H)ANTHRACENE	0.7
INDENO(1,2,3-CD)PYRENE	1.8
LEAD	309
MERCURY	0.33
ZINC	178

SS-2	2/13/2025
PARAMETER	MG/KG
ZINC	120

SS-8	2/13/2025
PARAMETER	MG/KG
LEAD	69.5
ZINC	155

TP-33 (1-5 FT)	2/12/2025
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	3.2
BENZO(A)PYRENE	3
BENZO(B)FLUORANTHENE	3.6
BENZO(K)FLUORANTHENE	1.5
CHRYSENE	3.1
DIBENZO(A,H)ANTHRACENE	0.48
INDENO(1,2,3-CD)PYRENE	1.3
ARSENIC	15.1
COPPER	92.3
LEAD	683
MERCURY	1.6
ZINC	321
4,4'-DDT	0.0056

B-4 (0.5-6.5 FT)	6/3/2020
PARAMETER	MG/KG
MERCURY	1.62

TP-8 (2-4 FT)	5/18/2023
PARAMETER	MG/KG
MERCURY	0.35

TP-20 (4-6 FT)	6/20/2023
PARAMETER	MG/KG
MERCURY	0.21

MW-4 (0.5-2 FT)	2/11/2025
PARAMETER	MG/KG
COPPER	50.9
LEAD	464
MERCURY	1.3
ZINC	175

SS-4	2/13/2025
PARAMETER	MG/KG
ZINC	111

TP-19 (1-3 FT)	6/20/2023
PARAMETER	MG/KG
ARSENIC	33.5
LEAD	1640
MERCURY	1.5

RISB-2 (1-4 FT)	2/11/2025
PARAMETER	MG/L
TCLP LEAD	9.1

TP-18 (1-3 FT)	6/20/2023
PARAMETER	MG/KG
ARSENIC	107
BARIUM	427
LEAD	11400
MERCURY	6.4

TP-12 (1-3 FT)	5/18/2023
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	20
BENZO(A)PYRENE	20
BENZO(B)FLUORANTHENE	21
BENZO(K)FLUORANTHENE	7.5
CHRYSENE	18
DIBENZO(A,H)ANTHRACENE	4
INDENO(1,2,3-CD)PYRENE	9.3
ARSENIC	23.7
LEAD	2780
MERCURY	0.61

MW-6 (4-5 FT)	2/14/2025
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	8
BENZO(A)PYRENE	7.2
BENZO(B)FLUORANTHENE	8.3
BENZO(K)FLUORANTHENE	4.3
CHRYSENE	7.4
DIBENZO(A,H)ANTHRACENE	1.1
INDENO(1,2,3-CD)PYRENE	3.1
LEAD	110
MERCURY	0.49
ZINC	128
4,4'-DDT	0.029

RI-SB-4 RI-SB-7 RI-SB-6 RI-SB-5 RI-SB-2 RI-SB-3 RI-SB-8 RI-SB-1 RI-SB-9
MW-1 MW-2 MW-3 MW-4 MW-5 MW-6
SV-1 SV-2 SV-3 SV-4 SV-5
OA-1
SS-1 SS-2 SS-3 SS-4 SS-5 SS-6 SS-7 SS-8 SS-9 SS-10
TP-1 TP-2 TP-3 TP-4 TP-5 TP-6 TP-7 TP-8 TP-9 TP-10 TP-11 TP-12 TP-13 TP-14 TP-15 TP-16 TP-17 TP-18 TP-19 TP-20 TP-21 TP-22 TP-23 TP-24 TP-25 TP-26 TP-28 TP-30 TP-31 TP-32 TP-33 TP-34
B-1 B-2 B-3 B-4 B-5
MAIN STREET

LEGEND

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- EXISTING STRUCTURES (TO BE DEMOLISHED OR REMOVED)
- B-1 PREVIOUS BORING LOCATION (SJB)
- TP-1 PREVIOUS TEST PIT LOCATION (ROUX)
- SS-1 RI SURFACE SOIL LOCATION
- TP-26 RI TEST PIT LOCATION
- RI-SB-1 RI SOIL BORING LOCATION
- MW-1 RI SOIL BORING/MONITORING WELL LOCATION
- SV-1 RI SOIL VAPOR LOCATION
- OA-1 RI OUTDOOR AIR LOCATION

- EXCEEDS UNRESTRICTED SCOs
- EXCEEDS RESTRICTED-RESIDENTIAL SCOs
- EXCEEDS CHARACTERISTIC HAZARDOUS WASTE THRESHOLD FOR LEAD

NOTES

1. AERIAL IMAGE SOURCE GOOGLE EARTH 2024.
2. SOIL/FILL ANALYTICAL RESULTS COMPARED TO 6 NYCRR PART 375 SOIL CLEANUP OBJECTIVES (SCOs).

N

60' 0 60'

Title:
HISTORIC & REMEDIAL INVESTIGATION LOCATIONS AND SOIL/FILL EXCEEDANCES
RI/AA REPORT

NORTH AUD BLOCK (C915406)
P/O 130 MAIN STREET, BUFFALO, NEW YORK

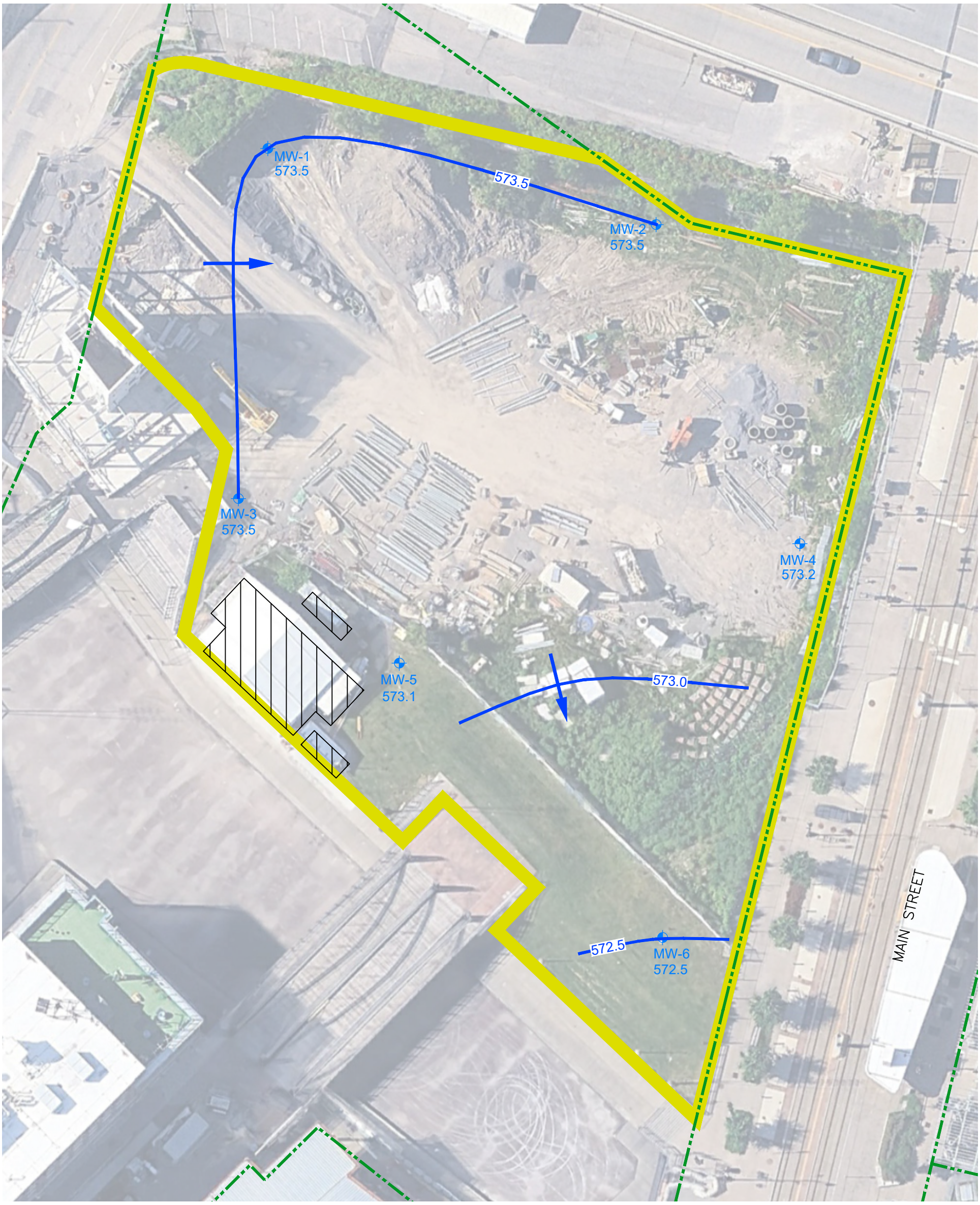
Prepared for
NORTH AUD OWNER LLC

ROUX

Compiled by: CNK	Date: APRIL 2025
Prepared by: CNK	Scale: AS SHOWN
Project Mgr: BWM	Project: 4375.0001B000
File: FIGURE 2; SITE PLAN (AERIAL).DWG	

FIGURE 4

F:\CAD\0-ROUX\PENNROSE\NORTH AUD BLOCK\RI-AA REPORT\FIGURE 5; GROUNDWATER ISOPOTENTIAL MAP.DWG



LEGEND

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- EXISTING STRUCTURES (TO BE DEMOLISHED OR REMOVED)
- MW-1 573.47 — MONITORING WELL AND GROUNDWATER ELEVATION (FT)
- 573.0 — GROUNDWATER CONTOUR LINE AND ELEVATION (FT)
- GROUNDWATER FLOW ARROW

NOTES

1. AERIAL IMAGE SOURCE GOOGLE EARTH 2024.
2. GROUNDWATER ELEVATIONS BASED ON DEPTH TO WATER MEASUREMENTS COLLECTED MARCH 14, 2025.

N

40' 0 40'

Title: **GROUNDWATER ISOPOTENTIAL MAP**

RI/AA REPORT

NORTH AUD BLOCK (C915406)
P/O 130 MAIN STREET, BUFFALO, NEW YORK

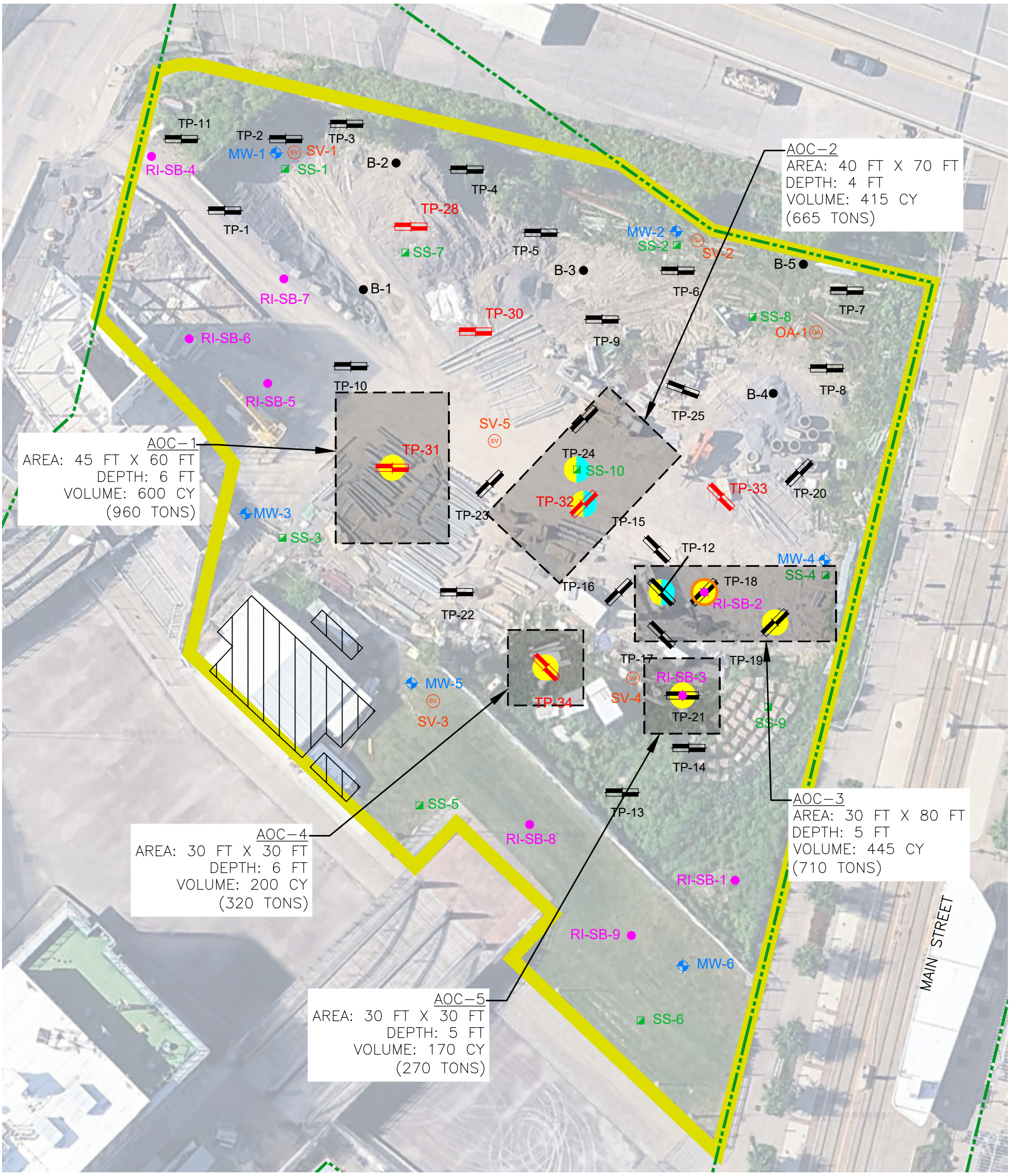
Prepared for

NORTH AUD OWNER LLC

ROUX

Compiled by: CNK	Date: APRIL 2025	FIGURE
Prepared by: CNK	Scale: AS SHOWN	5
Project Mgr: BWM	Project: 4375.0001B000	
File: FIGURE 5; GROUNDWATER ISOPOTENTIAL MAP.DWG		

F:\CAD\0-ROUX\PENNROSE\NORTH AUD BLOCK\RI-AA REPORT\FIGURE 6; TRACK 4 RESTRICTED-RESIDENTIAL CLEANUP.DWG



LEGEND

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- EXISTING STRUCTURES (TO BE DEMOLISHED OR REMOVED)
- B-1 PREVIOUS BORING LOCATION (SJB)
- TP-1 PREVIOUS TEST PIT LOCATION (ROUX)
- SS-1 RI SURFACE SOIL LOCATION
- TP-26 RI TEST PIT LOCATION
- RI-SB-1 RI SOIL BORING LOCATION
- MW-1 RI SOIL BORING/MONITORING WELL LOCATION
- SV-1 RI OUTDOOR AIR LOCATION
- OA-1 RI SOIL VAPOR LOCATION
- PROPOSED REMEDIAL EXCAVATION AREA
- METALS EXCEEDING CSCOs
- PAHs EXCEEDING CSCOs
- TCLP LEAD EXCEEDS CHARACTERISTIC HAZARDOUS WASTE THRESHOLD

NOTES

1. AERIAL IMAGE SOURCE GOOGLE EARTH 2024.

CSCO = 6 NYCRR PART 375 COMMERCIAL SOIL CLEANUP OBJECTIVES
PAH = POLYCYCLIC AROMATIC HYDROCARBONS

N

40’ 0 40’

Title:

ALTERNATIVE 2: TRACK 4 RESTRICTED-RESIDENTIAL CLEANUP RI/AA REPORT

NORTH AUD BLOCK (C915406)
P/O 130 MAIN STREET, BUFFALO, NEW YORK

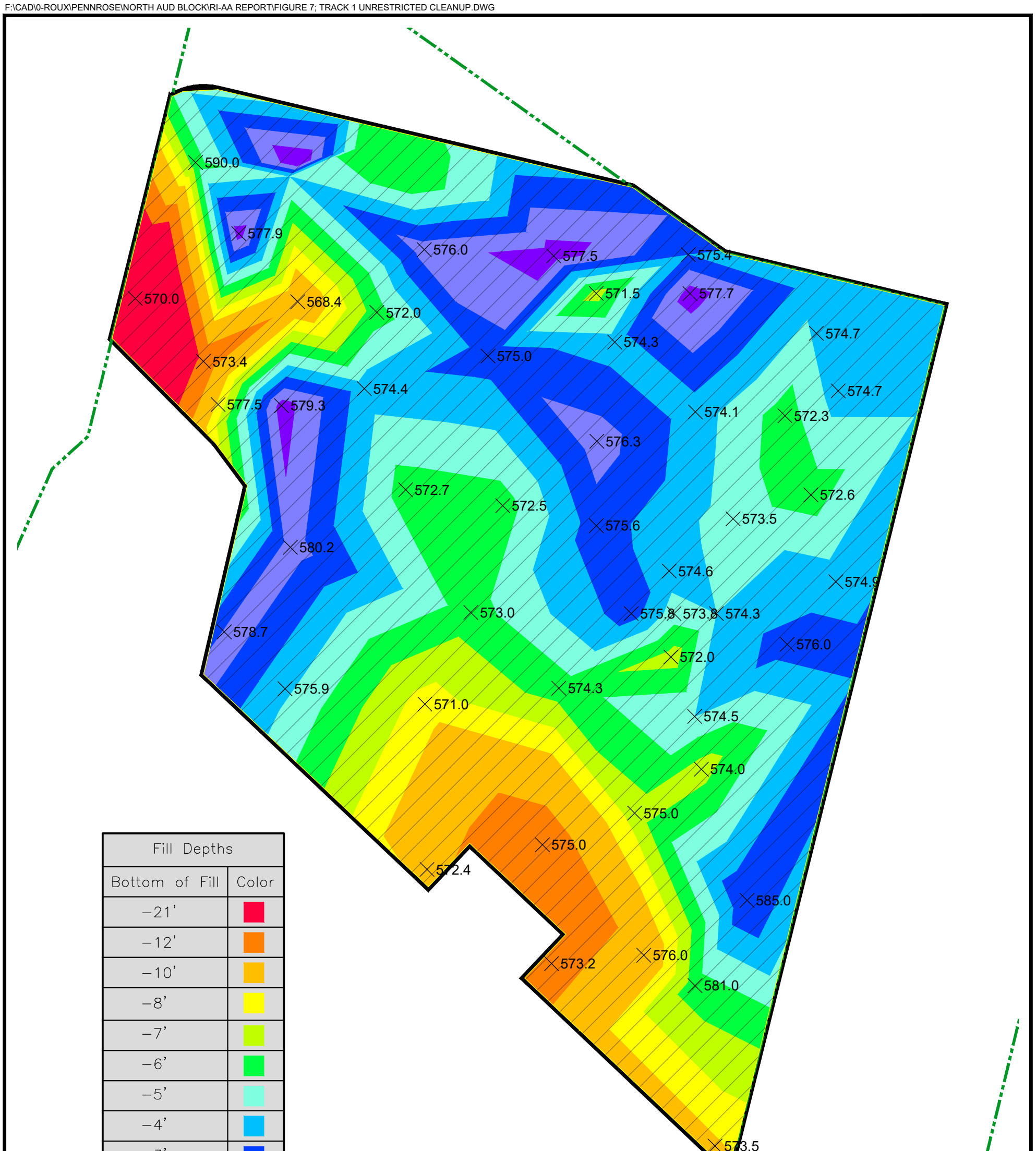
Prepared for

NORTH AUD OWNER LLC

ROUX

Compiled by: CNK	Date: APRIL 2025	FIGURE 6
Prepared by: CNK	Scale: AS SHOWN	
Project Mgr: BWM	Project: 4375.0001B000	
File: FIGURE 6; TRACK 4 RESTRICTED-RESIDENTIAL CLEANUP.DWG		

F:\CAD\0-ROUX\PENNROSE\NORTH AUD BLOCK\RI-AA REPORT\FIGURE 7; TRACK 1 UNRESTRICTED CLEANUP.DWG



Fill Depths	
Bottom of Fill	Color
−21’	
−12’	
−10’	
−8’	
−7’	
−6’	
−5’	
−4’	
−3’	
−2’	
−1’	

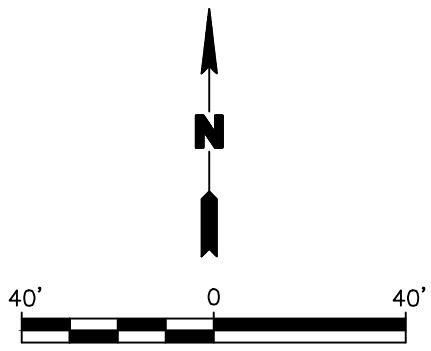
TRACK 1 UNRESTRICTED CLEANUP VOLUME ANALYSIS:
AVERAGE DEPTH TO BOTTOM OF FILL: 5.4 FT
APPROXIMATE FILL VOLUME: 16,500 CY (26,400 TONS)

LEGEND

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- 576.0 APPROXIMATE BOTTOM OF FILL ELEVATION (FT)
- AREA TO BE EXCAVATED UNDER TRACK 1 CLEANUP

NOTES

1. ELEVATION BASED ON ALTA/NSPS LAND TITLE SURVEY COMPLETED JULY 2023 BY FRANDINA ENGINEERING AND LAND SURVEYING, PC.



Title:

ALTERNATIVE 3: TRACK 1 UNRESTRICTED CLEANUP RI/AA REPORT

NORTH AUD BLOCK (C915406)
P/O 130 MAIN STREET, BUFFALO, NEW YORK

Prepared for

NORTH AUD OWNER LLC

ROUX

Compiled by: CNK	Date: APRIL 2025
Prepared by: CNK	Scale: AS SHOWN
Project Mgr: BWM	Project: 4375.0001B000
File: FIGURE 7; TRACK 1 UNRESTRICTED CLEANUP.DWG	

FIGURE 7

APPENDICES

A. Project Photolog
B. Phase II & RI Borehole/Test Pit Logs and Well Completion Details
C. Laboratory Analytical Data Packages
D. Groundwater Field Forms
E. CAMP Summary
F. Data Usability Summary Report (DUSR)
G. Fish and Wildlife Impact Assessment

APPENDIX A

Project Photolog

SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: View of the drilling of MW-2.

Photo 2: View of the soils encountered at MW-2.

Photo 3: View of the drilling of RISB-4.

Photo 4: View of the installation of MW-6.

North Aud Site Photo Date: February 2025	ROUX

SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 5: View of the installation of MW-3.

Photo 6: View of the soils encountered at the Site.

Photo 7: View of the drilling of SV-2.

Photo 8: View of TP-31.

North Aud Site Photo Date: February 2025	ROUX

SITE PHOTOGRAPHS

Photo 9:



Photo 10:



Photo 11:



Photo 12:



Photo 9: View of TP-33.

Photo 10: View of TP-30.

Photo 11: View of TP-28.

Photo 12: View of TP-33.

North Aud Site Photo Date: February 2025	ROUX

APPENDIX B

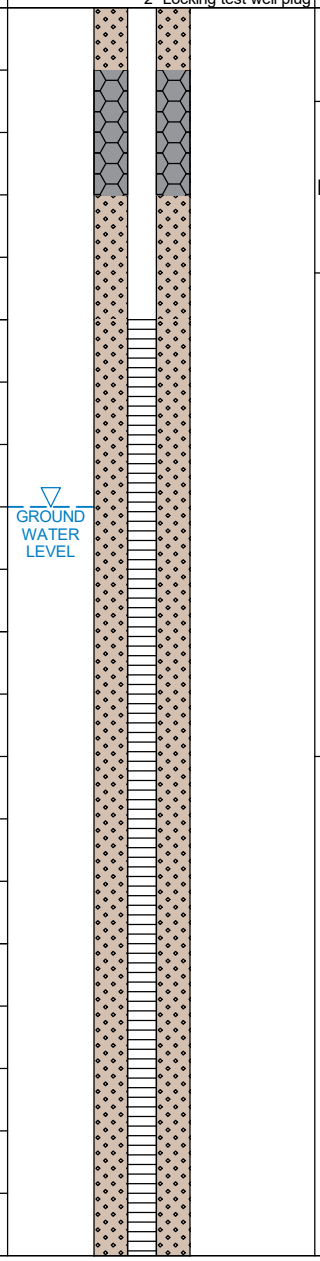
Phase II & RI Borehole/Test Pit Logs and Well Completion Details

MW-1

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/11/2025 - 2/11/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 20 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 8 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Well Depth: 20 feet	Well Dia./Materials: 2-inch PVC	Screen Interval: 5-20 feet	Screen Slot Size: 10-Slot	Sand/Filter Pack Size: #00	Annular Seal: Bentonite



Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	SP		Fine Sand- Grey/black, wet, mostly fine sand, medium dense, no odors				
	MIXD		Fill- Black, moist, mostly fill (black fines, cinders, wood), loose when disturbed, no odors				
	SP		Fine Sand- Grey/black, moist to wet (8'), mostly fine sand, medium dense, no odors				
	SW		Well Graded Sand- Grey, wet, mostly well graded sand, medium dense, no odors				

Bottom of monitoing well at 20 feet

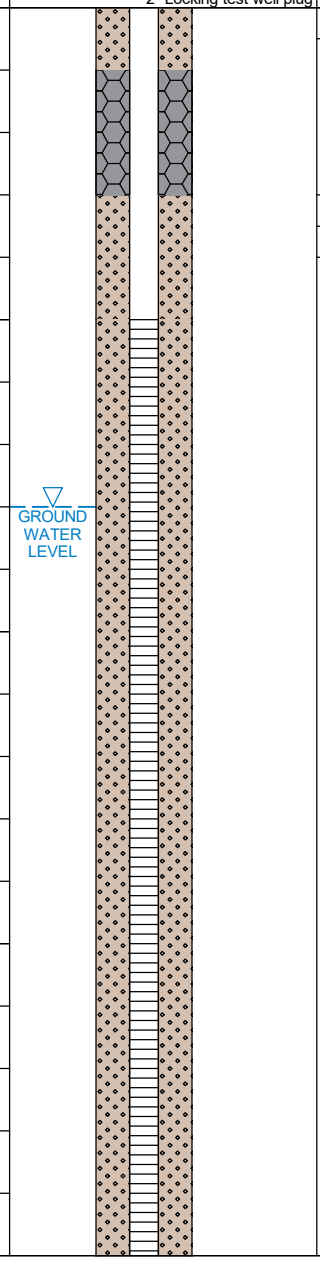
ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

MW-2

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/12/2025 - 2/12/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 20 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 8 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Well Depth: 20 feet	Well Dia./Materials: 2-inch PVC	Screen Interval: 5-20 feet	Screen Slot Size: 10-Slot	Sand/Filter Pack Size: #00	Annular Seal: Bentonite



Depth (ft)	USCS	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	CL	Reworked Sandy Lean Clay- Reddish brown, moist, mostly lean clay, some fine sand, loose when disturbed, no odors				
	MIXD	Fill- Black/brown, moist, mostly fill (black fines, cinders, brick, loose when disturbed, no odors				
	MIXD	Fill- Black, moist, mostly fill (black fines), loose when disturbed, no odors				
	SP	Fine Sand- Grey/black, moist, mostly fine sand, medium dense, no odors				
	SW	Well Graded Sand- Brown, moist to wet (8'), mostly well graded sand, medium dense, no odors				

Bottom of monitoing well at 20 feet

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

MW-3

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/13/2025 - 2/13/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 18 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 12 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Well Depth: 18 feet	Well Dia./Materials: 2-inch PVC	Screen Interval: 3-18 feet	Screen Slot Size: 10-Slot	Sand/Filter Pack Size: #00	Annular Seal: Bentonite

Depth (ft)	Well Diagram	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	4" Steel Locking Protective casing 2" Locking test well plug	MIXD		Fill- Black/orange, moist, mostly fill (brick, cinders, concrete), loose when disturbed, no odors				
		MLS		Silty Sand- Black, moist, mostly fine sand, little silt, medium dense, no odors				
5		SP		Fine Sand- Grey/black, moist to wet (12'), mostly fine sand, medium dense, no odors				
10	GROUND WATER LEVEL							
15		SW		Well Graded Sand- Brown, wet, mostly well graded sand, medium dense, no odors				

Bottom of monitoing well at 18 feet

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MW-4

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/11/2025 - 2/11/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 20 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 8 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Well Depth: 20 feet	Well Dia./Materials: 2-inch PVC	Screen Interval: 5-20 feet	Screen Slot Size: 10-Slot	Sand/Filter Pack Size: #00	Annular Seal: Bentonite

Depth (ft)	Well Diagram	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	4" Steel Locking Protective casing 2" Locking test well plug	GP		Subangular Gravel				
		CL		Reworked Sandy Lean Clay- Reddish brown, moist, mostly lean clay, some fine sand, loose when disturbed, no odors				
		MIXD		Fill- Black/brown, moist, mostly fill (black fines, cinders, brick, ash), loose when disturbed, no odors				
		GP		Subangular Gravel				
5		MLS		Silty Sand- Black, moist, mostly fine sand, little silt, medium dense, no odors				
	GROUND WATER LEVEL	SP		Fine Sand- Grey/black, wet, mostly fine sand, medium dense, no odors				
10								
15		SW		Well Graded Sand- Brown, wet, mostly well graded sand, medium dense, no odors				

Bottom of monitoing well at 20 feet

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MW-5

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/14/2025 - 2/14/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 20 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 8 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Well Depth: 20 feet	Well Dia./Materials: 2-inch PVC	Screen Interval: 5-20 feet	Screen Slot Size: 10-Slot	Sand/Filter Pack Size: #00	Annular Seal: Bentonite

Depth (ft)	Well Diagram	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	4" Steel Locking Protective casing 2" Locking test well plug	TOPS		Topsoil				
		MIXD		Fill- Black/white/red, moist to wet (8'), mostly fill (ash, cinders, brick, wood, gravel), loose when disturbed, no odor				
5								
	GROUND WATER LEVEL							
		SP		Fine Sand- Grey/black, wet, mostly fine sand, medium dense, no odors				
10								
		SW		Well Graded Sand- Brown, wet, mostly well graded sand, medium dense, no odors				
15								
				Bottom of monitoing well at 20 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

MW-6

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/13/2025 - 2/13/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 20 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 16 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Well Depth: 20 feet	Well Dia./Materials: 2-inch PVC	Screen Interval: 5-20 feet	Screen Slot Size: 10-Slot	Sand/Filter Pack Size: #00	Annular Seal: Bentonite

Depth (ft)	Well Diagram	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
0	4" Steel Locking Protective casing 2" Locking test well plug	MIXD		Fill- Black/orange, moist, mostly fill (brick, cinders, concrete), loose when disturbed, no odors				
		MIXD		Fill- Black/grey, moist mostly fill (black fines, brick, cinders, ash), loose when disturbed, no odors				
5		CONC		Concrete				
		GP		Subangular Gravel				
		MLS		Silty Sand- Black, moist, mostly fine sand, little silt, medium dense, no odors				
10		MIXD		Wood				
		SP		Fine Sand- Grey/black, moist to wet (16'), mostly fine sand, medium dense, no odors				
15	GROUND WATER LEVEL							

Bottom of monitoing well at 20 feet

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

RISB-1

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 3/14/2025 - 3/14/2025	Contractor: Roux Inc.	Drill Type: Hand Auger	Sampler Type/Method: Hand Auger
Borehole Depth: 2.5 feet	Backfill:	Borehole Diameter: 3-inches	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
1 – 2	MIXD		Fill- Brown, moist, mostly silty sand, some fill (brick, cinders, concrete, glass), medium dense, no odors				
	CONC		Concrete Bottom of borehole at 2.5 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

RISB-2

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/11/2025 - 2/11/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 16 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 5.5 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		GP		Subangular Gravel				
		MIXD		Fill- Black, moist, mostly fill (black fines, cinders, brick, ash, wood), loose when disturbed, no odors				
5		MLS		Silty Sand- Black, moist, mostly fine sand, little silt, medium dense, no odors				
	GROUND WATER LEVEL	SP		Fine Sand- Grey/black, wet, mostly fine sand, medium dense, no odors				
10		SW		Well Graded Sand- Grey, wet, mostly well graded sand, medium dense, no odors				
15				Bottom of borehole at 16 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

RISB-3

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: NAS
Start to Finish Date: 2/11/2025 - 2/11/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 16 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 4.5 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		MIXD		Fill- Black/brown, moist, mostly fill (ash, cinders, brick, wood, concrete, black fines), loose when disturbed, no odors				
	GROUND WATER LEVEL							
5		SP		Fine Sand- Grey/black, wet, mostly fine sand, medium dense, no odors				
10								
		SW		Well Graded Sand- Grey, wet, mostly well graded sand, medium dense, no odors				
15								
				Bottom of borehole at 16 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

RISB-4

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/17/2025 - 2/17/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 24 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 21 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		MIXD		Fill- Grey/black, moist, mostly fill (subangular gravel, cinders, black fines, brick, ash, coal), loose when disturbed, no odors				
		MIXD		Fill- Red/white, moist, mostly fill (brick, ash), loose when disturbed, no odors				
5								
10								
15								
20	GROUND WATER LEVEL	SP		Fine Sand- Grey, wet, mostly fine sand, medium dense, no odors				

Bottom of borehole at 24 feet

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

RISB-5

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/13/2025 - 2/13/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 16 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 14 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		MIXD		Fill- Black/brown/grey, moist, mostly fill (cinders, brick, subangular gravel, cinders), loose when disturbed, no odors				
		SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				
5								
		MLS		Silty Sand- Black/dark brown, moist, mostly fine sand, little silt, medium dense, no odors				
10	▽ GROUND WATER LEVEL							
		SW		Well Graded Sand- Grey, wet, mostly well graded sand, medium dense, no odors				
15								
				Bottom of borehole at 16 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

RISB-6

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000	
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS	
Start to Finish Date: 2/13/2025 - 2/13/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 24 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 18 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		GP		Subangular Gravel				
5		MIXD		Fill- Grey, moist, mostly fill (subangular gravel, brick, cinders, black fines), loose when disturbed, no odors				
10		MLS		Silty Sand- Black, moist, mostly fine sand, little silt, medium dense, no odors				
15		SP		Fine Sand- Grey/black, moist, mostly fine sand, medium dense, no odors				
		MLS		Black, moist, mostly silty sand, some organics, no odors				
	▽ GROUND WATER LEVEL							
20		SW		Well Graded Sand- Grey, wet, mostly well graded sand, medium dense, no odors				

Bottom of borehole at 24 feet

ROUX STANDARD LOG - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

RISB-7

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: NAS
Start to Finish Date: 2/17/2025 - 2/17/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 16 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 13 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
				Subangular Gravel				
		MLS		Silty Sand- Black/dark brown, moist, mostly fine sand, little silt, medium dense, no odors				
5		GP MIXD		Fill- Black/brown/red, moist, mostly fill (ash, cinders, concrete, brick, black fines), loose when disturbed, no odors				
10		CONC		Concrete				
		SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				
		MLS		Silty Sand- Black/dark brown, moist, mostly fine sand, little silt, medium dense, no odors				
	▽ GROUND WATER LEVEL							
15		SP		Fine Sand- Grey/tan, wet, mostly fine sand, medium dense, no odors				
				Bottom of borehole at 16 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

RISB-8

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/14/2025 - 2/14/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 12 feet	Backfill:	Borehole Diameter: 2-inches	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	TOPS		Topsoil				
	MIXD		Fill- Brown/black/grey, moist, mostly fine to medium sand, some fill (cinders, subangular gravel, brick, ash, black fines), loose when disturbed, no odors				
5							
10	CONC		Concrete				
			Bottom of borehole at 12 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

RISB-9

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/13/2025 - 2/13/2025	Contractor: Trec Environmental Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 20 feet	Backfill:	Borehole Diameter: 2-inches	DTW: 13 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		MLS		Silty sand with gravel- Tan, moist, mostly fine sand, some silt, little subrounded gravel, medium dense, no odors				
5		MIXD		Fill- Dark brown/black, moist, mostly silty sand, some fill (brick, cinders), loose when disturbed, no odors				
		MIXD		Fill- Brick and concrete				
10		MLS		Silty Sand- Black/dark brown, moist, mostly fine sand, little silt, medium dense, no odors				
	GROUND WATER LEVEL							
15		SP		Fine Sand- Grey/tan, wet, mostly fine sand, medium dense, no odors				

Bottom of borehole at 20 feet

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-1

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	MIXD		Fill- Grey, moist, mostly subangular gravel, some fill (brick), loose when disturbed, no odors				
	SPG		Fine Sand with Gravel- Grey/tan, moist, mostly fine sand, some gravel, medium dense, no odors				
5							
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-2

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	MIXD		Fill- Grey, moist, mostly subangular gravel, some fill (brick), loose when disturbed, no odors				
	SP		Fine Sand Grey/tan, moist, mostly fine sand, medium dense, no odors				
5							
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-3

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
5	MIXD		Fill- Grey, moist, mostly fine sand, some silt, some fill (cobbles, brick, black fines), loose when disturbed, no odors				
	SP		Fine Sand Grey/tan, moist, mostly fine sand, medium dense, no odors				
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-4

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
0	MIXD		Fill- Grey, moist, mostly fine sand, some silt, some fill (cobbles, brick, ash, black fines), loose when disturbed, no odors				
5	SP		Fine Sand Grey/tan, moist, mostly fine sand, medium dense, no odors				
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-5

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	MIXD		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	SPG		Fine Sand with Gravel- Grey/tan, moist, mostly fine sand, some gravel, medium dense, no odors				
5							
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-6

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
5	SPG		Fine Sand with Gravel- Grey/tan, moist, mostly fine sand, some gravel, few cobbles, medium dense, no odors				

Bottom of test pit at 7 feet

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-7

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/white, moist, mostly fill (cobbles, ash), loose when disturbed, no odors				
5	SPG		Fine Sand with Gravel- Grey/tan, moist, mostly fine sand, some gravel, few cobbles, medium dense, no odors				
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-8

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (brick, black fines), loose when disturbed, no odors				
5	SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				

Bottom of test pit at 7 feet

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-9

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (cobbles, black fines), loose when disturbed, no odors				
5	SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-10

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (cinders, black fines), loose when disturbed, no odors				
5	SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				

Bottom of test pit at 7 feet

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-11

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 6 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black/red, moist, mostly fine sand, some fill (brick, gravel), loose when disturbed, no odors				
5			Bottom of test pit at 6 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-12

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 5/18/2023 - 5/18/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 6 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (ash, glass, brick, cobbles), loose when disturbed, no odors				
5	SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				
			Bottom of test pit at 6 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-13

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	TOPS		Topsoil				
5	MIXD		Fill- Brown, moist, mostly fine sand, some fill (brick, cobbles), loose when disturbed, no odors				
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-14

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	TOPS		Topsoil				
5	MIXD		Fill- Brown, moist, mostly fine sand, some fill (brick, cobbles), loose when disturbed, no odors				
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-15

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (cinders, brick), loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (cobbles), loose when disturbed, no odors				
5	SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-16

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 6 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (cinders, glass, brick), loose when disturbed, no odors				
5	SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				
			Bottom of test pit at 6 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-17

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
5	MIXD		Fill- Grey/black, moist, mostly fill (brick, cobbles, glass, concrete), loose when disturbed, no odors				
	CONC		Concrete Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-18

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (cinders, brick), loose when disturbed, no odors				
5	SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-19

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (cinders, glass, brick), loose when disturbed, no odors				
5	SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				

Bottom of test pit at 7 feet

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-20

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 6 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
5	MIXD		Fill- Grey/black, moist, mostly fill (wood, railroad ties, cobbles, black fines, cinders), some fine sand, loose when disturbed, no odors				
			Bottom of test pit at 6 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-21

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (ash, cinders, black fines), loose when disturbed, no odors				
5	SP		Fine Sand- brown, moist, mostly fine sand, medium dense, no odors				

Bottom of test pit at 7 feet

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-22

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 6 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (brick, cobbles), some fine sand, loose when disturbed, no odors				
5			Bottom of test pit at 6 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-23

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 6 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
5	MIXD		Fill- Grey/black, moist, mostly fill (brick, cobbles), loose when disturbed, no odors				
			Bottom of test pit at 6 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-24

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: MJ

Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly fill (cinders), loose when disturbed, no odors				
	SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				
5							
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-25

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: MJ
Start to Finish Date: 6/20/2023 - 6/20/2023	Contractor: Roux Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel- Grey, moist, mostly subangular gravel, loose when disturbed, no odors				
	MIXD		Fill- Grey/black, moist, mostly reworked lean cleay with fill (brick), loose when disturbed, no odors				
5	SP		Fine Sand- Grey/tan, moist, mostly fine sand, medium dense, no odors				
			Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-28

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/11/2025 - 2/11/2025	Contractor: Trec Environmental Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 7 feet	Backfill:	Borehole Diameter:	DTW: 6 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		MIXD		Fill- Black, moist, mostly fill (concrete, black fines, cinders, ash, large cobbles), loose when disturbed, no odors				
		SP		Fine Sand- Grey, moist, mostly fine sand, medium dense, no odors				
5	GROUND WATER LEVEL	SW		Well Graded Sand- Brown, moist to wet (6'), mostly well graded sand, medium dense, no odors				
				Refusal due to large amount of water Bottom of test pit at 7 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-30

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: NAS
Start to Finish Date: 2/11/2025 - 2/11/2025	Contractor: Trec Environmental Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 9 feet	Backfill:	Borehole Diameter:	DTW: 9 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		GP		Subangular Gravel				
		MIXD		Fill- Dark brown, moist, mostly fill (wood, subangular gravel), some silty sand with organics, medium dense, no odors				
		MLS		Silty Sand- Black, moist, mostly fine sand, little silt, medium dense, no odors				
5		SP		Fine Sand- Grey/silver, moist to wet (9'), mostly fine sand, medium dense, no odors				
	▽ GROUND WATER LEVEL			Refusal due to large amount of water Bottom of test pit at 9 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-31

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: NAS
Start to Finish Date: 2/12/2025 - 2/12/2025	Contractor: Trec Environmental Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 11 feet	Backfill:	Borehole Diameter:	DTW: 9 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		GP		Brown, moist, mostly subangular gravel, some fine sand, little fill (brick, cinders), loose when disturbed, no odors				
				Landscape fabric				
		MIXD		Fill- Black/white, moist, mostly fill (cobbles, brick, cinders, ash), some silty sand with organics, medium dense, no odors				
5		MLS		Silty Sand- Black, moist, mostly fine sand, little silt, medium dense, no odors				
		SP		Fine Sand- Grey/silver, moist to wet (9'), mostly fine sand, medium dense, no odors				
	▽ GROUND WATER LEVEL							
10		SW		Well Graded Sand- Orange/Brown, wet, mostly well graded sand, medium dense, no odors				
				Refusal due to large amount of water Bottom of test pit at 11 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-32

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/12/2025 - 2/12/2025	Contractor: Trec Environmental Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 8 feet	Backfill:	Borehole Diameter:	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	GP		Subangular Gravel				
	MIXD		Fill- Black/grey, moist, mostly fill (brick, cinders,ash, metal), some fine sand, medium dense, no odors				
5	MLS		Silty Sand- Black, moist, mostly fine sand, little silt, medium dense, no odors				
	SP		Fine Sand- Grey/silver, moist, mostly fine sand, medium dense, no odors, refual due to metal pipe				
			Refusal due to steel pile Bottom of test pit at 8 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-33

Client: North Aud Owner LLC	Site: North Aud Block Site		Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY		Logged By: NAS
Start to Finish Date: 2/12/2025 - 2/12/2025	Contractor: Trec Environmental Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 11 feet	Backfill:	Borehole Diameter:	DTW: 9 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		GP		Subangular Gravel				
				Landscape fabric				
		MIXD		Fill- Black/brown, moist, mostly fill (ash, cinders, brick, black fines, metal column), some silty sand with organics, medium dense, no odors				
5		SP		Fine Sand- Grey/silver, moist to wet (9'), mostly fine sand, medium dense, no odors				
	▽ GROUND WATER LEVEL							
10		SW		Well Graded Sand- Orange/Brown, wet, mostly well graded sand, medium dense, no odors				
				Refusal due to large amount of water Bottom of test pit at 11 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

TP-34

Client: North Aud Owner LLC	Site: North Aud Block Site	Project Number: 4375.0002B000
Address: 130 Main Street	City/State: Buffalo, NY	Logged By: NAS

Start to Finish Date: 2/12/2025 - 2/12/2025	Contractor: Trec Environmental Inc.	Drill Type: Excavator	Sampler Type/Method:
Borehole Depth: 15 feet	Backfill:	Borehole Diameter:	DTW: 14 feet
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		MIXD		Fill- Brown, moist, mostly sandy lean clay, some fill (brick, cinders, glass, concrete, wood), loose when disturbed, no odors				
5		MIXD		Fill- White, moist mostly ash, loose when disturbed, no odors				
		MLS		Silty Sand- Black, moist, mostly fine sand, little silt, medium dense, no odors				
10		SP		Fine Sand- Grey/silver, moist to wet (14'), mostly fine sand, medium dense, no odors				
	GROUND WATER LEVEL							
15				Refusal due to large amount of water Bottom of test pit at 15 feet				

ROUX STANDARD LOG_ - 4/10/25 09:23 - F:\GINT\PROJECTS\NORTH AUD\NORTH AUD BLOCK SITE.GPJ

APPENDIX C

Laboratory Analytical Data Packages

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Generated 2/26/2025 2:44:54 PM

JOB DESCRIPTION

North Aud Block

JOB NUMBER

480-227296-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

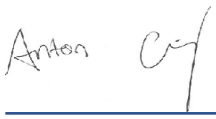
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 15
Surrogate Summary 61
Isotope Dilution Summary 64
QC Sample Results 65
QC Association Summary 96
Lab Chronicle 103
Certification Summary 110
Method Summary 111
Sample Summary 112
Chain of Custody 113
Receipt Checklists 118

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-227296-1 Eurofins Buffalo

Job Narrative
480-227296-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/11/2025 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.0°C and 3.7°C.

GC/MS VOA
Method 8260C - TCLP: The following samples were diluted due to the nature of the TCLP matrix: RISB-2 1-4 ft (480-227296-11), RISB-3 0.5-3 ft (480-227296-12) and (LB 480-738886/1-A). Elevated reporting limits (RLs) are provided.

Method 8260C - TCLP: Due to the coelution of Ethyl Acetate with 2-Butanone (MEK) in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with batch 480-739017 . The following samples were affected : RISB-2 1-4 ft (480-227296-11) and RISB-3 0.5-3 ft (480-227296-12).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to color, appearance, and viscosity: TP-28 0-2 ft (480-227296-1). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample(s) was diluted due to color, appearance,and viscosity. SS-7 (480-227296-6). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: The following sample: MW-1 12-15 ft (480-227296-10) was decanted prior to preparation

Method 8081B: The following samples required a Florisil clean-up, via 3620C, to reduce matrix interferences: TP-28 0-2 ft (480-227296-1), MW-4 0.5-2 ft (480-227296-3), SS-7 (480-227296-6), TP-30 2-3 ft (480-227296-7) and MW-1 1.5-4.25 ft (480-227296-8).

Method 8081B: The following samples were diluted due to the nature of the sample matrix: TP-28 0-2 ft (480-227296-1), MW-4 0.5-2 ft (480-227296-3) and SS-7 (480-227296-6). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Job ID: 480-227296-1 (Continued) Eurofins Buffalo

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RISB-2 1-4 ft (480-227296-11) and RISB-3 0.5-3 ft (480-227296-12).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: TP-28 0-2 ft
Lab Sample ID: 480-227296-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	3.7	J	22	1.6	ug/Kg	1	☼	8260C	Total/NA
Acetone	18	J	22	3.7	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.38	J B	4.4	0.27	ug/Kg	1	☼	8260C	Total/NA
Acenaphthylene	110	J	880	110	ug/Kg	5	☼	8270D	Total/NA
Anthracene	310	J	880	220	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	800	J	880	88	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	770	J	880	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1100		880	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	560	J	880	94	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	440	J	880	110	ug/Kg	5	☼	8270D	Total/NA
Chrysene	820	J	880	200	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	190	J	880	160	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	110	J	880	100	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1900		880	94	ug/Kg	5	☼	8270D	Total/NA
Fluorene	160	J	880	100	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	480	J	880	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	1300		880	130	ug/Kg	5	☼	8270D	Total/NA
Pyrene	1400		880	100	ug/Kg	5	☼	8270D	Total/NA
Perfluorooctanoic acid (PFOA)	0.052	J	0.13	0.033	ug/Kg	1	☼	1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.039	J	0.13	0.033	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.086	J	0.13	0.033	ug/Kg	1	☼	1633	Total/NA
Aluminum	5430		10.8	9.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.5		2.2	0.95	mg/Kg	1	☼	6010C	Total/NA
Barium	41.7		0.54	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.25		0.22	0.043	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.22		0.22	0.076	mg/Kg	1	☼	6010C	Total/NA
Calcium	53600		54.2	29.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	7.3		0.54	0.39	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.8		0.54	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	25.0		1.1	0.62	mg/Kg	1	☼	6010C	Total/NA
Iron	7280		10.8	9.2	mg/Kg	1	☼	6010C	Total/NA
Lead	92.9		1.1	0.50	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7180		21.7	9.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	188		1.1	0.30	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.8		5.4	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	1240		32.5	26.3	mg/Kg	1	☼	6010C	Total/NA
Sodium	212		152	66.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	11.5	*+ *-	0.54	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	73.4		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.32	F1	0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-28 5-7 ft
Lab Sample ID: 480-227296-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4670		11.3	9.7	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.8	J	2.3	0.99	mg/Kg	1	☼	6010C	Total/NA
Barium	13.1		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.19	J	0.23	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.13	J	0.23	0.079	mg/Kg	1	☼	6010C	Total/NA
Calcium	154000		281	152	mg/Kg	5	☼	6010C	Total/NA
Chromium	8.4		0.56	0.41	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: TP-28 5-7 ft (Continued)
Lab Sample ID: 480-227296-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	2.2		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	8.3		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Iron	8050		11.3	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	6.9		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Magnesium	88000		113	47.7	mg/Kg	5	☼	6010C	Total/NA
Manganese	237		1.1	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	6.2		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1880		33.8	27.3	mg/Kg	1	☼	6010C	Total/NA
Sodium	220		158	69.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	8.8	*+ *-	0.56	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	29.2		2.3	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.016	J	0.023	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-4 0.5-2 ft
Lab Sample ID: 480-227296-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.35	J B	4.3	0.27	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	92	J	190	27	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	27	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Anthracene	250		190	46	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	500		190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	460		190	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	570		190	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	310	F2	190	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	240		190	24	ug/Kg	1	☼	8270D	Total/NA
Carbazole	96	J	190	22	ug/Kg	1	☼	8270D	Total/NA
Chrysene	520		190	42	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	110	J	190	33	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	57	J	190	22	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1100		190	20	ug/Kg	1	☼	8270D	Total/NA
Fluorene	100	J	190	22	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	270		190	23	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1000	F2	190	27	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1100	F1 F2	190	22	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDD	2.9	J	9.1	1.8	ug/Kg	5	☼	8081B	Total/NA
4,4'-DDT	4.4	J	9.1	2.1	ug/Kg	5	☼	8081B	Total/NA
Methoxychlor	1.9	J	9.1	1.9	ug/Kg	5	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.076	J	0.14	0.035	ug/Kg	1	☼	1633	Total/NA
Aluminum	6400		10.5	9.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	3.3	J	15.7	0.55	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.6		2.1	0.92	mg/Kg	1	☼	6010C	Total/NA
Barium	101		0.52	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.33		0.21	0.042	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.32		0.21	0.073	mg/Kg	1	☼	6010C	Total/NA
Calcium	28000		52.3	28.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	13.4		0.52	0.38	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.8		0.52	0.10	mg/Kg	1	☼	6010C	Total/NA
Copper	50.9		1.0	0.60	mg/Kg	1	☼	6010C	Total/NA
Iron	11700		10.5	8.9	mg/Kg	1	☼	6010C	Total/NA
Lead	464		1.0	0.48	mg/Kg	1	☼	6010C	Total/NA
Magnesium	6260		20.9	8.9	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-4 0.5-2 ft (Continued)
Lab Sample ID: 480-227296-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	192		1.0	0.29	mg/Kg	1	☼	6010C	Total/NA
Nickel	10.6		5.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1350		31.4	25.4	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.0	J	4.2	0.84	mg/Kg	1	☼	6010C	Total/NA
Sodium	179		147	64.2	mg/Kg	1	☼	6010C	Total/NA
Vanadium	13.9	*+ *-	0.52	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	175		2.1	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	1.3		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-4 5-8 ft
Lab Sample ID: 480-227296-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	270		210	31	ug/Kg	1	☼	8270D	Total/NA
Aluminum	4380		12.9	11.1	mg/Kg	1	☼	6010C	Total/NA
Barium	17.3		0.64	0.18	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.17	J	0.26	0.051	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.13	J	0.26	0.090	mg/Kg	1	☼	6010C	Total/NA
Calcium	5100		64.3	34.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.9		0.64	0.46	mg/Kg	1	☼	6010C	Total/NA
Cobalt	1.5		0.64	0.13	mg/Kg	1	☼	6010C	Total/NA
Copper	1.9		1.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Iron	3780		12.9	10.9	mg/Kg	1	☼	6010C	Total/NA
Lead	5.8		1.3	0.59	mg/Kg	1	☼	6010C	Total/NA
Magnesium	1760		25.7	10.9	mg/Kg	1	☼	6010C	Total/NA
Manganese	41.2		1.3	0.36	mg/Kg	1	☼	6010C	Total/NA
Nickel	4.9	J	6.4	0.32	mg/Kg	1	☼	6010C	Total/NA
Potassium	747		38.6	31.2	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.0	J	5.1	1.0	mg/Kg	1	☼	6010C	Total/NA
Sodium	99.8	J	180	78.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	9.0	*+ *-	0.64	0.17	mg/Kg	1	☼	6010C	Total/NA
Zinc	30.4		2.6	1.3	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: MW-4 12-15 ft
Lab Sample ID: 480-227296-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	5700		12.3	10.6	mg/Kg	1	☼	6010C	Total/NA
Barium	16.1		0.61	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.25		0.25	0.049	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20	J	0.25	0.086	mg/Kg	1	☼	6010C	Total/NA
Calcium	82600		61.5	33.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.0		0.61	0.44	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.5		0.61	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	8.9		1.2	0.70	mg/Kg	1	☼	6010C	Total/NA
Iron	6330		12.3	10.4	mg/Kg	1	☼	6010C	Total/NA
Lead	7.6		1.2	0.57	mg/Kg	1	☼	6010C	Total/NA
Magnesium	55300		123	52.1	mg/Kg	5	☼	6010C	Total/NA
Manganese	182		1.2	0.34	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.3		6.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Potassium	2120		36.9	29.8	mg/Kg	1	☼	6010C	Total/NA
Sodium	244		172	75.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	11.0	*+ *-	0.61	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	36.6		2.5	1.3	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-4 12-15 ft (Continued)
Lab Sample ID: 480-227296-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.016	J	0.024	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-7
Lab Sample ID: 480-227296-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	1200	J	3800	750	ug/Kg	20	☼	8270D	Total/NA
Acenaphthene	1200	J	3800	550	ug/Kg	20	☼	8270D	Total/NA
Anthracene	3900		3800	930	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene	4800		3800	380	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	3900		3800	550	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	5100		3800	600	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1900	J	3800	400	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	2000	J	3800	490	ug/Kg	20	☼	8270D	Total/NA
Carbazole	1000	J	3800	440	ug/Kg	20	☼	8270D	Total/NA
Chrysene	4200		3800	840	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	700	J	3800	660	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	1900	J	3800	440	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	12000		3800	400	ug/Kg	20	☼	8270D	Total/NA
Fluorene	3500	J	3800	440	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1800	J	3800	460	ug/Kg	20	☼	8270D	Total/NA
Naphthalene	1400	J	3800	490	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	14000		3800	550	ug/Kg	20	☼	8270D	Total/NA
Pyrene	7800		3800	440	ug/Kg	20	☼	8270D	Total/NA
Aluminum	7350		11.2	9.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.8		2.2	0.98	mg/Kg	1	☼	6010C	Total/NA
Barium	157		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.35		0.22	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.37		0.22	0.078	mg/Kg	1	☼	6010C	Total/NA
Calcium	71700		56.0	30.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	12.0		0.56	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.1		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	27.9		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Iron	11500		11.2	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	309		1.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Magnesium	13200		22.4	9.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	244		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.1		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1990		33.6	27.1	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.0	J	4.5	0.90	mg/Kg	1	☼	6010C	Total/NA
Sodium	306		157	68.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	18.0	*+ *-	0.56	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	178		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.33		0.021	0.0049	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-30 2-3 ft
Lab Sample ID: 480-227296-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Endosulfan sulfate	1.0	J	1.9	0.35	ug/Kg	1	☼	8081B	Total/NA
Aluminum	9740		11.2	9.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.3	J	2.2	0.98	mg/Kg	1	☼	6010C	Total/NA
Barium	49.4		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.37		0.22	0.045	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: TP-30 2-3 ft (Continued)
Lab Sample ID: 480-227296-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.24		0.22	0.078	mg/Kg	1	☼	6010C	Total/NA
Calcium	11600		55.8	30.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	10.9		0.56	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.2		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	7.6		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Iron	8570		11.2	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	13.7		1.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Magnesium	6600		22.3	9.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	114		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	10.2		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1900		33.5	27.0	mg/Kg	1	☼	6010C	Total/NA
Sodium	166		156	68.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	19.5	*+ *-	0.56	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	67.4		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.12		0.024	0.0055	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-1 1.5-4.25 ft
Lab Sample ID: 480-227296-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8480		12.3	10.6	mg/Kg	1	☼	6010C	Total/NA
Barium	29.7		0.62	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.33		0.25	0.049	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.23	J	0.25	0.086	mg/Kg	1	☼	6010C	Total/NA
Calcium	24800		61.6	33.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	18.1		0.62	0.44	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.2		0.62	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	7.8		1.2	0.70	mg/Kg	1	☼	6010C	Total/NA
Iron	10100		12.3	10.4	mg/Kg	1	☼	6010C	Total/NA
Lead	10		1.2	0.57	mg/Kg	1	☼	6010C	Total/NA
Magnesium	11500		24.6	10.4	mg/Kg	1	☼	6010C	Total/NA
Manganese	255		1.2	0.34	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.7		6.2	0.31	mg/Kg	1	☼	6010C	Total/NA
Potassium	1600		37.0	29.9	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.2	J	4.9	0.99	mg/Kg	1	☼	6010C	Total/NA
Sodium	189		172	75.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	14.7	*+ *-	0.62	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	43.8		2.5	1.3	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.035		0.025	0.0058	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-1 5-7 ft
Lab Sample ID: 480-227296-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Butyl benzyl phthalate	33	J	200	32	ug/Kg	1	☼	8270D	Total/NA
Aluminum	8390		11.2	9.7	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.2	J	2.2	0.99	mg/Kg	1	☼	6010C	Total/NA
Barium	53.5		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.39		0.22	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.24		0.22	0.078	mg/Kg	1	☼	6010C	Total/NA
Calcium	945		56.1	30.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	9.7		0.56	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.1		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	12.4		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1 5-7 ft (Continued)
Lab Sample ID: 480-227296-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	6580		11.2	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	11.4		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Magnesium	2240		22.4	9.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	41.7		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.6		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1700		33.6	27.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	167		157	68.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	16.7	*+ *-	0.56	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	92.1		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.034		0.022	0.0052	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-1 12-15 ft
Lab Sample ID: 480-227296-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3740		12.7	10.9	mg/Kg	1	☼	6010C	Total/NA
Barium	13.7		0.63	0.18	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.17	J	0.25	0.051	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20	J	0.25	0.089	mg/Kg	1	☼	6010C	Total/NA
Calcium	55900		63.4	34.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.0		0.63	0.46	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.1		0.63	0.13	mg/Kg	1	☼	6010C	Total/NA
Copper	8.5		1.3	0.72	mg/Kg	1	☼	6010C	Total/NA
Iron	5540		12.7	10.7	mg/Kg	1	☼	6010C	Total/NA
Lead	6.0		1.3	0.58	mg/Kg	1	☼	6010C	Total/NA
Magnesium	31600		25.3	10.7	mg/Kg	1	☼	6010C	Total/NA
Manganese	162		1.3	0.35	mg/Kg	1	☼	6010C	Total/NA
Nickel	5.1	J	6.3	0.32	mg/Kg	1	☼	6010C	Total/NA
Potassium	1300		38.0	30.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	224		177	77.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	8.1	*+ *-	0.63	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	34.0		2.5	1.3	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.0091	J	0.024	0.0055	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: RISB-2 1-4 ft
Lab Sample ID: 480-227296-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.012	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.40	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0090		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	9.1		0.020	0.0030	mg/L	1		6010C	TCLP
Mercury	0.00010	J	0.00020	0.000042	mg/L	1		7470A	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	16.5	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: RISB-3 0.5-3 ft
Lab Sample ID: 480-227296-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0091	J	0.10	0.0016	mg/L	1		8270D	TCLP
Arsenic	0.0077	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.55	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0018	J	0.0020	0.00050	mg/L	1		6010C	TCLP

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: RISB-3 0.5-3 ft (Continued)
Lab Sample ID: 480-227296-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.051		0.020	0.0030	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	16.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: TP-28 0-2 ft
Lab Sample ID: 480-227296-1
Date Collected: 02/11/25 11:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 95.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.4	0.32	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.71	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4	1.0	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,1,2-Trichloroethane	ND		4.4	0.57	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,1-Dichloroethane	ND		4.4	0.53	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,1-Dichloroethene	ND		4.4	0.54	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,2,4-Trichlorobenzene	ND		4.4	0.27	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,2,4-Trimethylbenzene	ND		4.4	0.84	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,2-Dibromo-3-Chloropropane	ND		4.4	2.2	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,2-Dichlorobenzene	ND		4.4	0.34	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,2-Dichloroethane	ND		4.4	0.22	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,2-Dichloropropane	ND		4.4	2.2	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,3,5-Trimethylbenzene	ND		4.4	0.28	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,3-Dichlorobenzene	ND		4.4	0.22	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,4-Dichlorobenzene	ND		4.4	0.61	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
2-Butanone (MEK)	**3.7**	**J**	22	1.6	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
4-Isopropyltoluene	ND		4.4	0.35	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Acetone	**18**	**J**	22	3.7	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Benzene	ND		4.4	0.21	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Bromoform	ND		4.4	2.2	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Bromomethane	ND		4.4	0.39	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Carbon disulfide	ND		4.4	2.2	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Carbon tetrachloride	ND		4.4	0.42	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Chlorobenzene	ND		4.4	0.58	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Dibromochloromethane	ND		4.4	0.56	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Chloroethane	ND		4.4	0.99	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Chloroform	**0.38**	**J B**	4.4	0.27	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Chloromethane	ND		4.4	0.26	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
cis-1,2-Dichloroethene	ND		4.4	0.56	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Cyclohexane	ND		4.4	0.61	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Bromodichloromethane	ND		4.4	0.59	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Dichlorodifluoromethane	ND		4.4	0.36	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Ethylbenzene	ND		4.4	0.30	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
1,2-Dibromoethane	ND		4.4	0.56	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Isopropylbenzene	ND		4.4	0.66	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Methyl acetate	ND		22	2.6	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Methyl tert-butyl ether	ND		4.4	0.43	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Methylcyclohexane	ND		4.4	0.66	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Methylene Chloride	ND		4.4	2.0	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
m,p-Xylene	ND		8.7	0.73	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Naphthalene	ND		4.4	0.59	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
n-Butylbenzene	ND		4.4	0.38	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
N-Propylbenzene	ND		4.4	0.35	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
o-Xylene	ND		4.4	0.57	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
sec-Butylbenzene	ND		4.4	0.38	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Tetrachloroethene	ND		4.4	0.59	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Toluene	ND		4.4	0.33	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1

Client Sample ID: TP-28 0-2 ft
Date Collected: 02/11/25 11:30
Date Received: 02/11/25 16:00

Lab Sample ID: 480-227296-1
Matrix: Solid
Percent Solids: 95.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		4.4	0.45	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
trans-1,3-Dichloropropene	ND		4.4	1.9	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Trichloroethene	ND		4.4	0.96	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Trichlorofluoromethane	ND		4.4	0.41	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Vinyl chloride	ND		4.4	0.53	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Xylenes, Total	ND		8.7	0.73	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
cis-1,3-Dichloropropene	ND		4.4	0.63	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
Styrene	ND		4.4	0.22	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1
tert-Butylbenzene	ND		4.4	0.45	ug/Kg	☼	02/12/25 14:39	02/13/25 18:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/12/25 14:39*	*02/13/25 18:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*02/12/25 14:39*	*02/13/25 18:11*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*02/12/25 14:39*	*02/13/25 18:11*	*1*
Toluene-d8 (Surr)	*92*		*71 - 125*	*02/12/25 14:39*	*02/13/25 18:11*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*	*02/12/25 14:39*	*02/13/25 18:11*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		880	130	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
bis (2-chloroisopropyl) ether	ND		880	180	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2,4,5-Trichlorophenol	ND		880	240	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2,4,6-Trichlorophenol	ND		880	180	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2,4-Dichlorophenol	ND		880	94	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2,4-Dimethylphenol	ND		880	210	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2,4-Dinitrophenol	ND		8600	4100	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2,4-Dinitrotoluene	ND		880	180	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2,6-Dinitrotoluene	ND		880	100	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2-Chloronaphthalene	ND		880	150	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
1,4-Dioxane	ND		520	290	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2-Chlorophenol	ND		1700	160	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2-Methylnaphthalene	ND		880	180	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2-Methylphenol	ND		880	100	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2-Nitroaniline	ND		1700	130	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
2-Nitrophenol	ND		880	250	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
3,3'-Dichlorobenzidine	ND		1700	1000	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
3-Nitroaniline	ND		1700	240	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
4,6-Dinitro-2-methylphenol	ND		1700	880	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
4-Bromophenyl phenyl ether	ND		880	120	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
4-Chloro-3-methylphenol	ND		880	220	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
4-Chloroaniline	ND		880	220	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
4-Chlorophenyl phenyl ether	ND		880	110	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
4-Methylphenol	ND		1700	100	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
4-Nitroaniline	ND		1700	460	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
4-Nitrophenol	ND		1700	620	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Acenaphthene	ND		880	130	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Acenaphthylene	**110**	**J**	880	110	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Acetophenone	ND		880	120	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5

Client Sample ID: TP-28 0-2 ft
Lab Sample ID: 480-227296-1
Date Collected: 02/11/25 11:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 95.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**310**	**J**	880	220	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Atrazine	ND		880	310	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Benzaldehyde	ND		880	700	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Benzo[a]anthracene	**800**	**J**	880	88	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Benzo[a]pyrene	**770**	**J**	880	130	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Benzo[b]fluoranthene	**1100**		880	140	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Benzo[g,h,i]perylene	**560**	**J**	880	94	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Benzo[k]fluoranthene	**440**	**J**	880	110	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Bis(2-chloroethoxy)methane	ND		880	190	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Bis(2-chloroethyl)ether	ND		880	110	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Bis(2-ethylhexyl) phthalate	ND		880	300	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Butyl benzyl phthalate	ND		880	150	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Caprolactam	ND		880	260	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Carbazole	ND		880	100	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Chrysene	**820**	**J**	880	200	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Di-n-butyl phthalate	ND		880	150	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Di-n-octyl phthalate	ND		880	100	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Dibenz(a,h)anthracene	**190**	**J**	880	160	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Dibenzofuran	**110**	**J**	880	100	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Diethyl phthalate	ND		880	110	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Dimethyl phthalate	ND		880	100	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Fluoranthene	**1900**		880	94	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Fluorene	**160**	**J**	880	100	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Hexachlorobenzene	ND		880	120	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Hexachlorobutadiene	ND		880	130	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Hexachlorocyclopentadiene	ND		880	120	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Hexachloroethane	ND		880	110	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Indeno[1,2,3-cd]pyrene	**480**	**J**	880	110	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Isophorone	ND		880	190	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
N-Nitrosodi-n-propylamine	ND		880	150	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
N-Nitrosodiphenylamine	ND		880	720	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Naphthalene	ND		880	110	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Nitrobenzene	ND		880	99	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Pentachlorophenol	ND		1700	880	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Phenanthrene	**1300**		880	130	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Phenol	ND		880	140	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5
Pyrene	**1400**		880	100	ug/Kg	☼	02/13/25 13:37	02/14/25 16:48	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2000*	*T J*	*ug/Kg*	☼	*3.15*	*N/A*	*02/13/25 13:37*	*02/14/25 16:48*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*26 - 143*	*02/13/25 13:37*	*02/14/25 16:48*	*5*
2-Fluorobiphenyl	*88*		*50 - 121*	*02/13/25 13:37*	*02/14/25 16:48*	*5*
2-Fluorophenol	*81*		*36 - 120*	*02/13/25 13:37*	*02/14/25 16:48*	*5*
Nitrobenzene-d5	*84*		*40 - 121*	*02/13/25 13:37*	*02/14/25 16:48*	*5*
p-Terphenyl-d14	*94*		*46 - 143*	*02/13/25 13:37*	*02/14/25 16:48*	*5*
Phenol-d5	*80*		*41 - 120*	*02/13/25 13:37*	*02/14/25 16:48*	*5*

Client Sample ID: TP-28 0-2 ft
Date Collected: 02/11/25 11:30
Date Received: 02/11/25 16:00

Lab Sample ID: 480-227296-1
Matrix: Solid
Percent Solids: 95.4

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		17	3.3	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
4,4'-DDE	ND		17	3.6	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
4,4'-DDT	ND		17	4.0	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Aldrin	ND		17	4.2	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
alpha-BHC	ND		17	3.1	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
cis-Chlordane	ND		17	8.5	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
beta-BHC	ND		17	3.1	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
delta-BHC	ND		17	3.2	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Dieldrin	ND		17	4.1	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Endosulfan I	ND		17	3.3	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Endosulfan II	ND		17	3.1	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Endosulfan sulfate	ND		17	3.2	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Endrin	ND		17	3.4	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Endrin aldehyde	ND		17	4.4	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Endrin ketone	ND		17	4.2	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
gamma-BHC (Lindane)	ND		17	3.1	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
trans-Chlordane	ND		17	5.4	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Heptachlor	ND		17	3.7	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Heptachlor epoxide	ND		17	4.4	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Methoxychlor	ND		17	3.5	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10
Toxaphene	ND		170	100	ug/Kg	☼	02/13/25 06:37	02/14/25 10:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*45 - 120*	*02/13/25 06:37*	*02/14/25 10:24*	*10*
DCB Decachlorobiphenyl	*197*	*S1+*	*45 - 120*	*02/13/25 06:37*	*02/14/25 10:24*	*10*
Tetrachloro-m-xylene	*61*		*30 - 124*	*02/13/25 06:37*	*02/14/25 10:24*	*10*
Tetrachloro-m-xylene	*81*		*30 - 124*	*02/13/25 06:37*	*02/14/25 10:24*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	02/13/25 06:45	02/14/25 17:40	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	02/13/25 06:45	02/14/25 17:40	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	02/13/25 06:45	02/14/25 17:40	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	02/13/25 06:45	02/14/25 17:40	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	02/13/25 06:45	02/14/25 17:40	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	02/13/25 06:45	02/14/25 17:40	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	02/13/25 06:45	02/14/25 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*60 - 154*	*02/13/25 06:45*	*02/14/25 17:40*	*1*
Tetrachloro-m-xylene	*108*		*60 - 154*	*02/13/25 06:45*	*02/14/25 17:40*	*1*
DCB Decachlorobiphenyl	*135*		*65 - 174*	*02/13/25 06:45*	*02/14/25 17:40*	*1*
DCB Decachlorobiphenyl	*111*		*65 - 174*	*02/13/25 06:45*	*02/14/25 17:40*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.5	ug/Kg	☼	02/13/25 06:44	02/19/25 19:10	1
Silvex (2,4,5-TP)	ND		17	6.2	ug/Kg	☼	02/13/25 06:44	02/19/25 19:10	1
2,4-D	ND		17	11	ug/Kg	☼	02/13/25 06:44	02/19/25 19:10	1
Dichlorprop	ND		17	8.6	ug/Kg	☼	02/13/25 06:44	02/19/25 19:10	1

Client Sample ID: TP-28 0-2 ft
Date Collected: 02/11/25 11:30
Date Received: 02/11/25 16:00

Lab Sample ID: 480-227296-1
Matrix: Solid
Percent Solids: 95.4

Method: SW846 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		17	5.6	ug/Kg	☼	02/13/25 06:44	02/19/25 19:10	1
Picloram	ND		17	7.4	ug/Kg	☼	02/13/25 06:44	02/19/25 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*02/13/25 06:44*	*02/19/25 19:10*	*1*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*02/13/25 06:44*	*02/19/25 19:10*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.52	0.13	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluoropentanoic acid (PFPeA)	ND		0.26	0.065	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorohexanoic acid (PFHxA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluoroheptanoic acid (PFHpA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorooctanoic acid (PFOA)	**0.052**	**J**	0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorononanoic acid (PFNA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorodecanoic acid (PFDA)	**0.039**	**J**	0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluoroundecanoic acid (PFUnA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorododecanoic acid (PFDoA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorooctanesulfonic acid (PFOS)	**0.086**	**J**	0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorononanesulfonic acid (PFNS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.52	0.13	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.52	0.13	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.52	0.13	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.3	0.33	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.3	0.33	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.52	0.13	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.52	0.13	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1

Client Sample ID: TP-28 0-2 ft
Lab Sample ID: 480-227296-1

Date Collected: 02/11/25 11:30
Matrix: Solid

Date Received: 02/11/25 16:00
Percent Solids: 95.4

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.26	0.065	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.26	0.065	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.52	0.13	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.52	0.13	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.26	0.065	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.65	0.16	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.3	0.81	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.3	0.81	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.26	0.065	ug/Kg	☼	02/17/25 08:26	02/20/25 12:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95.7*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C5 PFPeA	*94.5*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C5 PFHxA	*96.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C4 PFHpA	*96.9*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C8 PFOA	*88.8*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C9 PFNA	*93.5*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C6 PFDA	*95.4*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C7 PFUnA	*91.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C2 PFTeDA	*79.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C3 PFBS	*87.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C3 PFHxS	*85.2*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C8 PFOS	*95.2*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C8 PFOSA	*99.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
d3-NMeFOSAA	*86.4*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
d5-NEtFOSAA	*89.8*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
M2-4:2 FTS	*91.4*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
M2-6:2 FTS	*89.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
M2-8:2 FTS	*78.8*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C3 HFPO-DA	*97.7*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
d7-N-MeFOSE-M	*57.3*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
d9-N-EtFOSE-M	*50.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
d5-NEtPFOSA	*80.5*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
D3-NMeFOSA	*85.5*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*
13C2-PFDoDA	*86.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:54*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5430**		10.8	9.4	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Antimony	ND		16.3	0.58	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Arsenic	**2.5**		2.2	0.95	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Barium	**41.7**		0.54	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Beryllium	**0.25**		0.22	0.043	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1

Client Sample ID: TP-28 0-2 ft
Lab Sample ID: 480-227296-1
Date Collected: 02/11/25 11:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 95.4

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.22		0.22	0.076	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Calcium	53600		54.2	29.3	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Chromium	7.3		0.54	0.39	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Cobalt	2.8		0.54	0.11	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Copper	25.0		1.1	0.62	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Iron	7280		10.8	9.2	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Lead	92.9		1.1	0.50	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Magnesium	7180		21.7	9.2	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Manganese	188		1.1	0.30	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Nickel	7.8		5.4	0.27	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Potassium	1240		32.5	26.3	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Selenium	ND		4.3	0.87	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Silver	ND		0.65	0.22	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Sodium	212		152	66.5	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Thallium	ND		6.5	0.82	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Vanadium	11.5	*+ *-	0.54	0.14	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1
Zinc	73.4		2.2	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.32	F1	0.022	0.0050	mg/Kg	☼	02/14/25 10:25	02/14/25 14:54	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: TP-28 5-7 ft
Lab Sample ID: 480-227296-2
Date Collected: 02/11/25 11:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 84.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2,4-Dinitrophenol	ND		1900	920	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
1,4-Dioxane	ND		120	65	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2-Chlorophenol	ND		390	36	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2-Methylphenol	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
3,3'-Dichlorobenzidine	ND		390	230	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
4-Methylphenol	ND		390	23	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Acenaphthene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Acenaphthylene	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Acetophenone	ND		200	27	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Anthracene	ND		200	49	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Atrazine	ND		200	69	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Caprolactam	ND		200	60	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Carbazole	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Chrysene	ND		200	45	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Dibenzofuran	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1

Client Sample ID: TP-28 5-7 ft
Lab Sample ID: 480-227296-2
Date Collected: 02/11/25 11:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 84.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Fluoranthene	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Fluorene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Hexachloroethane	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Isophorone	ND		200	42	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Naphthalene	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Nitrobenzene	ND		200	22	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Phenanthrene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Phenol	ND		200	30	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1
Pyrene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 15:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14000*	*T J*	*ug/Kg*	☼	*1.81*	*N/A*	*02/18/25 14:01*	*02/19/25 15:34*	*1*
Unknown	*2400*	*T J*	*ug/Kg*	☼	*3.14*	*N/A*	*02/18/25 14:01*	*02/19/25 15:34*	*1*
Unknown	*240*	*T J*	*ug/Kg*	☼	*13.25*	*N/A*	*02/18/25 14:01*	*02/19/25 15:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*26 - 143*	*02/18/25 14:01*	*02/19/25 15:34*	*1*
2-Fluorobiphenyl	*83*		*50 - 121*	*02/18/25 14:01*	*02/19/25 15:34*	*1*
2-Fluorophenol	*77*		*36 - 120*	*02/18/25 14:01*	*02/19/25 15:34*	*1*
Nitrobenzene-d5	*83*		*40 - 121*	*02/18/25 14:01*	*02/19/25 15:34*	*1*
p-Terphenyl-d14	*89*		*46 - 143*	*02/18/25 14:01*	*02/19/25 15:34*	*1*
Phenol-d5	*82*		*41 - 120*	*02/18/25 14:01*	*02/19/25 15:34*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
alpha-BHC	ND		1.9	0.34	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
cis-Chlordane	ND		1.9	0.95	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
delta-BHC	ND		1.9	0.36	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
Endrin	ND		1.9	0.38	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
trans-Chlordane	ND		1.9	0.61	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1

Client Sample ID: TP-28 5-7 ft
Date Collected: 02/11/25 11:45
Date Received: 02/11/25 16:00

Lab Sample ID: 480-227296-2
Matrix: Solid
Percent Solids: 84.7

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.41	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1
Toxaphene	ND		19	11	ug/Kg	☼	02/13/25 06:37	02/14/25 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*45 - 120*	*02/13/25 06:37*	*02/14/25 10:43*	*1*
DCB Decachlorobiphenyl	*107*		*45 - 120*	*02/13/25 06:37*	*02/14/25 10:43*	*1*
Tetrachloro-m-xylene	*87*		*30 - 124*	*02/13/25 06:37*	*02/14/25 10:43*	*1*
Tetrachloro-m-xylene	*85*		*30 - 124*	*02/13/25 06:37*	*02/14/25 10:43*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4670**		11.3	9.7	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Antimony	ND		16.9	0.60	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Arsenic	**1.8**	**J**	2.3	0.99	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Barium	**13.1**		0.56	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Beryllium	**0.19**	**J**	0.23	0.045	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Cadmium	**0.13**	**J**	0.23	0.079	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Calcium	**154000**		281	152	mg/Kg	☼	02/14/25 12:34	02/18/25 16:45	5
Chromium	**8.4**		0.56	0.41	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Cobalt	**2.2**		0.56	0.11	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Copper	**8.3**		1.1	0.64	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Iron	**8050**		11.3	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Lead	**6.9**		1.1	0.52	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Magnesium	**88000**		113	47.7	mg/Kg	☼	02/14/25 12:34	02/18/25 16:45	5
Manganese	**237**		1.1	0.32	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Nickel	**6.2**		5.6	0.28	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Potassium	**1880**		33.8	27.3	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Selenium	ND		4.5	0.90	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Silver	ND		0.68	0.23	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Sodium	**220**		158	69.0	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Thallium	ND		6.8	0.86	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Vanadium	**8.8**	***+ *-**	0.56	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1
Zinc	**29.2**		2.3	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.023	0.0054	mg/Kg	☼	02/14/25 10:25	02/14/25 15:02	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: MW-4 0.5-2 ft
Lab Sample ID: 480-227296-3
Date Collected: 02/11/25 10:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 90.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.3	0.31	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,1,2,2-Tetrachloroethane	ND		4.3	0.70	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3	0.98	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,1,2-Trichloroethane	ND		4.3	0.56	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,1-Dichloroethane	ND		4.3	0.53	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,1-Dichloroethene	ND		4.3	0.53	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,2,4-Trichlorobenzene	ND		4.3	0.26	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,2,4-Trimethylbenzene	ND		4.3	0.83	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,2-Dibromo-3-Chloropropane	ND		4.3	2.2	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,2-Dichlorobenzene	ND		4.3	0.34	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,2-Dichloroethane	ND		4.3	0.22	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,2-Dichloropropane	ND		4.3	2.2	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,3,5-Trimethylbenzene	ND		4.3	0.28	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,3-Dichlorobenzene	ND		4.3	0.22	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,4-Dichlorobenzene	ND		4.3	0.60	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
4-Isopropyltoluene	ND		4.3	0.35	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Acetone	ND		22	3.6	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Benzene	ND		4.3	0.21	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Bromoform	ND		4.3	2.2	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Bromomethane	ND		4.3	0.39	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Carbon disulfide	ND		4.3	2.2	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Carbon tetrachloride	ND		4.3	0.42	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Chlorobenzene	ND		4.3	0.57	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Dibromochloromethane	ND		4.3	0.55	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Chloroethane	ND		4.3	0.98	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Chloroform	**0.35**	**J B**	4.3	0.27	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Chloromethane	ND		4.3	0.26	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
cis-1,2-Dichloroethene	ND		4.3	0.55	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Cyclohexane	ND		4.3	0.60	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Bromodichloromethane	ND		4.3	0.58	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Dichlorodifluoromethane	ND		4.3	0.36	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Ethylbenzene	ND		4.3	0.30	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
1,2-Dibromoethane	ND		4.3	0.55	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Isopropylbenzene	ND		4.3	0.65	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Methyl acetate	ND		22	2.6	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Methyl tert-butyl ether	ND		4.3	0.42	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Methylcyclohexane	ND		4.3	0.66	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Methylene Chloride	ND		4.3	2.0	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
m,p-Xylene	ND		8.6	0.72	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Naphthalene	ND		4.3	0.58	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
n-Butylbenzene	ND		4.3	0.38	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
N-Propylbenzene	ND		4.3	0.35	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
o-Xylene	ND		4.3	0.56	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
sec-Butylbenzene	ND		4.3	0.38	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Tetrachloroethene	ND		4.3	0.58	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Toluene	ND		4.3	0.33	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1

Client Sample ID: MW-4 0.5-2 ft
Date Collected: 02/11/25 10:30
Date Received: 02/11/25 16:00

Lab Sample ID: 480-227296-3
Matrix: Solid
Percent Solids: 90.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		4.3	0.45	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
trans-1,3-Dichloropropene	ND		4.3	1.9	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Trichloroethene	ND		4.3	0.95	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Trichlorofluoromethane	ND		4.3	0.41	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Vinyl chloride	ND		4.3	0.53	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Xylenes, Total	ND		8.6	0.72	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
cis-1,3-Dichloropropene	ND		4.3	0.62	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
Styrene	ND		4.3	0.22	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1
tert-Butylbenzene	ND		4.3	0.45	ug/Kg	☼	02/12/25 14:39	02/13/25 18:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/12/25 14:39*	*02/13/25 18:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*64 - 126*	*02/12/25 14:39*	*02/13/25 18:35*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*02/12/25 14:39*	*02/13/25 18:35*	*1*
Toluene-d8 (Surr)	*91*		*71 - 125*	*02/12/25 14:39*	*02/13/25 18:35*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*	*02/12/25 14:39*	*02/13/25 18:35*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	27	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
bis (2-chloroisopropyl) ether	ND		190	37	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2,4,5-Trichlorophenol	ND		190	50	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2,4,6-Trichlorophenol	ND		190	37	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2,4-Dimethylphenol	ND		190	45	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2,4-Dinitrophenol	ND		1800	860	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2,4-Dinitrotoluene	ND		190	38	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
1,4-Dioxane	ND		110	60	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2-Chlorophenol	ND		360	34	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2-Methylnaphthalene	ND		190	37	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2-Methylphenol	ND		190	22	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2-Nitroaniline	ND		360	27	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
3,3'-Dichlorobenzidine	ND		360	220	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
3-Nitroaniline	ND		360	52	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
4,6-Dinitro-2-methylphenol	ND		360	190	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
4-Bromophenyl phenyl ether	ND	F2	190	26	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
4-Chloro-3-methylphenol	ND		190	46	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
4-Chloroaniline	ND		190	46	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
4-Methylphenol	ND		360	22	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
4-Nitroaniline	ND		360	98	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
4-Nitrophenol	ND		360	130	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Acenaphthene	**92**	**J**	190	27	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Acenaphthylene	**27**	**J**	190	24	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Acetophenone	ND		190	25	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1

Client Sample ID: MW-4 0.5-2 ft
Lab Sample ID: 480-227296-3
Date Collected: 02/11/25 10:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 90.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**250**		190	46	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Atrazine	ND		190	65	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Benzaldehyde	ND		190	150	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Benzo[a]anthracene	**500**		190	19	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Benzo[a]pyrene	**460**		190	27	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Benzo[b]fluoranthene	**570**		190	30	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Benzo[g,h,i]perylene	**310**	**F2**	190	20	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Benzo[k]fluoranthene	**240**		190	24	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Bis(2-chloroethoxy)methane	ND		190	39	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Bis(2-ethylhexyl) phthalate	ND		190	64	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Butyl benzyl phthalate	ND	F1	190	31	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Caprolactam	ND		190	56	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Carbazole	**96**	**J**	190	22	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Chrysene	**520**		190	42	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Dibenz(a,h)anthracene	**110**	**J**	190	33	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Dibenzofuran	**57**	**J**	190	22	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Fluoranthene	**1100**		190	20	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Fluorene	**100**	**J**	190	22	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Hexachlorobenzene	ND		190	25	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Hexachlorobutadiene	ND		190	27	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Hexachlorocyclopentadiene	ND		190	25	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Hexachloroethane	ND		190	24	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Indeno[1,2,3-cd]pyrene	**270**		190	23	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Isophorone	ND		190	39	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Naphthalene	ND		190	24	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Nitrobenzene	ND		190	21	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Pentachlorophenol	ND		360	190	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Phenanthrene	**1000**	**F2**	190	27	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Phenol	ND		190	29	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1
Pyrene	**1100**	**F1 F2**	190	22	ug/Kg	☼	02/13/25 13:37	02/14/25 16:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*9400*	*T J*	*ug/Kg*	☼	*1.80*	*N/A*	*02/13/25 13:37*	*02/14/25 16:23*	*1*
Unknown	*190*	*T J*	*ug/Kg*	☼	*2.40*	*N/A*	*02/13/25 13:37*	*02/14/25 16:23*	*1*
Unknown	*170*	*T J*	*ug/Kg*	☼	*2.92*	*N/A*	*02/13/25 13:37*	*02/14/25 16:23*	*1*
Unknown	*1800*	*T J*	*ug/Kg*	☼	*3.15*	*N/A*	*02/13/25 13:37*	*02/14/25 16:23*	*1*
1H-Indene, 2-phenyl-	*150*	*T J N*	*ug/Kg*	☼	*11.20*	*4505-48-0*	*02/13/25 13:37*	*02/14/25 16:23*	*1*
Unknown	*320*	*T J*	*ug/Kg*	☼	*11.27*	*N/A*	*02/13/25 13:37*	*02/14/25 16:23*	*1*
Unknown	*160*	*T J*	*ug/Kg*	☼	*11.46*	*N/A*	*02/13/25 13:37*	*02/14/25 16:23*	*1*
Pyrene, 1-methyl-	*160*	*T J N*	*ug/Kg*	☼	*12.31*	*2381-21-7*	*02/13/25 13:37*	*02/14/25 16:23*	*1*
Unknown	*160*	*T J*	*ug/Kg*	☼	*12.87*	*N/A*	*02/13/25 13:37*	*02/14/25 16:23*	*1*
Unknown	*200*	*T J*	*ug/Kg*	☼	*13.25*	*N/A*	*02/13/25 13:37*	*02/14/25 16:23*	*1*
Unknown	*160*	*T J*	*ug/Kg*	☼	*13.50*	*N/A*	*02/13/25 13:37*	*02/14/25 16:23*	*1*

Client Sample ID: MW-4 0.5-2 ft
Lab Sample ID: 480-227296-3

Date Collected: 02/11/25 10:30
Matrix: Solid

Date Received: 02/11/25 16:00
Percent Solids: 90.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1,1'-Binaphthalene, 2,2'-dibromo-	180	T J N	ug/Kg	☼	13.98	74866-28-7	02/13/25 13:37	02/14/25 16:23	1
Perylene	270	T J N	ug/Kg	☼	14.11	198-55-0	02/13/25 13:37	02/14/25 16:23	1
Unknown	220	T J	ug/Kg	☼	14.95	N/A	02/13/25 13:37	02/14/25 16:23	1
Unknown	230	T J	ug/Kg	☼	15.11	N/A	02/13/25 13:37	02/14/25 16:23	1
Unknown	310	T J	ug/Kg	☼	15.14	N/A	02/13/25 13:37	02/14/25 16:23	1
3,4:8,9-Dibenzopyrene	150	T J N	ug/Kg	☼	16.44	189-64-0	02/13/25 13:37	02/14/25 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		26 - 143	02/13/25 13:37	02/14/25 16:23	1
2-Fluorobiphenyl	90		50 - 121	02/13/25 13:37	02/14/25 16:23	1
2-Fluorophenol	76		36 - 120	02/13/25 13:37	02/14/25 16:23	1
Nitrobenzene-d5	82		40 - 121	02/13/25 13:37	02/14/25 16:23	1
p-Terphenyl-d14	103		46 - 143	02/13/25 13:37	02/14/25 16:23	1
Phenol-d5	76		41 - 120	02/13/25 13:37	02/14/25 16:23	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**2.9**	**J**	9.1	1.8	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
4,4'-DDE	ND		9.1	1.9	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
4,4'-DDT	**4.4**	**J**	9.1	2.1	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Aldrin	ND		9.1	2.2	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
alpha-BHC	ND		9.1	1.6	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
cis-Chlordane	ND		9.1	4.5	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
beta-BHC	ND		9.1	1.6	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
delta-BHC	ND		9.1	1.7	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Dieldrin	ND		9.1	2.2	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Endosulfan I	ND		9.1	1.7	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Endosulfan II	ND		9.1	1.6	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Endosulfan sulfate	ND		9.1	1.7	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Endrin	ND		9.1	1.8	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Endrin aldehyde	ND		9.1	2.3	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Endrin ketone	ND		9.1	2.2	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
gamma-BHC (Lindane)	ND		9.1	1.7	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
trans-Chlordane	ND		9.1	2.9	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Heptachlor	ND		9.1	2.0	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Heptachlor epoxide	ND		9.1	2.3	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Methoxychlor	**1.9**	**J**	9.1	1.9	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5
Toxaphene	ND		91	53	ug/Kg	☼	02/13/25 06:37	02/14/25 11:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	186	S1+	45 - 120	02/13/25 06:37	02/14/25 11:03	5
DCB Decachlorobiphenyl	406	S1+	45 - 120	02/13/25 06:37	02/14/25 11:03	5
Tetrachloro-m-xylene	65		30 - 124	02/13/25 06:37	02/14/25 11:03	5
Tetrachloro-m-xylene	76		30 - 124	02/13/25 06:37	02/14/25 11:03	5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.039	mg/Kg	☼	02/13/25 06:45	02/14/25 17:58	1
PCB-1221	ND		0.20	0.039	mg/Kg	☼	02/13/25 06:45	02/14/25 17:58	1
PCB-1232	ND		0.20	0.039	mg/Kg	☼	02/13/25 06:45	02/14/25 17:58	1

Client Sample ID: MW-4 0.5-2 ft
Lab Sample ID: 480-227296-3

Date Collected: 02/11/25 10:30
Matrix: Solid

Date Received: 02/11/25 16:00
Percent Solids: 90.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.20	0.039	mg/Kg	☼	02/13/25 06:45	02/14/25 17:58	1
PCB-1248	ND		0.20	0.039	mg/Kg	☼	02/13/25 06:45	02/14/25 17:58	1
PCB-1254	ND		0.20	0.094	mg/Kg	☼	02/13/25 06:45	02/14/25 17:58	1
PCB-1260	ND		0.20	0.094	mg/Kg	☼	02/13/25 06:45	02/14/25 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*60 - 154*	*02/13/25 06:45*	*02/14/25 17:58*	*1*
Tetrachloro-m-xylene	*110*		*60 - 154*	*02/13/25 06:45*	*02/14/25 17:58*	*1*
DCB Decachlorobiphenyl	*130*		*65 - 174*	*02/13/25 06:45*	*02/14/25 17:58*	*1*
DCB Decachlorobiphenyl	*115*		*65 - 174*	*02/13/25 06:45*	*02/14/25 17:58*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.8	ug/Kg	☼	02/13/25 06:44	02/19/25 19:28	1
Silvex (2,4,5-TP)	ND		18	6.6	ug/Kg	☼	02/13/25 06:44	02/19/25 19:28	1
2,4-D	ND		18	12	ug/Kg	☼	02/13/25 06:44	02/19/25 19:28	1
Dichlorprop	ND		18	9.1	ug/Kg	☼	02/13/25 06:44	02/19/25 19:28	1
Pentachlorophenol	ND		18	5.9	ug/Kg	☼	02/13/25 06:44	02/19/25 19:28	1
Picloram	ND		18	7.9	ug/Kg	☼	02/13/25 06:44	02/19/25 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*02/13/25 06:44*	*02/19/25 19:28*	*1*
2,4-Dichlorophenylacetic acid	*67*		*28 - 129*	*02/13/25 06:44*	*02/19/25 19:28*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluoropentanoic acid (PFPeA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorohexanoic acid (PFHxA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluoroheptanoic acid (PFHpA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorooctanoic acid (PFOA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorononanoic acid (PFNA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorodecanoic acid (PFDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorododecanoic acid (PFDoA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorooctanesulfonic acid (PFOS)	**0.076**	**J**	0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorononanesulfonic acid (PFNS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1

Client Sample ID: MW-4 0.5-2 ft
Lab Sample ID: 480-227296-3
Date Collected: 02/11/25 10:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 90.2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.4	0.35	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.4	0.35	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.69	0.17	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.5	0.87	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.5	0.87	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/20/25 13:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C5 PFPeA	*99.3*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C5 PFHxA	*95.5*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C4 PFHpA	*97.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C8 PFOA	*91.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C9 PFNA	*90.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C6 PFDA	*91.9*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C7 PFUnA	*89.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C2 PFTeDA	*79.8*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C3 PFBS	*88.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C3 PFHxS	*87.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C8 PFOS	*96.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
13C8 PFOSA	*97.1*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
d3-NMeFOSAA	*89.1*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*
d5-NEtFOSAA	*89.1*		*20 - 150*	*02/17/25 08:26*	*02/20/25 13:10*	*1*

Client Sample ID: MW-4 0.5-2 ft
Lab Sample ID: 480-227296-3

Date Collected: 02/11/25 10:30
Matrix: Solid

Date Received: 02/11/25 16:00
Percent Solids: 90.2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	86.8		20 - 150	02/17/25 08:26	02/20/25 13:10	1
M2-6:2 FTS	85.6		20 - 150	02/17/25 08:26	02/20/25 13:10	1
M2-8:2 FTS	85.7		20 - 150	02/17/25 08:26	02/20/25 13:10	1
13C3 HFPO-DA	104		20 - 150	02/17/25 08:26	02/20/25 13:10	1
d7-N-MeFOSE-M	62.9		20 - 150	02/17/25 08:26	02/20/25 13:10	1
d9-N-EtFOSE-M	52.3		20 - 150	02/17/25 08:26	02/20/25 13:10	1
d5-NEtPFOSA	79.5		20 - 150	02/17/25 08:26	02/20/25 13:10	1
D3-NMeFOSA	84.3		20 - 150	02/17/25 08:26	02/20/25 13:10	1
13C2-PFDoDA	85.0		20 - 150	02/17/25 08:26	02/20/25 13:10	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6400**		10.5	9.0	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Antimony	**3.3**	**J**	15.7	0.55	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Arsenic	**5.6**		2.1	0.92	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Barium	**101**		0.52	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Beryllium	**0.33**		0.21	0.042	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Cadmium	**0.32**		0.21	0.073	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Calcium	**28000**		52.3	28.3	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Chromium	**13.4**		0.52	0.38	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Cobalt	**3.8**		0.52	0.10	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Copper	**50.9**		1.0	0.60	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Iron	**11700**		10.5	8.9	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Lead	**464**		1.0	0.48	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Magnesium	**6260**		20.9	8.9	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Manganese	**192**		1.0	0.29	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Nickel	**10.6**		5.2	0.26	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Potassium	**1350**		31.4	25.4	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Selenium	**1.0**	**J**	4.2	0.84	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Silver	ND		0.63	0.21	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Sodium	**179**		147	64.2	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Thallium	ND		6.3	0.80	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Vanadium	**13.9**	***+ *-**	0.52	0.14	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1
Zinc	**175**		2.1	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.3**		0.022	0.0050	mg/Kg	☼	02/14/25 10:25	02/14/25 15:03	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: MW-4 5-8 ft
Lab Sample ID: 480-227296-4
Date Collected: 02/11/25 10:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 79.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	31	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2,4-Dimethylphenol	ND		210	51	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2,4-Dinitrophenol	ND		2100	980	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2,4-Dinitrotoluene	ND		210	44	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2-Chloronaphthalene	ND		210	35	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
1,4-Dioxane	ND		120	69	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2-Chlorophenol	ND		410	39	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2-Methylphenol	ND		210	25	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
2-Nitrophenol	ND		210	60	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
3-Nitroaniline	ND		410	59	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
4-Chloroaniline	ND		210	52	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
4-Methylphenol	ND		410	25	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
4-Nitroaniline	ND		410	110	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
4-Nitrophenol	ND		410	150	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Acenaphthene	ND		210	31	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Acenaphthylene	ND		210	27	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Acetophenone	ND		210	29	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Anthracene	ND		210	52	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Atrazine	ND		210	74	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Benzaldehyde	ND		210	170	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Benzo[a]pyrene	**270**		210	31	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Benzo[b]fluoranthene	ND		210	34	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Bis(2-chloroethoxy)methane	ND		210	45	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Bis(2-ethylhexyl) phthalate	ND		210	72	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Caprolactam	ND		210	64	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Carbazole	ND		210	25	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Chrysene	ND		210	47	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Dibenzofuran	ND		210	25	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1

Client Sample ID: MW-4 5-8 ft
Lab Sample ID: 480-227296-4
Date Collected: 02/11/25 10:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 79.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		210	25	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Fluoranthene	ND		210	22	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Fluorene	ND		210	25	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Hexachlorobenzene	ND		210	29	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Hexachlorocyclopentadiene	ND		210	29	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Hexachloroethane	ND		210	27	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Isophorone	ND		210	45	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Naphthalene	ND		210	27	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Nitrobenzene	ND		210	24	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Pentachlorophenol	ND		410	210	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Phenanthrene	ND		210	31	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Phenol	ND		210	32	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1
Pyrene	ND		210	25	ug/Kg	☼	02/18/25 14:01	02/19/25 15:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*17000*	*T J*	*ug/Kg*	☼	*1.81*	*N/A*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
Unknown	*2700*	*T J*	*ug/Kg*	☼	*3.14*	*N/A*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
Unknown	*240*	*T J*	*ug/Kg*	☼	*9.31*	*N/A*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
Unknown	*400*	*T J*	*ug/Kg*	☼	*10.84*	*N/A*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
Unknown	*240*	*T J*	*ug/Kg*	☼	*11.90*	*N/A*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
Cyclohexadecane	*220*	*T J N*	*ug/Kg*	☼	*12.97*	*295-65-8*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
Unknown	*240*	*T J*	*ug/Kg*	☼	*13.25*	*N/A*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
1-Heptadecene	*500*	*T J N*	*ug/Kg*	☼	*13.50*	*6765-39-5*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
Unknown	*170*	*T J*	*ug/Kg*	☼	*15.36*	*N/A*	*02/18/25 14:01*	*02/19/25 15:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*26 - 143*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
2-Fluorobiphenyl	*84*		*50 - 121*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
2-Fluorophenol	*84*		*36 - 120*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
Nitrobenzene-d5	*83*		*40 - 121*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
p-Terphenyl-d14	*91*		*46 - 143*	*02/18/25 14:01*	*02/19/25 15:59*	*1*
Phenol-d5	*85*		*41 - 120*	*02/18/25 14:01*	*02/19/25 15:59*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.40	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
4,4'-DDE	ND		2.1	0.43	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
4,4'-DDT	ND		2.1	0.48	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
Aldrin	ND		2.1	0.50	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
alpha-BHC	ND		2.1	0.37	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
cis-Chlordane	ND		2.1	1.0	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
beta-BHC	ND		2.1	0.37	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
delta-BHC	ND		2.1	0.38	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
Dieldrin	ND		2.1	0.49	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
Endosulfan I	ND		2.1	0.39	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
Endosulfan II	ND		2.1	0.37	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1

Client Sample ID: MW-4 5-8 ft
Lab Sample ID: 480-227296-4

Date Collected: 02/11/25 10:45
Matrix: Solid

Date Received: 02/11/25 16:00
Percent Solids: 79.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.1	0.38	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
Endrin	ND		2.1	0.41	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
Endrin aldehyde	ND		2.1	0.52	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
Endrin ketone	ND		2.1	0.50	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
gamma-BHC (Lindane)	ND		2.1	0.38	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
trans-Chlordane	ND		2.1	0.65	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
Heptachlor	ND		2.1	0.44	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
Heptachlor epoxide	ND		2.1	0.53	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
Methoxychlor	ND		2.1	0.42	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1
Toxaphene	ND		21	12	ug/Kg	☼	02/13/25 06:37	02/14/25 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*45 - 120*	*02/13/25 06:37*	*02/14/25 11:22*	*1*
DCB Decachlorobiphenyl	*103*		*45 - 120*	*02/13/25 06:37*	*02/14/25 11:22*	*1*
Tetrachloro-m-xylene	*85*		*30 - 124*	*02/13/25 06:37*	*02/14/25 11:22*	*1*
Tetrachloro-m-xylene	*81*		*30 - 124*	*02/13/25 06:37*	*02/14/25 11:22*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4380**		12.9	11.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Antimony	ND		19.3	0.68	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Arsenic	ND		2.6	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Barium	**17.3**		0.64	0.18	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Beryllium	**0.17**	**J**	0.26	0.051	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Cadmium	**0.13**	**J**	0.26	0.090	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Calcium	**5100**		64.3	34.7	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Chromium	**5.9**		0.64	0.46	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Cobalt	**1.5**		0.64	0.13	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Copper	**1.9**		1.3	0.73	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Iron	**3780**		12.9	10.9	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Lead	**5.8**		1.3	0.59	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Magnesium	**1760**		25.7	10.9	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Manganese	**41.2**		1.3	0.36	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Nickel	**4.9**	**J**	6.4	0.32	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Potassium	**747**		38.6	31.2	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Selenium	**1.0**	**J**	5.1	1.0	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Silver	ND		0.77	0.26	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Sodium	**99.8**	**J**	180	78.8	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Thallium	ND		7.7	0.98	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Vanadium	**9.0**	***+ *-**	0.64	0.17	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1
Zinc	**30.4**		2.6	1.3	mg/Kg	☼	02/14/25 12:34	02/17/25 16:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.026	0.0059	mg/Kg	☼	02/14/25 10:25	02/14/25 15:05	1

Client: Roux Environmental Engineering and Geology DPC
Project/Site: North Aud Block

Job ID: 480-227296-1

Client Sample ID: MW-4 12-15 ft
Date Collected: 02/11/25 11:00
Date Received: 02/11/25 16:00

Lab Sample ID: 480-227296-5
Matrix: Solid
Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
1,4-Dioxane	ND		120	64	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2-Chlorophenol	ND		380	36	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2-Methylphenol	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
3-Nitroaniline	ND		380	55	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
4-Methylphenol	ND		380	23	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Acenaphthene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Acenaphthylene	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Acetophenone	ND		200	27	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Anthracene	ND		200	49	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Atrazine	ND		200	69	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Caprolactam	ND		200	59	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Carbazole	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Chrysene	ND		200	44	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Dibenzofuran	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1

Client: Roux Environmental Engineering and Geology DPC
Project/Site: North Aud Block

Job ID: 480-227296-1

Client Sample ID: MW-4 12-15 ft
Date Collected: 02/11/25 11:00
Date Received: 02/11/25 16:00

Lab Sample ID: 480-227296-5
Matrix: Solid
Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Fluoranthene	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Fluorene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Hexachloroethane	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Isophorone	ND		200	42	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Naphthalene	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Nitrobenzene	ND		200	22	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Phenanthrene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Phenol	ND		200	30	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1
Pyrene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 16:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14000*	*T J*	*ug/Kg*	☼	*1.81*	*N/A*	*02/18/25 14:01*	*02/19/25 16:23*	*1*
Unknown	*2400*	*T J*	*ug/Kg*	☼	*3.14*	*N/A*	*02/18/25 14:01*	*02/19/25 16:23*	*1*
Unknown	*210*	*T J*	*ug/Kg*	☼	*13.25*	*N/A*	*02/18/25 14:01*	*02/19/25 16:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*26 - 143*	*02/18/25 14:01*	*02/19/25 16:23*	*1*
2-Fluorobiphenyl	*90*		*50 - 121*	*02/18/25 14:01*	*02/19/25 16:23*	*1*
2-Fluorophenol	*88*		*36 - 120*	*02/18/25 14:01*	*02/19/25 16:23*	*1*
Nitrobenzene-d5	*88*		*40 - 121*	*02/18/25 14:01*	*02/19/25 16:23*	*1*
p-Terphenyl-d14	*97*		*46 - 143*	*02/18/25 14:01*	*02/19/25 16:23*	*1*
Phenol-d5	*88*		*41 - 120*	*02/18/25 14:01*	*02/19/25 16:23*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.38	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
4,4'-DDE	ND		2.0	0.41	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
Aldrin	ND		2.0	0.48	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
alpha-BHC	ND		2.0	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
cis-Chlordane	ND		2.0	0.97	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
beta-BHC	ND		2.0	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
delta-BHC	ND		2.0	0.36	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
Dieldrin	ND		2.0	0.47	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
Endosulfan I	ND		2.0	0.37	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
Endosulfan II	ND		2.0	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
Endosulfan sulfate	ND		2.0	0.36	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
Endrin	ND		2.0	0.39	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
Endrin aldehyde	ND		2.0	0.50	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
Endrin ketone	ND		2.0	0.48	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
trans-Chlordane	ND		2.0	0.62	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1

Client Sample ID: MW-4 12-15 ft
Lab Sample ID: 480-227296-5

Date Collected: 02/11/25 11:00
Matrix: Solid

Date Received: 02/11/25 16:00
Percent Solids: 85.3

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.0	0.42	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
Heptachlor epoxide	ND		2.0	0.50	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1
Toxaphene	ND		20	11	ug/Kg	☼	02/13/25 06:37	02/14/25 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*45 - 120*	*02/13/25 06:37*	*02/14/25 11:42*	*1*
DCB Decachlorobiphenyl	*108*		*45 - 120*	*02/13/25 06:37*	*02/14/25 11:42*	*1*
Tetrachloro-m-xylene	*87*		*30 - 124*	*02/13/25 06:37*	*02/14/25 11:42*	*1*
Tetrachloro-m-xylene	*84*		*30 - 124*	*02/13/25 06:37*	*02/14/25 11:42*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5700**		12.3	10.6	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Antimony	ND		18.4	0.65	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Arsenic	ND		2.5	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Barium	**16.1**		0.61	0.17	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Beryllium	**0.25**		0.25	0.049	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Cadmium	**0.20**	**J**	0.25	0.086	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Calcium	**82600**		61.5	33.2	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Chromium	**8.0**		0.61	0.44	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Cobalt	**2.5**		0.61	0.12	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Copper	**8.9**		1.2	0.70	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Iron	**6330**		12.3	10.4	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Lead	**7.6**		1.2	0.57	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Magnesium	**55300**		123	52.1	mg/Kg	☼	02/14/25 12:34	02/19/25 15:34	5
Manganese	**182**		1.2	0.34	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Nickel	**7.3**		6.1	0.31	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Potassium	**2120**		36.9	29.8	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Selenium	ND		4.9	0.98	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Silver	ND		0.74	0.25	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Sodium	**244**		172	75.4	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Thallium	ND		7.4	0.93	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Vanadium	**11.0**	***+ *-**	0.61	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1
Zinc	**36.6**		2.5	1.3	mg/Kg	☼	02/14/25 12:34	02/17/25 16:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.024	0.0054	mg/Kg	☼	02/14/25 10:25	02/14/25 15:06	1

Client Sample ID: SS-7
Date Collected: 02/11/25 12:00
Date Received: 02/11/25 16:00

Lab Sample ID: 480-227296-6
Matrix: Solid
Percent Solids: 89.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		3800	550	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
bis (2-chloroisopropyl) ether	ND		3800	750	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2,4,5-Trichlorophenol	ND		3800	1000	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2,4,6-Trichlorophenol	ND		3800	750	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2,4-Dichlorophenol	ND		3800	400	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2,4-Dimethylphenol	ND		3800	910	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2,4-Dinitrophenol	ND		37000	17000	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2,4-Dinitrotoluene	ND		3800	770	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2,6-Dinitrotoluene	ND		3800	440	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2-Chloronaphthalene	ND		3800	620	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
1,4-Dioxane	ND		2200	1200	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2-Chlorophenol	ND		7300	690	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2-Methylnaphthalene	**1200**	**J**	3800	750	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2-Methylphenol	ND		3800	440	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2-Nitroaniline	ND		7300	550	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
2-Nitrophenol	ND		3800	1100	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
3,3'-Dichlorobenzidine	ND		7300	4400	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
3-Nitroaniline	ND		7300	1000	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
4,6-Dinitro-2-methylphenol	ND		7300	3800	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
4-Bromophenyl phenyl ether	ND		3800	530	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
4-Chloro-3-methylphenol	ND		3800	930	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
4-Chloroaniline	ND		3800	930	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
4-Chlorophenyl phenyl ether	ND		3800	460	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
4-Methylphenol	ND		7300	440	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
4-Nitroaniline	ND		7300	2000	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
4-Nitrophenol	ND		7300	2600	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Acenaphthene	**1200**	**J**	3800	550	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Acenaphthylene	ND		3800	490	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Acetophenone	ND		3800	510	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Anthracene	**3900**		3800	930	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Atrazine	ND		3800	1300	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Benzaldehyde	ND		3800	3000	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Benzo[a]anthracene	**4800**		3800	380	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Benzo[a]pyrene	**3900**		3800	550	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Benzo[b]fluoranthene	**5100**		3800	600	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Benzo[g,h,i]perylene	**1900**	**J**	3800	400	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Benzo[k]fluoranthene	**2000**	**J**	3800	490	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Bis(2-chloroethoxy)methane	ND		3800	800	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Bis(2-chloroethyl)ether	ND		3800	490	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Bis(2-ethylhexyl) phthalate	ND		3800	1300	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Butyl benzyl phthalate	ND		3800	620	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Caprolactam	ND		3800	1100	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Carbazole	**1000**	**J**	3800	440	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Chrysene	**4200**		3800	840	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Di-n-butyl phthalate	ND		3800	640	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Di-n-octyl phthalate	ND		3800	440	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Dibenz(a,h)anthracene	**700**	**J**	3800	660	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Dibenzofuran	**1900**	**J**	3800	440	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Diethyl phthalate	ND		3800	490	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20

Client Sample ID: SS-7
Date Collected: 02/11/25 12:00
Date Received: 02/11/25 16:00

Lab Sample ID: 480-227296-6
Matrix: Solid
Percent Solids: 89.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		3800	440	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Fluoranthene	**12000**		3800	400	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Fluorene	**3500**	**J**	3800	440	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Hexachlorobenzene	ND		3800	510	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Hexachlorobutadiene	ND		3800	550	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Hexachlorocyclopentadiene	ND		3800	510	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Hexachloroethane	ND		3800	490	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Indeno[1,2,3-cd]pyrene	**1800**	**J**	3800	460	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Isophorone	ND		3800	800	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
N-Nitrosodi-n-propylamine	ND		3800	640	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
N-Nitrosodiphenylamine	ND		3800	3100	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Naphthalene	**1400**	**J**	3800	490	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Nitrobenzene	ND		3800	420	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Pentachlorophenol	ND		7300	3800	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Phenanthrene	**14000**		3800	550	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Phenol	ND		3800	580	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20
Pyrene	**7800**		3800	440	ug/Kg	☼	02/18/25 14:01	02/19/25 16:48	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3800*	*T J*	*ug/Kg*	☼	*11.27*	*N/A*	*02/18/25 14:01*	*02/19/25 16:48*	*20*
Unknown	*3500*	*T J*	*ug/Kg*	☼	*13.25*	*N/A*	*02/18/25 14:01*	*02/19/25 16:48*	*20*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*26 - 143*	*02/18/25 14:01*	*02/19/25 16:48*	*20*
2-Fluorobiphenyl	*79*		*50 - 121*	*02/18/25 14:01*	*02/19/25 16:48*	*20*
2-Fluorophenol	*71*		*36 - 120*	*02/18/25 14:01*	*02/19/25 16:48*	*20*
Nitrobenzene-d5	*75*		*40 - 121*	*02/18/25 14:01*	*02/19/25 16:48*	*20*
p-Terphenyl-d14	*74*		*46 - 143*	*02/18/25 14:01*	*02/19/25 16:48*	*20*
Phenol-d5	*81*		*41 - 120*	*02/18/25 14:01*	*02/19/25 16:48*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		18	3.5	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
4,4'-DDE	ND		18	3.8	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
4,4'-DDT	ND		18	4.2	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
Aldrin	ND		18	4.5	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
alpha-BHC	ND		18	3.3	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
cis-Chlordane	ND		18	9.0	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
beta-BHC	ND		18	3.3	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
delta-BHC	ND		18	3.4	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
Dieldrin	ND		18	4.3	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
Endosulfan I	ND		18	3.5	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
Endosulfan II	ND		18	3.3	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
Endosulfan sulfate	ND		18	3.4	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
Endrin	ND		18	3.6	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
Endrin aldehyde	ND		18	4.6	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
Endrin ketone	ND		18	4.5	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
gamma-BHC (Lindane)	ND		18	3.3	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
trans-Chlordane	ND		18	5.8	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
Heptachlor	ND		18	3.9	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10

Client Sample ID: SS-7
Lab Sample ID: 480-227296-6
Date Collected: 02/11/25 12:00
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 89.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		18	4.7	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
Methoxychlor	ND		18	3.7	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10
Toxaphene	ND		180	110	ug/Kg	☼	02/13/25 06:37	02/14/25 12:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*45 - 120*	*02/13/25 06:37*	*02/14/25 12:01*	*10*
DCB Decachlorobiphenyl	*284*	*S1+*	*45 - 120*	*02/13/25 06:37*	*02/14/25 12:01*	*10*
Tetrachloro-m-xylene	*92*		*30 - 124*	*02/13/25 06:37*	*02/14/25 12:01*	*10*
Tetrachloro-m-xylene	*88*		*30 - 124*	*02/13/25 06:37*	*02/14/25 12:01*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7350**		11.2	9.6	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Antimony	ND		16.8	0.59	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Arsenic	**4.8**		2.2	0.98	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Barium	**157**		0.56	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Beryllium	**0.35**		0.22	0.045	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Cadmium	**0.37**		0.22	0.078	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Calcium	**71700**		56.0	30.2	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Chromium	**12.0**		0.56	0.40	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Cobalt	**4.1**		0.56	0.11	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Copper	**27.9**		1.1	0.64	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Iron	**11500**		11.2	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Lead	**309**		1.1	0.51	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Magnesium	**13200**		22.4	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Manganese	**244**		1.1	0.31	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Nickel	**12.1**		5.6	0.28	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Potassium	**1990**		33.6	27.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Selenium	**1.0**	**J**	4.5	0.90	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Silver	ND		0.67	0.22	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Sodium	**306**		157	68.6	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Thallium	ND		6.7	0.85	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Vanadium	**18.0**	***+ *-**	0.56	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1
Zinc	**178**		2.2	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**		0.021	0.0049	mg/Kg	☼	02/14/25 10:25	02/14/25 15:07	1

Client: Roux Environmental Engineering and Geology DPC
Project/Site: North Aud Block

Job ID: 480-227296-1

Client Sample ID: TP-30 2-3 ft
Date Collected: 02/11/25 13:30
Date Received: 02/11/25 16:00

Lab Sample ID: 480-227296-7
Matrix: Solid
Percent Solids: 86.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
1,4-Dioxane	ND		120	63	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2-Chlorophenol	ND		380	36	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2-Methylphenol	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
4-Chloroaniline	ND		200	48	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
4-Methylphenol	ND		380	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Acenaphthene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Acenaphthylene	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Acetophenone	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Anthracene	ND		200	48	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Atrazine	ND		200	68	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Bis(2-chloroethoxy)methane	ND		200	41	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Caprolactam	ND		200	59	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Carbazole	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Chrysene	ND		200	44	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Dibenzofuran	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1

Client Sample ID: TP-30 2-3 ft
Lab Sample ID: 480-227296-7
Date Collected: 02/11/25 13:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 86.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Fluoranthene	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Fluorene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Hexachlorobenzene	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Hexachlorocyclopentadiene	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Hexachloroethane	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Isophorone	ND		200	41	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Naphthalene	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Nitrobenzene	ND		200	22	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Phenanthrene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Phenol	ND		200	30	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1
Pyrene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2500*	*T J*	*ug/Kg*	☼	*3.14*	*N/A*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Unknown	*310*	*T J*	*ug/Kg*	☼	*11.40*	*N/A*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Cyclic octaatomic sulfur	*520*	*T J N*	*ug/Kg*	☼	*11.86*	*10544-50-0*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
3-Eicosene, (E)-	*430*	*T J N*	*ug/Kg*	☼	*12.97*	*74685-33-9*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
1-Docosene	*790*	*T J N*	*ug/Kg*	☼	*13.50*	*1599-67-3*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
1-Eicosanol	*1600*	*T J N*	*ug/Kg*	☼	*14.01*	*629-96-9*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Hentriacontane	*310*	*T J N*	*ug/Kg*	☼	*14.47*	*630-04-6*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
1-Docosanol, formate	*290*	*T J N*	*ug/Kg*	☼	*14.51*	*15155-62-1*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Unknown	*420*	*T J*	*ug/Kg*	☼	*15.02*	*N/A*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
1-Hexacosene	*280*	*T J N*	*ug/Kg*	☼	*15.07*	*18835-33-1*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Unknown	*290*	*T J*	*ug/Kg*	☼	*15.10*	*N/A*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Unknown	*660*	*T J*	*ug/Kg*	☼	*15.20*	*N/A*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
.gamma.-Sitosterol	*690*	*T J N*	*ug/Kg*	☼	*15.31*	*83-47-6*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Cholestane, 3-ethoxy-, (3.beta.,5.alpha.)-	*690*	*T J N*	*ug/Kg*	☼	*15.36*	*2089-02-3*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Unknown	*290*	*T J*	*ug/Kg*	☼	*15.43*	*N/A*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Unknown	*470*	*T J*	*ug/Kg*	☼	*15.60*	*N/A*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Unknown	*440*	*T J*	*ug/Kg*	☼	*15.70*	*N/A*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Unknown	*530*	*T J*	*ug/Kg*	☼	*15.82*	*N/A*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Unknown	*330*	*T J*	*ug/Kg*	☼	*16.23*	*N/A*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Friedelin	*2600*	*T J N*	*ug/Kg*	☼	*16.32*	*559-74-0*	*02/18/25 14:01*	*02/19/25 17:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*26 - 143*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
2-Fluorobiphenyl	*87*		*50 - 121*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
2-Fluorophenol	*85*		*36 - 120*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Nitrobenzene-d5	*87*		*40 - 121*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
p-Terphenyl-d14	*94*		*46 - 143*	*02/18/25 14:01*	*02/19/25 17:12*	*1*
Phenol-d5	*90*		*41 - 120*	*02/18/25 14:01*	*02/19/25 17:12*	*1*

Client Sample ID: TP-30 2-3 ft
Lab Sample ID: 480-227296-7

Date Collected: 02/11/25 13:30
Matrix: Solid

Date Received: 02/11/25 16:00
Percent Solids: 86.1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
4,4'-DDT	ND		1.9	0.44	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Aldrin	ND		1.9	0.46	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
alpha-BHC	ND		1.9	0.34	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
cis-Chlordane	ND		1.9	0.94	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
delta-BHC	ND		1.9	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Dieldrin	ND		1.9	0.45	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Endosulfan I	ND		1.9	0.36	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Endosulfan sulfate	**1.0**	**J**	1.9	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Endrin	ND		1.9	0.37	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Endrin aldehyde	ND		1.9	0.48	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Endrin ketone	ND		1.9	0.46	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
trans-Chlordane	ND		1.9	0.60	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Heptachlor	ND		1.9	0.41	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Methoxychlor	ND		1.9	0.38	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1
Toxaphene	ND		19	11	ug/Kg	☼	02/13/25 06:37	02/14/25 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*45 - 120*	*02/13/25 06:37*	*02/14/25 12:21*	*1*
DCB Decachlorobiphenyl	*108*		*45 - 120*	*02/13/25 06:37*	*02/14/25 12:21*	*1*
Tetrachloro-m-xylene	*71*		*30 - 124*	*02/13/25 06:37*	*02/14/25 12:21*	*1*
Tetrachloro-m-xylene	*80*		*30 - 124*	*02/13/25 06:37*	*02/14/25 12:21*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9740**		11.2	9.6	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Antimony	ND		16.7	0.59	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Arsenic	**1.3**	**J**	2.2	0.98	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Barium	**49.4**		0.56	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Beryllium	**0.37**		0.22	0.045	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Cadmium	**0.24**		0.22	0.078	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Calcium	**11600**		55.8	30.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Chromium	**10.9**		0.56	0.40	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Cobalt	**4.2**		0.56	0.11	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Copper	**7.6**		1.1	0.64	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Iron	**8570**		11.2	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Lead	**13.7**		1.1	0.51	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Magnesium	**6600**		22.3	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Manganese	**114**		1.1	0.31	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Nickel	**10.2**		5.6	0.28	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Potassium	**1900**		33.5	27.0	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Selenium	ND		4.5	0.89	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Silver	ND		0.67	0.22	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Sodium	**166**		156	68.4	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Thallium	ND		6.7	0.85	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1

Client Sample ID: TP-30 2-3 ft
Lab Sample ID: 480-227296-7
Date Collected: 02/11/25 13:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 86.1

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	19.5	*+ *-	0.56	0.14	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1
Zinc	67.4		2.2	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.024	0.0055	mg/Kg	☼	02/14/25 10:25	02/14/25 15:09	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: MW-1 1.5-4.25 ft
Lab Sample ID: 480-227296-8
Date Collected: 02/11/25 14:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 77.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		220	32	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
bis (2-chloroisopropyl) ether	ND		220	44	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2,4,5-Trichlorophenol	ND		220	59	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2,4,6-Trichlorophenol	ND		220	44	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2,4-Dichlorophenol	ND		220	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2,4-Dimethylphenol	ND		220	53	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2,4-Dinitrophenol	ND		2100	1000	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2,4-Dinitrotoluene	ND		220	45	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2,6-Dinitrotoluene	ND		220	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2-Chloronaphthalene	ND		220	36	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
1,4-Dioxane	ND		130	71	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2-Chlorophenol	ND		420	40	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2-Methylnaphthalene	ND		220	44	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2-Methylphenol	ND		220	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2-Nitroaniline	ND		420	32	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
2-Nitrophenol	ND		220	62	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
3,3'-Dichlorobenzidine	ND		420	260	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
3-Nitroaniline	ND		420	60	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
4,6-Dinitro-2-methylphenol	ND		420	220	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
4-Bromophenyl phenyl ether	ND		220	31	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
4-Chloro-3-methylphenol	ND		220	54	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
4-Chloroaniline	ND		220	54	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
4-Chlorophenyl phenyl ether	ND		220	27	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
4-Methylphenol	ND		420	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
4-Nitroaniline	ND		420	110	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
4-Nitrophenol	ND		420	150	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Acenaphthene	ND		220	32	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Acenaphthylene	ND		220	28	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Acetophenone	ND		220	30	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Anthracene	ND		220	54	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Atrazine	ND		220	76	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Benzaldehyde	ND		220	170	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Benzo[a]anthracene	ND		220	22	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Benzo[a]pyrene	ND		220	32	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Benzo[b]fluoranthene	ND		220	35	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Benzo[g,h,i]perylene	ND		220	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Benzo[k]fluoranthene	ND		220	28	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Bis(2-chloroethoxy)methane	ND		220	46	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Bis(2-chloroethyl)ether	ND		220	28	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Bis(2-ethylhexyl) phthalate	ND		220	74	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Butyl benzyl phthalate	ND		220	36	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Caprolactam	ND		220	65	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Carbazole	ND		220	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Chrysene	ND		220	49	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Di-n-butyl phthalate	ND		220	37	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Di-n-octyl phthalate	ND		220	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Dibenz(a,h)anthracene	ND		220	39	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Dibenzofuran	ND		220	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Diethyl phthalate	ND		220	28	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1

Client Sample ID: MW-1 1.5-4.25 ft
Lab Sample ID: 480-227296-8
Date Collected: 02/11/25 14:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 77.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		220	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Fluoranthene	ND		220	23	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Fluorene	ND		220	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Hexachlorobenzene	ND		220	30	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Hexachlorobutadiene	ND		220	32	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Hexachlorocyclopentadiene	ND		220	30	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Hexachloroethane	ND		220	28	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Indeno[1,2,3-cd]pyrene	ND		220	27	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Isophorone	ND		220	46	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
N-Nitrosodi-n-propylamine	ND		220	37	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
N-Nitrosodiphenylamine	ND		220	180	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Naphthalene	ND		220	28	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Nitrobenzene	ND		220	24	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Pentachlorophenol	ND		420	220	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Phenanthrene	ND		220	32	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Phenol	ND		220	33	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1
Pyrene	ND		220	26	ug/Kg	☼	02/18/25 14:01	02/19/25 17:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2200*	*T J*	*ug/Kg*	☼	*3.14*	*N/A*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Unknown	*190*	*T J*	*ug/Kg*	☼	*9.30*	*N/A*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Cyclic octaatomic sulfur	*960*	*T J N*	*ug/Kg*	☼	*11.86*	*10544-50-0*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
5-Eicosene, (E)-	*250*	*T J N*	*ug/Kg*	☼	*12.97*	*74685-30-6*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Unknown	*240*	*T J*	*ug/Kg*	☼	*13.25*	*N/A*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
1-Docosene	*570*	*T J N*	*ug/Kg*	☼	*13.50*	*1599-67-3*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Cyclotetracosane	*700*	*T J N*	*ug/Kg*	☼	*14.01*	*297-03-0*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Cholesta-3,5-diene	*310*	*T J N*	*ug/Kg*	☼	*14.13*	*747-90-0*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
2,7-Dimethyl-3,5-dimethylthio-2H-1,2,4-triazepine	*920*	*T J N*	*ug/Kg*	☼	*14.61*	*1000147-77-7*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Unknown	*760*	*T J*	*ug/Kg*	☼	*14.72*	*N/A*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Unknown	*180*	*T J*	*ug/Kg*	☼	*15.02*	*N/A*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Unknown	*210*	*T J*	*ug/Kg*	☼	*15.07*	*N/A*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Unknown	*360*	*T J*	*ug/Kg*	☼	*15.10*	*N/A*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Hop-22(29)-en-3.beta.-ol	*650*	*T J N*	*ug/Kg*	☼	*15.20*	*58801-23-3*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Unknown	*450*	*T J*	*ug/Kg*	☼	*15.31*	*N/A*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Unknown	*540*	*T J*	*ug/Kg*	☼	*15.36*	*N/A*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Unknown	*200*	*T J*	*ug/Kg*	☼	*15.85*	*N/A*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Unknown	*530*	*T J*	*ug/Kg*	☼	*16.32*	*N/A*	*02/18/25 14:01*	*02/19/25 17:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*26 - 143*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
2-Fluorobiphenyl	*79*		*50 - 121*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
2-Fluorophenol	*70*		*36 - 120*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Nitrobenzene-d5	*73*		*40 - 121*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
p-Terphenyl-d14	*93*		*46 - 143*	*02/18/25 14:01*	*02/19/25 17:36*	*1*
Phenol-d5	*74*		*41 - 120*	*02/18/25 14:01*	*02/19/25 17:36*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.2	0.42	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1

Client Sample ID: MW-1 1.5-4.25 ft
Lab Sample ID: 480-227296-8

Date Collected: 02/11/25 14:45
Matrix: Solid

Date Received: 02/11/25 16:00
Percent Solids: 77.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND		2.2	0.45	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
4,4'-DDT	ND		2.2	0.51	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Aldrin	ND		2.2	0.53	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
alpha-BHC	ND		2.2	0.39	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
cis-Chlordane	ND		2.2	1.1	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
beta-BHC	ND		2.2	0.39	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
delta-BHC	ND		2.2	0.40	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Dieldrin	ND		2.2	0.52	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Endosulfan I	ND		2.2	0.41	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Endosulfan II	ND		2.2	0.39	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Endosulfan sulfate	ND		2.2	0.40	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Endrin	ND		2.2	0.43	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Endrin aldehyde	ND		2.2	0.55	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Endrin ketone	ND		2.2	0.53	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
gamma-BHC (Lindane)	ND		2.2	0.40	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
trans-Chlordane	ND		2.2	0.69	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Heptachlor	ND		2.2	0.47	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Heptachlor epoxide	ND		2.2	0.56	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Methoxychlor	ND		2.2	0.44	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1
Toxaphene	ND		22	13	ug/Kg	☼	02/13/25 06:37	02/14/25 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*45 - 120*	*02/13/25 06:37*	*02/14/25 12:40*	*1*
DCB Decachlorobiphenyl	*89*		*45 - 120*	*02/13/25 06:37*	*02/14/25 12:40*	*1*
Tetrachloro-m-xylene	*66*		*30 - 124*	*02/13/25 06:37*	*02/14/25 12:40*	*1*
Tetrachloro-m-xylene	*69*		*30 - 124*	*02/13/25 06:37*	*02/14/25 12:40*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8480**		12.3	10.6	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Antimony	ND		18.5	0.65	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Arsenic	ND		2.5	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Barium	**29.7**		0.62	0.17	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Beryllium	**0.33**		0.25	0.049	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Cadmium	**0.23**	**J**	0.25	0.086	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Calcium	**24800**		61.6	33.2	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Chromium	**18.1**		0.62	0.44	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Cobalt	**3.2**		0.62	0.12	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Copper	**7.8**		1.2	0.70	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Iron	**10100**		12.3	10.4	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Lead	**10**		1.2	0.57	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Magnesium	**11500**		24.6	10.4	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Manganese	**255**		1.2	0.34	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Nickel	**7.7**		6.2	0.31	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Potassium	**1600**		37.0	29.9	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Selenium	**1.2**	**J**	4.9	0.99	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Silver	ND		0.74	0.25	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Sodium	**189**		172	75.5	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Thallium	ND		7.4	0.94	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1
Vanadium	**14.7**	***+ *-**	0.62	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: MW-1 1.5-4.25 ft
Lab Sample ID: 480-227296-8
Date Collected: 02/11/25 14:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 77.1

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	43.8		2.5	1.3	mg/Kg	☼	02/14/25 12:34	02/17/25 16:57	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.025	0.0058	mg/Kg	☼	02/14/25 10:25	02/14/25 15:10	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: MW-1 5-7 ft
Lab Sample ID: 480-227296-9
Date Collected: 02/11/25 15:00
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 85.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
1,4-Dioxane	ND		120	63	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2-Chlorophenol	ND		380	36	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2-Methylphenol	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
4-Chloroaniline	ND		200	48	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
4-Methylphenol	ND		380	23	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Acenaphthene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Acenaphthylene	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Acetophenone	ND		200	27	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Anthracene	ND		200	48	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Atrazine	ND		200	68	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Butyl benzyl phthalate	**33**	**J**	200	32	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Caprolactam	ND		200	59	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Carbazole	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Chrysene	ND		200	44	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Dibenzofuran	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1

Client Sample ID: MW-1 5-7 ft
Lab Sample ID: 480-227296-9
Date Collected: 02/11/25 15:00
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 85.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Fluoranthene	ND		200	21	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Fluorene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Hexachloroethane	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Isophorone	ND		200	42	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Naphthalene	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Nitrobenzene	ND		200	22	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Phenanthrene	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Phenol	ND		200	30	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1
Pyrene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 18:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2100*	*T J*	*ug/Kg*	☼	*3.15*	*N/A*	*02/18/25 14:01*	*02/19/25 18:00*	*1*
Stigmasterol, 22,23-dihydro-	*200*	*T J N*	*ug/Kg*	☼	*15.31*	*1000214-20-7*	*02/18/25 14:01*	*02/19/25 18:00*	*1*
Unknown	*240*	*T J*	*ug/Kg*	☼	*15.36*	*N/A*	*02/18/25 14:01*	*02/19/25 18:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*26 - 143*	*02/18/25 14:01*	*02/19/25 18:00*	*1*
2-Fluorobiphenyl	*78*		*50 - 121*	*02/18/25 14:01*	*02/19/25 18:00*	*1*
2-Fluorophenol	*70*		*36 - 120*	*02/18/25 14:01*	*02/19/25 18:00*	*1*
Nitrobenzene-d5	*71*		*40 - 121*	*02/18/25 14:01*	*02/19/25 18:00*	*1*
p-Terphenyl-d14	*90*		*46 - 143*	*02/18/25 14:01*	*02/19/25 18:00*	*1*
Phenol-d5	*74*		*41 - 120*	*02/18/25 14:01*	*02/19/25 18:00*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
4,4'-DDT	ND		1.9	0.44	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Aldrin	ND		1.9	0.46	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
alpha-BHC	ND		1.9	0.34	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
cis-Chlordane	ND		1.9	0.94	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
delta-BHC	ND		1.9	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Dieldrin	ND		1.9	0.45	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Endosulfan I	ND		1.9	0.36	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Endosulfan sulfate	ND		1.9	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Endrin	ND		1.9	0.37	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Endrin aldehyde	ND		1.9	0.48	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Endrin ketone	ND		1.9	0.46	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1

Client Sample ID: MW-1 5-7 ft
Lab Sample ID: 480-227296-9

Date Collected: 02/11/25 15:00
Matrix: Solid

Date Received: 02/11/25 16:00
Percent Solids: 85.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		1.9	0.60	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Heptachlor	ND		1.9	0.41	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Methoxychlor	ND		1.9	0.38	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1
Toxaphene	ND		19	11	ug/Kg	☼	02/13/25 06:37	02/14/25 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*45 - 120*	*02/13/25 06:37*	*02/14/25 13:00*	*1*
DCB Decachlorobiphenyl	*111*		*45 - 120*	*02/13/25 06:37*	*02/14/25 13:00*	*1*
Tetrachloro-m-xylene	*91*		*30 - 124*	*02/13/25 06:37*	*02/14/25 13:00*	*1*
Tetrachloro-m-xylene	*89*		*30 - 124*	*02/13/25 06:37*	*02/14/25 13:00*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8390**		11.2	9.7	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Antimony	ND		16.8	0.59	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Arsenic	**1.2**	**J**	2.2	0.99	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Barium	**53.5**		0.56	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Beryllium	**0.39**		0.22	0.045	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Cadmium	**0.24**		0.22	0.078	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Calcium	**945**		56.1	30.3	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Chromium	**9.7**		0.56	0.40	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Cobalt	**4.1**		0.56	0.11	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Copper	**12.4**		1.1	0.64	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Iron	**6580**		11.2	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Lead	**11.4**		1.1	0.52	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Magnesium	**2240**		22.4	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Manganese	**41.7**		1.1	0.31	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Nickel	**8.6**		5.6	0.28	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Potassium	**1700**		33.6	27.2	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Selenium	ND		4.5	0.90	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Silver	ND		0.67	0.22	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Sodium	**167**		157	68.7	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Thallium	ND		6.7	0.85	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Vanadium	**16.7**	***+ *-**	0.56	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1
Zinc	**92.1**		2.2	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 16:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.022	0.0052	mg/Kg	☼	02/14/25 10:25	02/14/25 15:11	1

Client Sample ID: MW-1 12-15 ft
Lab Sample ID: 480-227296-10
Date Collected: 02/11/25 15:05
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 83.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2,4-Dichlorophenol	ND		200	22	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2-Chloronaphthalene	ND		200	34	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
1,4-Dioxane	ND		120	66	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2-Chlorophenol	ND		400	37	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2-Methylphenol	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
3-Nitroaniline	ND		400	56	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
4,6-Dinitro-2-methylphenol	ND		400	200	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
4-Methylphenol	ND		400	24	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Acenaphthene	ND		200	30	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Acenaphthylene	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Acetophenone	ND		200	28	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Anthracene	ND		200	50	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Atrazine	ND		200	71	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Benzo[g,h,i]perylene	ND		200	22	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Butyl benzyl phthalate	ND		200	34	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Caprolactam	ND		200	61	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Carbazole	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Chrysene	ND		200	45	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Dibenzofuran	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1

Client Sample ID: MW-1 12-15 ft
Lab Sample ID: 480-227296-10
Date Collected: 02/11/25 15:05
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 83.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Fluoranthene	ND		200	22	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Fluorene	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Hexachlorobenzene	ND		200	28	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Hexachlorocyclopentadiene	ND		200	28	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Hexachloroethane	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Isophorone	ND		200	43	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
N-Nitrosodiphenylamine	ND		200	170	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Naphthalene	ND		200	26	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Nitrobenzene	ND		200	23	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Pentachlorophenol	ND		400	200	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Phenanthrene	ND		200	30	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Phenol	ND		200	31	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1
Pyrene	ND		200	24	ug/Kg	☼	02/18/25 14:01	02/19/25 18:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2100*	*T J*	*ug/Kg*	☼	*3.14*	*N/A*	*02/18/25 14:01*	*02/19/25 18:25*	*1*
Unknown	*200*	*T J*	*ug/Kg*	☼	*13.25*	*N/A*	*02/18/25 14:01*	*02/19/25 18:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*26 - 143*	*02/18/25 14:01*	*02/19/25 18:25*	*1*
2-Fluorobiphenyl	*85*		*50 - 121*	*02/18/25 14:01*	*02/19/25 18:25*	*1*
2-Fluorophenol	*80*		*36 - 120*	*02/18/25 14:01*	*02/19/25 18:25*	*1*
Nitrobenzene-d5	*85*		*40 - 121*	*02/18/25 14:01*	*02/19/25 18:25*	*1*
p-Terphenyl-d14	*94*		*46 - 143*	*02/18/25 14:01*	*02/19/25 18:25*	*1*
Phenol-d5	*84*		*41 - 120*	*02/18/25 14:01*	*02/19/25 18:25*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.38	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
4,4'-DDE	ND		2.0	0.41	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
Aldrin	ND		2.0	0.48	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
alpha-BHC	ND		2.0	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
cis-Chlordane	ND		2.0	0.97	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
beta-BHC	ND		2.0	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
delta-BHC	ND		2.0	0.36	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
Dieldrin	ND		2.0	0.47	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
Endosulfan I	ND		2.0	0.37	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
Endosulfan II	ND		2.0	0.35	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
Endosulfan sulfate	ND		2.0	0.36	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
Endrin	ND		2.0	0.39	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
Endrin aldehyde	ND		2.0	0.50	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
Endrin ketone	ND		2.0	0.48	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
trans-Chlordane	ND		2.0	0.62	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
Heptachlor	ND		2.0	0.42	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1

Client Sample ID: MW-1 12-15 ft
Lab Sample ID: 480-227296-10

Date Collected: 02/11/25 15:05
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 83.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		2.0	0.50	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1
Toxaphene	ND		20	11	ug/Kg	☼	02/13/25 06:37	02/14/25 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*45 - 120*	*02/13/25 06:37*	*02/14/25 13:20*	*1*
DCB Decachlorobiphenyl	*111*		*45 - 120*	*02/13/25 06:37*	*02/14/25 13:20*	*1*
Tetrachloro-m-xylene	*89*		*30 - 124*	*02/13/25 06:37*	*02/14/25 13:20*	*1*
Tetrachloro-m-xylene	*86*		*30 - 124*	*02/13/25 06:37*	*02/14/25 13:20*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3740**		12.7	10.9	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Antimony	ND		19.0	0.67	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Arsenic	ND		2.5	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Barium	**13.7**		0.63	0.18	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Beryllium	**0.17**	**J**	0.25	0.051	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Cadmium	**0.20**	**J**	0.25	0.089	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Calcium	**55900**		63.4	34.2	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Chromium	**5.0**		0.63	0.46	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Cobalt	**2.1**		0.63	0.13	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Copper	**8.5**		1.3	0.72	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Iron	**5540**		12.7	10.7	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Lead	**6.0**		1.3	0.58	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Magnesium	**31600**		25.3	10.7	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Manganese	**162**		1.3	0.35	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Nickel	**5.1**	**J**	6.3	0.32	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Potassium	**1300**		38.0	30.7	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Selenium	ND		5.1	1.0	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Silver	ND		0.76	0.25	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Sodium	**224**		177	77.7	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Thallium	ND		7.6	0.96	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Vanadium	**8.1**	***+ *-**	0.63	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1
Zinc	**34.0**		2.5	1.3	mg/Kg	☼	02/14/25 12:34	02/17/25 17:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0091**	**J**	0.024	0.0055	mg/Kg	☼	02/14/25 10:25	02/14/25 15:12	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: RISB-2 1-4 ft
Lab Sample ID: 480-227296-11
Date Collected: 02/11/25 14:00
Matrix: Solid
Date Received: 02/11/25 16:00

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			02/14/25 16:31	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/14/25 16:31	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/14/25 16:31	10
Chloroform	ND		0.010	0.0034	mg/L			02/14/25 16:31	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/14/25 16:31	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/14/25 16:31	10
2-Butanone (MEK)	ND	*+	0.050	0.013	mg/L			02/14/25 16:31	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/14/25 16:31	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/14/25 16:31	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/14/25 16:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*02/14/25 16:31*	*10*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/14/25 16:31*	*10*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*02/14/25 16:31*	*10*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*02/14/25 16:31*	*10*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/14/25 13:37	02/17/25 13:14	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/14/25 13:37	02/17/25 13:14	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/14/25 13:37	02/17/25 13:14	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/14/25 13:37	02/17/25 13:14	1
Hexachloroethane	ND		0.020	0.0023	mg/L		02/14/25 13:37	02/17/25 13:14	1
3-Methylphenol	ND		0.040	0.0016	mg/L		02/14/25 13:37	02/17/25 13:14	1
2-Methylphenol	ND		0.020	0.0016	mg/L		02/14/25 13:37	02/17/25 13:14	1
4-Methylphenol	ND		0.040	0.0014	mg/L		02/14/25 13:37	02/17/25 13:14	1
Nitrobenzene	ND		0.020	0.0011	mg/L		02/14/25 13:37	02/17/25 13:14	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		02/14/25 13:37	02/17/25 13:14	1
Pyridine	ND		0.10	0.0016	mg/L		02/14/25 13:37	02/17/25 13:14	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/14/25 13:37	02/17/25 13:14	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/14/25 13:37	02/17/25 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*25 - 144*	*02/14/25 13:37*	*02/17/25 13:14*	*1*
2-Fluorobiphenyl	*92*		*53 - 126*	*02/14/25 13:37*	*02/17/25 13:14*	*1*
2-Fluorophenol	*50*		*24 - 120*	*02/14/25 13:37*	*02/17/25 13:14*	*1*
Nitrobenzene-d5	*90*		*29 - 129*	*02/14/25 13:37*	*02/17/25 13:14*	*1*
p-Terphenyl-d14	*95*		*33 - 132*	*02/14/25 13:37*	*02/17/25 13:14*	*1*
Phenol-d5	*37*		*10 - 120*	*02/14/25 13:37*	*02/17/25 13:14*	*1*

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**	**J**	0.015	0.0056	mg/L		02/15/25 08:21	02/17/25 14:34	1
Barium	**0.40**	**J**	1.0	0.10	mg/L		02/15/25 08:21	02/17/25 14:34	1
Cadmium	**0.0090**		0.0020	0.00050	mg/L		02/15/25 08:21	02/17/25 14:34	1
Chromium	ND		0.020	0.010	mg/L		02/15/25 08:21	02/17/25 14:34	1
Lead	**9.1**		0.020	0.0030	mg/L		02/15/25 08:21	02/17/25 14:34	1
Selenium	ND		0.025	0.0087	mg/L		02/15/25 08:21	02/17/25 14:34	1
Silver	ND		0.0060	0.0017	mg/L		02/15/25 08:21	02/17/25 14:34	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: RISB-2 1-4 ft
Lab Sample ID: 480-227296-11

Date Collected: 02/11/25 14:00
Matrix: Solid
Date Received: 02/11/25 16:00

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00010**	**J**	0.00020	0.000042	mg/L		02/14/25 13:14	02/14/25 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.7	9.7	mg/Kg		02/24/25 14:10	02/25/25 12:27	1
Sulfide, Reactive (SW846 9034)	ND		9.7	9.7	mg/Kg		02/24/25 14:10	02/25/25 12:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>180**		50.0	50.0	Degrees F			02/19/25 09:14	1
pH (SW846 9045D)	**7.9**	**HF**	0.1	0.1	SU			02/18/25 09:45	1
Temperature (SW846 9045D)	**16.5**	**HF**	0.001	0.001	Degrees C			02/18/25 09:45	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: RISB-2 1-4 ft
Lab Sample ID: 480-227296-11
Date Collected: 02/11/25 14:00
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 78.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.050	mg/Kg	☼	02/13/25 06:45	02/14/25 18:17	1
PCB-1221	ND		0.25	0.050	mg/Kg	☼	02/13/25 06:45	02/14/25 18:17	1
PCB-1232	ND		0.25	0.050	mg/Kg	☼	02/13/25 06:45	02/14/25 18:17	1
PCB-1242	ND		0.25	0.050	mg/Kg	☼	02/13/25 06:45	02/14/25 18:17	1
PCB-1248	ND		0.25	0.050	mg/Kg	☼	02/13/25 06:45	02/14/25 18:17	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	02/13/25 06:45	02/14/25 18:17	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	02/13/25 06:45	02/14/25 18:17	1
PCB-1262	ND		0.25	0.12	mg/Kg	☼	02/13/25 06:45	02/14/25 18:17	1
PCB-1268	ND		0.25	0.12	mg/Kg	☼	02/13/25 06:45	02/14/25 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*60 - 154*	*02/13/25 06:45*	*02/14/25 18:17*	*1*
Tetrachloro-m-xylene	*82*		*60 - 154*	*02/13/25 06:45*	*02/14/25 18:17*	*1*
DCB Decachlorobiphenyl	*89*		*65 - 174*	*02/13/25 06:45*	*02/14/25 18:17*	*1*
DCB Decachlorobiphenyl	*75*		*65 - 174*	*02/13/25 06:45*	*02/14/25 18:17*	*1*

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: RISB-3 0.5-3 ft
Lab Sample ID: 480-227296-12
Date Collected: 02/11/25 14:30
Matrix: Solid
Date Received: 02/11/25 16:00

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			02/14/25 16:53	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/14/25 16:53	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/14/25 16:53	10
Chloroform	ND		0.010	0.0034	mg/L			02/14/25 16:53	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/14/25 16:53	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/14/25 16:53	10
2-Butanone (MEK)	ND	*+	0.050	0.013	mg/L			02/14/25 16:53	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/14/25 16:53	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/14/25 16:53	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/14/25 16:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*02/14/25 16:53*	*10*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/14/25 16:53*	*10*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*02/14/25 16:53*	*10*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*02/14/25 16:53*	*10*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/14/25 13:37	02/17/25 13:40	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/14/25 13:37	02/17/25 13:40	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/14/25 13:37	02/17/25 13:40	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/14/25 13:37	02/17/25 13:40	1
Hexachloroethane	ND		0.020	0.0023	mg/L		02/14/25 13:37	02/17/25 13:40	1
3-Methylphenol	ND		0.040	0.0016	mg/L		02/14/25 13:37	02/17/25 13:40	1
2-Methylphenol	ND		0.020	0.0016	mg/L		02/14/25 13:37	02/17/25 13:40	1
4-Methylphenol	ND		0.040	0.0014	mg/L		02/14/25 13:37	02/17/25 13:40	1
Nitrobenzene	ND		0.020	0.0011	mg/L		02/14/25 13:37	02/17/25 13:40	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		02/14/25 13:37	02/17/25 13:40	1
Pyridine	**0.0091**	**J**	0.10	0.0016	mg/L		02/14/25 13:37	02/17/25 13:40	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/14/25 13:37	02/17/25 13:40	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/14/25 13:37	02/17/25 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*25 - 144*	*02/14/25 13:37*	*02/17/25 13:40*	*1*
2-Fluorobiphenyl	*94*		*53 - 126*	*02/14/25 13:37*	*02/17/25 13:40*	*1*
2-Fluorophenol	*52*		*24 - 120*	*02/14/25 13:37*	*02/17/25 13:40*	*1*
Nitrobenzene-d5	*91*		*29 - 129*	*02/14/25 13:37*	*02/17/25 13:40*	*1*
p-Terphenyl-d14	*102*		*33 - 132*	*02/14/25 13:37*	*02/17/25 13:40*	*1*
Phenol-d5	*37*		*10 - 120*	*02/14/25 13:37*	*02/17/25 13:40*	*1*

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0077**	**J**	0.015	0.0056	mg/L		02/15/25 08:21	02/17/25 14:44	1
Barium	**0.55**	**J**	1.0	0.10	mg/L		02/15/25 08:21	02/17/25 14:44	1
Cadmium	**0.0018**	**J**	0.0020	0.00050	mg/L		02/15/25 08:21	02/17/25 14:44	1
Chromium	ND		0.020	0.010	mg/L		02/15/25 08:21	02/17/25 14:44	1
Lead	**0.051**		0.020	0.0030	mg/L		02/15/25 08:21	02/17/25 14:44	1
Selenium	ND		0.025	0.0087	mg/L		02/15/25 08:21	02/17/25 14:44	1
Silver	ND		0.0060	0.0017	mg/L		02/15/25 08:21	02/17/25 14:44	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: RISB-3 0.5-3 ft
Lab Sample ID: 480-227296-12
Date Collected: 02/11/25 14:30
Matrix: Solid
Date Received: 02/11/25 16:00

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/14/25 13:14	02/14/25 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.5	9.5	mg/Kg		02/24/25 14:10	02/25/25 12:28	1
Sulfide, Reactive (SW846 9034)	ND		9.5	9.5	mg/Kg		02/24/25 14:10	02/25/25 12:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>180**		50.0	50.0	Degrees F			02/19/25 09:14	1
pH (SW846 9045D)	**8.2**	**HF**	0.1	0.1	SU			02/18/25 09:45	1
Temperature (SW846 9045D)	**16.6**	**HF**	0.001	0.001	Degrees C			02/18/25 09:45	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: RISB-3 0.5-3 ft
Lab Sample ID: 480-227296-12
Date Collected: 02/11/25 14:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 88.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	02/13/25 06:45	02/14/25 18:35	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	02/13/25 06:45	02/14/25 18:35	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	02/13/25 06:45	02/14/25 18:35	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	02/13/25 06:45	02/14/25 18:35	1
PCB-1248	ND		0.27	0.052	mg/Kg	☼	02/13/25 06:45	02/14/25 18:35	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	02/13/25 06:45	02/14/25 18:35	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	02/13/25 06:45	02/14/25 18:35	1
PCB-1262	ND		0.27	0.13	mg/Kg	☼	02/13/25 06:45	02/14/25 18:35	1
PCB-1268	ND		0.27	0.13	mg/Kg	☼	02/13/25 06:45	02/14/25 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*60 - 154*	*02/13/25 06:45*	*02/14/25 18:35*	*1*
Tetrachloro-m-xylene	*112*		*60 - 154*	*02/13/25 06:45*	*02/14/25 18:35*	*1*
DCB Decachlorobiphenyl	*138*		*65 - 174*	*02/13/25 06:45*	*02/14/25 18:35*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*02/13/25 06:45*	*02/14/25 18:35*	*1*

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
LCS 480-739017/6	Lab Control Sample	100	100	102	103
LCSD 480-739017/7	Lab Control Sample Dup	99	101	102	101
MB 480-739017/9	Method Blank	97	107	101	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-227296-11	RISB-2 1-4 ft	98	101	104	104
480-227296-12	RISB-3 0.5-3 ft	97	102	106	103
LB 480-738886/1-A	Method Blank	96	103	104	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-227296-1	TP-28 0-2 ft	108	100	92	103
480-227296-3	MW-4 0.5-2 ft	111	102	91	111
LCS 480-738858/1-A	Lab Control Sample	99	99	93	104
MB 480-738858/3-A	Method Blank	101	102	93	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(46-143)	(41-120)
480-227296-1	TP-28 0-2 ft	90	88	81	84	94	80
480-227296-2	TP-28 5-7 ft	91	83	77	83	89	82
480-227296-3	MW-4 0.5-2 ft	97	90	76	82	103	76

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(46-143)	(41-120)
480-227296-3 MS	MW-4 0.5-2 ft	104	90	87	89	96	89
480-227296-3 MSD	MW-4 0.5-2 ft	113	102	85	93	115	89
480-227296-4	MW-4 5-8 ft	98	84	84	83	91	85
480-227296-5	MW-4 12-15 ft	93	90	88	88	97	88
480-227296-6	SS-7	83	79	71	75	74	81
480-227296-7	TP-30 2-3 ft	93	87	85	87	94	90
480-227296-8	MW-1 1.5-4.25 ft	89	79	70	73	93	74
480-227296-9	MW-1 5-7 ft	90	78	70	71	90	74
480-227296-10	MW-1 12-15 ft	88	85	80	85	94	84
LCS 480-738933/2-A	Lab Control Sample	105	95	88	87	96	91
LCS 480-739213/2-A	Lab Control Sample	104	96	88	92	96	92
MB 480-738933/1-A	Method Blank	94	93	84	86	91	88
MB 480-739213/1-A	Method Blank	86	87	83	83	93	87

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(33-132)	(10-120)
LCS 480-739037/2-A	Lab Control Sample	106	97	53	88	98	38
LCSD 480-739037/3-A	Lab Control Sample Dup	108	97	54	94	102	41
MB 480-739037/1-A	Method Blank	85	93	52	91	102	39

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(33-132)	(10-120)
480-227296-11	RISB-2 1-4 ft	89	92	50	90	95	37
480-227296-12	RISB-3 0.5-3 ft	89	94	52	91	102	37
LB 480-738884/1-D	Method Blank	89	93	52	89	102	37

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-227296-1	TP-28 0-2 ft	79	197 S1+	61	81
480-227296-2	TP-28 5-7 ft	92	107	87	85
480-227296-3	MW-4 0.5-2 ft	186 S1+	406 S1+	65	76
480-227296-4	MW-4 5-8 ft	93	103	85	81
480-227296-5	MW-4 12-15 ft	96	108	87	84
480-227296-6	SS-7	85	284 S1+	92	88
480-227296-7	TP-30 2-3 ft	93	108	71	80
480-227296-8	MW-1 1.5-4.25 ft	81	89	66	69
480-227296-9	MW-1 5-7 ft	102	111	91	89
480-227296-10	MW-1 12-15 ft	101	111	89	86
LCS 480-738872/2-A	Lab Control Sample	89	94	75	74
MB 480-738872/1-A	Method Blank	90	94	69	71

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-227296-1	TP-28 0-2 ft	108	97	111	135
480-227296-3	MW-4 0.5-2 ft	110	102	115	130
480-227296-11	RISB-2 1-4 ft	82	71	75	89
480-227296-12	RISB-3 0.5-3 ft	112	100	119	138
LCS 480-738874/2-A	Lab Control Sample	130	103	136	129
MB 480-738874/1-A	Method Blank	114	99	131	117

Surrogate Legend
TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(28-129)	(28-129)
480-227296-1	TP-28 0-2 ft	71	71
480-227296-3	MW-4 0.5-2 ft	71	67
LCS 480-738873/2-A	Lab Control Sample	73	75
MB 480-738873/1-A	Method Blank	69	70

Surrogate Legend
DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
480-227296-1	TP-28 0-2 ft	95.7	94.5	96.0	96.9	88.8	93.5	95.4	91.6
480-227296-3	MW-4 0.5-2 ft	95.0	99.3	95.5	97.6	91.0	90.0	91.9	89.0
LCS 240-644982/3-A	Lab Control Sample	95.3	95.4	95.8	99.0	91.6	94.2	94.4	92.3
LLCS 240-644982/2-A	Lab Control Sample	95.7	95.2	93.6	93.4	83.9	85.1	83.6	79.8
MB 240-644982/1-A	Method Blank	95.5	94.6	95.6	96.6	83.8	93.0	89.6	82.8

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)
480-227296-1	TP-28 0-2 ft	79.0	87.6	85.2	95.2	99.0	86.4	89.8	91.4
480-227296-3	MW-4 0.5-2 ft	79.8	88.6	87.0	96.6	97.1	89.1	89.1	86.8
LCS 240-644982/3-A	Lab Control Sample	81.4	90.7	90.6	99.4	94.9	89.5	88.3	89.6
LLCS 240-644982/2-A	Lab Control Sample	65.5	89.6	84.7	88.2	88.9	77.5	77.5	95.0
MB 240-644982/1-A	Method Blank	60.6	87.7	88.1	94.6	85.9	81.6	82.5	89.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)	PFDoDA (20-150)
480-227296-1	TP-28 0-2 ft	89.6	78.8	97.7	57.3	50.0	80.5	85.5	86.0
480-227296-3	MW-4 0.5-2 ft	85.6	85.7	104	62.9	52.3	79.5	84.3	85.0
LCS 240-644982/3-A	Lab Control Sample	87.9	84.4	101	66.2	59.8	64.2	71.4	85.7
LLCS 240-644982/2-A	Lab Control Sample	88.5	75.1	100	33.7	30.5	56.2	61.6	74.6
MB 240-644982/1-A	Method Blank	89.0	84.0	99.7	26.7	23.2	58.3	66.4	73.8

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = D3-NMeFOSA
PFDoDA = 13C2-PFDoDA

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-739017/9
Matrix: Solid
Analysis Batch: 739017

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			02/14/25 15:24	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			02/14/25 15:24	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			02/14/25 15:24	1
Benzene	ND		0.0010	0.00041	mg/L			02/14/25 15:24	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			02/14/25 15:24	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			02/14/25 15:24	1
Chloroform	ND		0.0010	0.00034	mg/L			02/14/25 15:24	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			02/14/25 15:24	1
Trichloroethene	ND		0.0010	0.00046	mg/L			02/14/25 15:24	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			02/14/25 15:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*02/14/25 15:24*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*02/14/25 15:24*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/14/25 15:24*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*02/14/25 15:24*	*1*

Lab Sample ID: LCS 480-739017/6
Matrix: Solid
Analysis Batch: 739017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0250	0.0254		mg/L		102	66 - 127		
1,2-Dichloroethane			0.0250	0.0205		mg/L		82	75 - 120		
2-Butanone (MEK)			0.125	0.223	*+	mg/L		179	57 - 140		
Benzene			0.0250	0.0234		mg/L		94	71 - 124		
Carbon tetrachloride			0.0250	0.0251		mg/L		101	72 - 134		
Chlorobenzene			0.0250	0.0231		mg/L		93	80 - 120		
Chloroform			0.0250	0.0221		mg/L		89	73 - 127		
Tetrachloroethene			0.0250	0.0257		mg/L		103	74 - 122		
Trichloroethene			0.0250	0.0240		mg/L		96	74 - 123		
Vinyl chloride			0.0250	0.0225		mg/L		90	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: LCSD 480-739017/7
Matrix: Solid
Analysis Batch: 739017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene			0.0250	0.0259		mg/L		104	66 - 127	2	16
1,2-Dichloroethane			0.0250	0.0207		mg/L		83	75 - 120	1	20
2-Butanone (MEK)			0.125	0.217	*+	mg/L		173	57 - 140	3	20
Benzene			0.0250	0.0238		mg/L		95	71 - 124	2	13

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LCSD 480-739017/7
Matrix: Solid
Analysis Batch: 739017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride			0.0250	0.0255		mg/L		102	72 - 134	1	15
Chlorobenzene			0.0250	0.0242		mg/L		97	80 - 120	4	25
Chloroform			0.0250	0.0220		mg/L		88	73 - 127	0	20
Tetrachloroethene			0.0250	0.0271		mg/L		108	74 - 122	5	20
Trichloroethene			0.0250	0.0246		mg/L		98	74 - 123	2	16
Vinyl chloride			0.0250	0.0221		mg/L		88	65 - 133	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: LB 480-738886/1-A
Matrix: Solid
Analysis Batch: 739017

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/14/25 15:46	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/14/25 15:46	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/14/25 15:46	10
Benzene	ND		0.010	0.0041	mg/L			02/14/25 15:46	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/14/25 15:46	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/14/25 15:46	10
Chloroform	ND		0.010	0.0034	mg/L			02/14/25 15:46	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/14/25 15:46	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/14/25 15:46	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/14/25 15:46	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*02/14/25 15:46*	*10*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*02/14/25 15:46*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/14/25 15:46*	*10*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*02/14/25 15:46*	*10*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-738858/3-A
Matrix: Solid
Analysis Batch: 738939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		02/12/25 14:39	02/13/25 17:47	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-738858/3-A
Matrix: Solid
Analysis Batch: 738939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
2-Hexanone	ND		25	2.5	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Acetone	ND		25	4.2	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Benzene	ND		5.0	0.25	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Bromoform	ND		5.0	2.5	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Bromomethane	ND		5.0	0.45	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Chloroethane	ND		5.0	1.1	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Chloroform	0.479	J	5.0	0.31	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Chloromethane	ND		5.0	0.30	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Cyclohexane	ND		5.0	0.70	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Methyl acetate	ND		25	3.0	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
m,p-Xylene	ND		10	0.84	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Naphthalene	ND		5.0	0.67	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
o-Xylene	ND		5.0	0.65	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Toluene	ND		5.0	0.38	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Trichloroethene	ND		5.0	1.1	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Xylenes, Total	ND		10	0.84	ug/Kg		02/12/25 14:39	02/13/25 17:47	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-738858/3-A
Matrix: Solid
Analysis Batch: 738939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
Styrene	ND		5.0	0.25	ug/Kg		02/12/25 14:39	02/13/25 17:47	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		02/12/25 14:39	02/13/25 17:47	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*	*02/12/25 14:39*	*02/13/25 17:47*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*02/12/25 14:39*	*02/13/25 17:47*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*02/12/25 14:39*	*02/13/25 17:47*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*02/12/25 14:39*	*02/13/25 17:47*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*02/12/25 14:39*	*02/13/25 17:47*	*1*

Lab Sample ID: LCS 480-738858/1-A
Matrix: Solid
Analysis Batch: 738939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	54.5		ug/Kg		109	77 - 121
1,1,2,2-Tetrachloroethane	50.0	45.4		ug/Kg		91	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.7		ug/Kg		109	60 - 140
1,1,2-Trichloroethane	50.0	46.0		ug/Kg		92	78 - 122
1,1-Dichloroethane	50.0	54.5		ug/Kg		109	73 - 126
1,1-Dichloroethene	50.0	53.7		ug/Kg		107	59 - 125
1,2,4-Trichlorobenzene	50.0	44.8		ug/Kg		90	64 - 120
1,2,4-Trimethylbenzene	50.0	46.8		ug/Kg		94	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.1		ug/Kg		94	63 - 124
1,2-Dichlorobenzene	50.0	44.2		ug/Kg		88	75 - 120
1,2-Dichloroethane	50.0	53.6		ug/Kg		107	77 - 122
1,2-Dichloropropane	50.0	54.6		ug/Kg		109	75 - 124
1,3,5-Trimethylbenzene	50.0	47.1		ug/Kg		94	74 - 120
1,3-Dichlorobenzene	50.0	44.4		ug/Kg		89	74 - 120
1,4-Dichlorobenzene	50.0	43.3		ug/Kg		87	73 - 120
2-Butanone (MEK)	250	290		ug/Kg		116	70 - 134
2-Hexanone	250	262		ug/Kg		105	59 - 130
4-Isopropyltoluene	50.0	46.2		ug/Kg		92	74 - 120
4-Methyl-2-pentanone (MIBK)	250	262		ug/Kg		105	65 - 133
Acetone	250	300		ug/Kg		120	61 - 137
Benzene	50.0	53.3		ug/Kg		107	79 - 127
Bromoform	50.0	47.3		ug/Kg		95	68 - 126
Bromomethane	50.0	53.6		ug/Kg		107	37 - 149
Carbon disulfide	50.0	51.8		ug/Kg		104	64 - 131
Carbon tetrachloride	50.0	54.3		ug/Kg		109	75 - 135
Chlorobenzene	50.0	44.8		ug/Kg		90	76 - 124
Dibromochloromethane	50.0	48.6		ug/Kg		97	76 - 125
Chloroethane	50.0	55.3		ug/Kg		111	69 - 135
Chloroform	50.0	52.6		ug/Kg		105	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-738858/1-A
Matrix: Solid
Analysis Batch: 738939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	50.0	54.4		ug/Kg		109	63 - 127
cis-1,2-Dichloroethene	50.0	51.8		ug/Kg		104	81 - 120
Cyclohexane	50.0	58.0		ug/Kg		116	65 - 120
Bromodichloromethane	50.0	54.2		ug/Kg		108	80 - 122
Dichlorodifluoromethane	50.0	47.9		ug/Kg		96	57 - 142
Ethylbenzene	50.0	46.6		ug/Kg		93	80 - 120
1,2-Dibromoethane	50.0	45.2		ug/Kg		90	78 - 120
Isopropylbenzene	50.0	48.1		ug/Kg		96	72 - 120
Methyl acetate	100	112		ug/Kg		112	55 - 136
Methyl tert-butyl ether	50.0	53.5		ug/Kg		107	63 - 125
Methylcyclohexane	50.0	54.8		ug/Kg		110	60 - 140
Methylene Chloride	50.0	54.5		ug/Kg		109	61 - 127
m,p-Xylene	50.0	45.4		ug/Kg		91	70 - 130
Naphthalene	50.0	46.3		ug/Kg		93	38 - 137
n-Butylbenzene	50.0	47.2		ug/Kg		94	70 - 120
N-Propylbenzene	50.0	47.1		ug/Kg		94	70 - 130
o-Xylene	50.0	45.8		ug/Kg		92	70 - 130
sec-Butylbenzene	50.0	47.3		ug/Kg		95	74 - 120
Tetrachloroethene	50.0	45.9		ug/Kg		92	74 - 122
Toluene	50.0	46.1		ug/Kg		92	74 - 128
trans-1,2-Dichloroethene	50.0	53.6		ug/Kg		107	78 - 126
trans-1,3-Dichloropropene	50.0	47.0		ug/Kg		94	73 - 123
Trichloroethene	50.0	52.0		ug/Kg		104	77 - 129
Trichlorofluoromethane	50.0	57.8		ug/Kg		116	65 - 146
Vinyl chloride	50.0	54.4		ug/Kg		109	61 - 133
cis-1,3-Dichloropropene	50.0	52.3		ug/Kg		105	80 - 120
Styrene	50.0	45.2		ug/Kg		90	80 - 120
tert-Butylbenzene	50.0	48.1		ug/Kg		96	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*
Toluene-d8 (Surr)	*93*		*71 - 125*
Dibromofluoromethane (Surr)	*104*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-738933/1-A
Matrix: Solid
Analysis Batch: 738999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		02/13/25 13:37	02/14/25 14:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-738933/1-A
Matrix: Solid
Analysis Batch: 738999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		170	28	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
1,4-Dioxane	ND		100	55	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2-Chlorophenol	ND		330	31	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2-Methylnaphthalene	ND		170	34	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2-Methylphenol	ND		170	20	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2-Nitroaniline	ND		330	25	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
2-Nitrophenol	ND		170	48	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
3-Nitroaniline	ND		330	47	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
4-Chloroaniline	ND		170	42	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
4-Methylphenol	ND		330	20	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
4-Nitroaniline	ND		330	89	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
4-Nitrophenol	ND		330	120	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Acenaphthene	ND		170	25	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Acenaphthylene	ND		170	22	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Acetophenone	ND		170	23	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Anthracene	ND		170	42	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Atrazine	ND		170	59	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Benzaldehyde	ND		170	140	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Benzo[a]anthracene	ND		170	17	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Benzo[a]pyrene	ND		170	25	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Caprolactam	ND		170	51	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Carbazole	ND		170	20	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Chrysene	ND		170	38	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Dibenzofuran	ND		170	20	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Diethyl phthalate	ND		170	22	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Dimethyl phthalate	ND		170	20	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Fluoranthene	ND		170	18	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Fluorene	ND		170	20	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Hexachlorobenzene	ND		170	23	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Hexachlorobutadiene	ND		170	25	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Hexachloroethane	ND		170	22	ug/Kg		02/13/25 13:37	02/14/25 14:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-738933/1-A
Matrix: Solid
Analysis Batch: 738999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Isophorone	ND		170	36	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Naphthalene	ND		170	22	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Nitrobenzene	ND		170	19	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Pentachlorophenol	ND		330	170	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Phenanthrene	ND		170	25	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Phenol	ND		170	26	ug/Kg		02/13/25 13:37	02/14/25 14:45	1
Pyrene	ND		170	20	ug/Kg		02/13/25 13:37	02/14/25 14:45	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14400*	*T J*	*ug/Kg*		*1.81*	*N/A*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
Unknown	*3040*	*T J*	*ug/Kg*		*1.87*	*N/A*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
Unknown	*1860*	*T J*	*ug/Kg*		*3.15*	*N/A*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
Ethane, 1,1,2,2-tetrachloro-	*190*	*T J N*	*ug/Kg*		*4.33*	*79-34-5*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
Unknown	*154*	*T J*	*ug/Kg*		*13.24*	*N/A*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
Unknown	*177*	*T J*	*ug/Kg*		*13.84*	*N/A*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
Unknown	*480*	*T J*	*ug/Kg*		*13.95*	*N/A*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
Unknown	*190*	*T J*	*ug/Kg*		*13.98*	*N/A*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
Unknown	*534*	*T J*	*ug/Kg*		*14.28*	*N/A*	*02/13/25 13:37*	*02/14/25 14:45*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*26 - 143*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
2-Fluorobiphenyl	*93*		*50 - 121*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
2-Fluorophenol	*84*		*36 - 120*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
Nitrobenzene-d5	*86*		*40 - 121*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
p-Terphenyl-d14	*91*		*46 - 143*	*02/13/25 13:37*	*02/14/25 14:45*	*1*
Phenol-d5	*88*		*41 - 120*	*02/13/25 13:37*	*02/14/25 14:45*	*1*

Lab Sample ID: LCS 480-738933/2-A
Matrix: Solid
Analysis Batch: 738999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	1330	1230		ug/Kg		92	59 - 120
bis (2-chloroisopropyl) ether	1330	1070		ug/Kg		80	44 - 120
2,4-Dichlorophenol	1330	1350		ug/Kg		102	61 - 120
2,4-Dimethylphenol	1330	1330		ug/Kg		100	59 - 120
2,4-Dinitrophenol	2670	2610		ug/Kg		98	41 - 146
2,4-Dinitrotoluene	1330	1390		ug/Kg		105	63 - 120
2,6-Dinitrotoluene	1330	1330		ug/Kg		100	66 - 120
2-Chloronaphthalene	1330	1240		ug/Kg		93	57 - 120
1,4-Dioxane	1330	585		ug/Kg		44	23 - 120
2,4,5-Trichlorophenol	1330	1410		ug/Kg		105	59 - 126
2-Chlorophenol	1330	1270		ug/Kg		95	53 - 120
2,4,6-Trichlorophenol	1330	1290		ug/Kg		96	59 - 123
2-Methylnaphthalene	1330	1260		ug/Kg		94	59 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-738933/2-A
Matrix: Solid
Analysis Batch: 738999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylphenol	1330	1290		ug/Kg		97	54 - 120
2-Nitroaniline	1330	1280		ug/Kg		96	61 - 120
2-Nitrophenol	1330	1270		ug/Kg		95	56 - 120
3,3'-Dichlorobenzidine	1330	1090		ug/Kg		82	54 - 120
3-Nitroaniline	1330	1040		ug/Kg		78	48 - 120
4,6-Dinitro-2-methylphenol	2670	2780		ug/Kg		104	49 - 122
4-Bromophenyl phenyl ether	1330	1390		ug/Kg		104	58 - 120
4-Chloro-3-methylphenol	1330	1380		ug/Kg		103	61 - 120
4-Chloroaniline	1330	1090		ug/Kg		82	38 - 120
4-Chlorophenyl phenyl ether	1330	1320		ug/Kg		99	63 - 124
4-Methylphenol	1330	1360		ug/Kg		102	55 - 120
4-Nitroaniline	1330	1330		ug/Kg		100	56 - 120
4-Nitrophenol	2670	2860		ug/Kg		107	43 - 147
Acenaphthene	1330	1280		ug/Kg		96	62 - 120
Acenaphthylene	1330	1320		ug/Kg		99	58 - 121
Acetophenone	1330	1320		ug/Kg		99	54 - 120
Anthracene	1330	1330		ug/Kg		100	62 - 120
Atrazine	1330	1450		ug/Kg		109	60 - 127
Benzaldehyde	1330	1360		ug/Kg		102	10 - 150
Benzo[a]anthracene	1330	1310		ug/Kg		98	65 - 120
Benzo[a]pyrene	1330	1350		ug/Kg		101	64 - 120
Benzo[b]fluoranthene	1330	1290		ug/Kg		97	64 - 120
Benzo[g,h,i]perylene	1330	1410		ug/Kg		105	45 - 145
Benzo[k]fluoranthene	1330	1460		ug/Kg		109	65 - 120
Bis(2-chloroethoxy)methane	1330	1200		ug/Kg		90	55 - 120
Bis(2-chloroethyl)ether	1330	1160		ug/Kg		87	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1380		ug/Kg		104	61 - 133
Butyl benzyl phthalate	1330	1420		ug/Kg		107	61 - 129
Caprolactam	1330	1270		ug/Kg		95	47 - 120
Carbazole	1330	1390		ug/Kg		105	65 - 120
Chrysene	1330	1290		ug/Kg		96	64 - 120
Di-n-butyl phthalate	1330	1450		ug/Kg		109	58 - 130
Di-n-octyl phthalate	1330	1420		ug/Kg		107	57 - 133
Dibenz(a,h)anthracene	1330	1460		ug/Kg		109	54 - 132
Dibenzofuran	1330	1310		ug/Kg		99	63 - 120
Diethyl phthalate	1330	1410		ug/Kg		106	66 - 120
Dimethyl phthalate	1330	1390		ug/Kg		104	65 - 124
Fluoranthene	1330	1360		ug/Kg		102	62 - 120
Fluorene	1330	1320		ug/Kg		99	63 - 120
Hexachlorobenzene	1330	1380		ug/Kg		103	60 - 120
Hexachlorobutadiene	1330	1340		ug/Kg		100	45 - 120
Hexachlorocyclopentadiene	1330	1310		ug/Kg		98	47 - 120
Hexachloroethane	1330	1220		ug/Kg		92	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1430		ug/Kg		107	56 - 134
Isophorone	1330	1290		ug/Kg		97	56 - 120
N-Nitrosodi-n-propylamine	1330	1250		ug/Kg		94	52 - 120
N-Nitrosodiphenylamine	1330	1330		ug/Kg		99	51 - 128
Naphthalene	1330	1190		ug/Kg		89	55 - 120
Nitrobenzene	1330	1190		ug/Kg		89	54 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-738933/2-A
Matrix: Solid
Analysis Batch: 738999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	2670	2420		ug/Kg		91	10 - 120
Phenanthrene	1330	1340		ug/Kg		101	60 - 120
Phenol	1330	1110		ug/Kg		83	53 - 120
Pyrene	1330	1290		ug/Kg		97	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*105*		*26 - 143*
2-Fluorobiphenyl	*95*		*50 - 121*
2-Fluorophenol	*88*		*36 - 120*
Nitrobenzene-d5	*87*		*40 - 121*
p-Terphenyl-d14	*96*		*46 - 143*
Phenol-d5	*91*		*41 - 120*

Lab Sample ID: 480-227296-3 MS
Matrix: Solid
Analysis Batch: 738999

Client Sample ID: MW-4 0.5-2 ft
Prep Type: Total/NA
Prep Batch: 738933

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	ND		1470	1290		ug/Kg	☼	88	58 - 120
bis (2-chloroisopropyl) ether	ND		1470	1100		ug/Kg	☼	75	31 - 120
2,4-Dichlorophenol	ND		1470	1530		ug/Kg	☼	104	45 - 120
2,4-Dimethylphenol	ND		1470	1440		ug/Kg	☼	98	52 - 120
2,4-Dinitrophenol	ND		2930	1590	J	ug/Kg	☼	54	41 - 146
2,4-Dinitrotoluene	ND		1470	1440		ug/Kg	☼	98	63 - 125
2,6-Dinitrotoluene	ND		1470	1400		ug/Kg	☼	95	66 - 120
2-Chloronaphthalene	ND		1470	1350		ug/Kg	☼	92	57 - 120
1,4-Dioxane	ND		1470	681		ug/Kg	☼	46	13 - 120
2,4,5-Trichlorophenol	ND		1470	1390		ug/Kg	☼	95	46 - 120
2-Chlorophenol	ND		1470	1310		ug/Kg	☼	89	43 - 120
2,4,6-Trichlorophenol	ND		1470	1400		ug/Kg	☼	95	41 - 123
2-Methylnaphthalene	ND		1470	1410		ug/Kg	☼	96	55 - 120
2-Methylphenol	ND		1470	1330		ug/Kg	☼	91	48 - 120
2-Nitroaniline	ND		1470	1400		ug/Kg	☼	96	61 - 120
2-Nitrophenol	ND		1470	1430		ug/Kg	☼	97	37 - 120
3,3'-Dichlorobenzidine	ND		1470	1230		ug/Kg	☼	84	37 - 126
3-Nitroaniline	ND		1470	1240		ug/Kg	☼	84	48 - 120
4,6-Dinitro-2-methylphenol	ND		2930	2530		ug/Kg	☼	86	23 - 149
4-Bromophenyl phenyl ether	ND	F2	1470	1430		ug/Kg	☼	97	58 - 120
4-Chloro-3-methylphenol	ND		1470	1510		ug/Kg	☼	103	49 - 125
4-Chloroaniline	ND		1470	1190		ug/Kg	☼	81	38 - 120
4-Chlorophenyl phenyl ether	ND		1470	1450		ug/Kg	☼	99	63 - 124
4-Methylphenol	ND		1470	1420		ug/Kg	☼	97	50 - 120
4-Nitroaniline	ND		1470	1330		ug/Kg	☼	91	47 - 120
4-Nitrophenol	ND		2930	3100		ug/Kg	☼	106	31 - 147
Acenaphthene	92	J	1470	1380		ug/Kg	☼	88	60 - 120
Acenaphthylene	27	J	1470	1440		ug/Kg	☼	96	58 - 121
Acetophenone	ND		1470	1410		ug/Kg	☼	96	47 - 120
Anthracene	250		1470	1550		ug/Kg	☼	89	62 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227296-3 MS
Matrix: Solid
Analysis Batch: 738999

Client Sample ID: MW-4 0.5-2 ft
Prep Type: Total/NA
Prep Batch: 738933

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	ND		1470	1540		ug/Kg	☼	105	60 - 150
Benzaldehyde	ND		1470	1480		ug/Kg	☼	101	10 - 150
Benzo[a]anthracene	500		1470	1780		ug/Kg	☼	87	65 - 120
Benzo[a]pyrene	460		1470	1720		ug/Kg	☼	86	64 - 120
Benzo[b]fluoranthene	570		1470	1850		ug/Kg	☼	87	10 - 150
Benzo[g,h,i]perylene	310	F2	1470	1730		ug/Kg	☼	96	45 - 145
Benzo[k]fluoranthene	240		1470	1520		ug/Kg	☼	87	23 - 150
Bis(2-chloroethoxy)methane	ND		1470	1360		ug/Kg	☼	93	52 - 120
Bis(2-chloroethyl)ether	ND		1470	1240		ug/Kg	☼	85	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1470	1590		ug/Kg	☼	108	61 - 133
Butyl benzyl phthalate	ND	F1	1470	1550		ug/Kg	☼	105	61 - 120
Caprolactam	ND		1470	1400		ug/Kg	☼	95	37 - 133
Carbazole	96	J	1470	1560		ug/Kg	☼	100	59 - 120
Chrysene	520		1470	1690		ug/Kg	☼	80	64 - 120
Di-n-butyl phthalate	ND		1470	1590		ug/Kg	☼	108	58 - 130
Di-n-octyl phthalate	ND		1470	1610		ug/Kg	☼	110	57 - 133
Dibenz(a,h)anthracene	110	J	1470	1610		ug/Kg	☼	103	54 - 132
Dibenzofuran	57	J	1470	1410		ug/Kg	☼	92	62 - 120
Diethyl phthalate	ND		1470	1480		ug/Kg	☼	101	66 - 120
Dimethyl phthalate	ND		1470	1470		ug/Kg	☼	100	65 - 124
Fluoranthene	1100		1470	2080		ug/Kg	☼	69	62 - 120
Fluorene	100	J	1470	1430		ug/Kg	☼	90	63 - 120
Hexachlorobenzene	ND		1470	1510		ug/Kg	☼	103	60 - 120
Hexachlorobutadiene	ND		1470	1470		ug/Kg	☼	100	45 - 120
Hexachlorocyclopentadiene	ND		1470	1350		ug/Kg	☼	92	31 - 120
Hexachloroethane	ND		1470	1260		ug/Kg	☼	86	21 - 120
Indeno[1,2,3-cd]pyrene	270		1470	1740		ug/Kg	☼	100	56 - 134
Isophorone	ND		1470	1440		ug/Kg	☼	98	56 - 120
N-Nitrosodi-n-propylamine	ND		1470	1340		ug/Kg	☼	91	46 - 120
N-Nitrosodiphenylamine	ND		1470	1430		ug/Kg	☼	97	20 - 128
Naphthalene	ND		1470	1340		ug/Kg	☼	91	46 - 120
Nitrobenzene	ND		1470	1290		ug/Kg	☼	88	49 - 120
Pentachlorophenol	ND		2930	2420		ug/Kg	☼	83	10 - 136
Phenanthrene	1000	F2	1470	1930		ug/Kg	☼	62	60 - 122
Phenol	ND		1470	1240		ug/Kg	☼	84	50 - 120
Pyrene	1100	F1 F2	1470	1890	F1	ug/Kg	☼	55	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*104*		*26 - 143*
2-Fluorobiphenyl	*90*		*50 - 121*
2-Fluorophenol	*87*		*36 - 120*
Nitrobenzene-d5	*89*		*40 - 121*
p-Terphenyl-d14	*96*		*46 - 143*
Phenol-d5	*89*		*41 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227296-3 MSD
Matrix: Solid
Analysis Batch: 738999

Client Sample ID: MW-4 0.5-2 ft
Prep Type: Total/NA
Prep Batch: 738933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Biphenyl	ND		1460	1410		ug/Kg	☼	97	58 - 120	9	20
bis (2-chloroisopropyl) ether	ND		1460	1150		ug/Kg	☼	79	31 - 120	4	24
2,4-Dichlorophenol	ND		1460	1450		ug/Kg	☼	100	45 - 120	6	19
2,4-Dimethylphenol	ND		1460	1480		ug/Kg	☼	101	52 - 120	3	42
2,4-Dinitrophenol	ND		2910	1640	J	ug/Kg	☼	56	41 - 146	3	22
2,4-Dinitrotoluene	ND		1460	1380		ug/Kg	☼	95	63 - 125	4	20
2,6-Dinitrotoluene	ND		1460	1470		ug/Kg	☼	101	66 - 120	5	15
2-Chloronaphthalene	ND		1460	1470		ug/Kg	☼	101	57 - 120	8	21
1,4-Dioxane	ND		1460	723		ug/Kg	☼	50	13 - 120	6	50
2,4,5-Trichlorophenol	ND		1460	1460		ug/Kg	☼	100	46 - 120	4	18
2-Chlorophenol	ND		1460	1270		ug/Kg	☼	87	43 - 120	3	25
2,4,6-Trichlorophenol	ND		1460	1500		ug/Kg	☼	103	41 - 123	7	19
2-Methylnaphthalene	ND		1460	1410		ug/Kg	☼	97	55 - 120	0	21
2-Methylphenol	ND		1460	1320		ug/Kg	☼	91	48 - 120	1	27
2-Nitroaniline	ND		1460	1370		ug/Kg	☼	94	61 - 120	2	15
2-Nitrophenol	ND		1460	1420		ug/Kg	☼	98	37 - 120	0	18
3,3'-Dichlorobenzidine	ND		1460	1210		ug/Kg	☼	83	37 - 126	1	25
3-Nitroaniline	ND		1460	1090		ug/Kg	☼	75	48 - 120	13	19
4,6-Dinitro-2-methylphenol	ND		2910	2780		ug/Kg	☼	96	23 - 149	9	15
4-Bromophenyl phenyl ether	ND	F2	1460	1730	F2	ug/Kg	☼	119	58 - 120	19	15
4-Chloro-3-methylphenol	ND		1460	1430		ug/Kg	☼	98	49 - 125	6	27
4-Chloroaniline	ND		1460	1110		ug/Kg	☼	76	38 - 120	7	22
4-Chlorophenyl phenyl ether	ND		1460	1430		ug/Kg	☼	98	63 - 124	2	16
4-Methylphenol	ND		1460	1370		ug/Kg	☼	94	50 - 120	4	24
4-Nitroaniline	ND		1460	1110		ug/Kg	☼	76	47 - 120	18	24
4-Nitrophenol	ND		2910	2680		ug/Kg	☼	92	31 - 147	15	25
Acenaphthene	92	J	1460	1480		ug/Kg	☼	95	60 - 120	7	35
Acenaphthylene	27	J	1460	1490		ug/Kg	☼	100	58 - 121	3	18
Acetophenone	ND		1460	1420		ug/Kg	☼	98	47 - 120	1	20
Anthracene	250		1460	1720		ug/Kg	☼	101	62 - 120	10	15
Atrazine	ND		1460	1370		ug/Kg	☼	94	60 - 150	12	20
Benzaldehyde	ND		1460	1420		ug/Kg	☼	98	10 - 150	4	20
Benzo[a]anthracene	500		1460	2040		ug/Kg	☼	106	65 - 120	14	15
Benzo[a]pyrene	460		1460	1940		ug/Kg	☼	102	64 - 120	12	15
Benzo[b]fluoranthene	570		1460	1990		ug/Kg	☼	97	10 - 150	7	15
Benzo[g,h,i]perylene	310	F2	1460	2080	F2	ug/Kg	☼	122	45 - 145	19	15
Benzo[k]fluoranthene	240		1460	1750		ug/Kg	☼	103	23 - 150	14	22
Bis(2-chloroethoxy)methane	ND		1460	1360		ug/Kg	☼	94	52 - 120	0	17
Bis(2-chloroethyl)ether	ND		1460	1250		ug/Kg	☼	86	45 - 120	1	21
Bis(2-ethylhexyl) phthalate	ND		1460	1710		ug/Kg	☼	118	61 - 133	8	15
Butyl benzyl phthalate	ND	F1	1460	1790	F1	ug/Kg	☼	123	61 - 120	14	16
Caprolactam	ND		1460	1260		ug/Kg	☼	87	37 - 133	10	20
Carbazole	96	J	1460	1480		ug/Kg	☼	95	59 - 120	5	20
Chrysene	520		1460	1960		ug/Kg	☼	99	64 - 120	15	15
Di-n-butyl phthalate	ND		1460	1630		ug/Kg	☼	112	58 - 130	3	15
Di-n-octyl phthalate	ND		1460	1600		ug/Kg	☼	110	57 - 133	1	16
Dibenz(a,h)anthracene	110	J	1460	1780		ug/Kg	☼	115	54 - 132	10	15
Dibenzofuran	57	J	1460	1450		ug/Kg	☼	96	62 - 120	3	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227296-3 MSD
Matrix: Solid
Analysis Batch: 738999

Client Sample ID: MW-4 0.5-2 ft
Prep Type: Total/NA
Prep Batch: 738933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diethyl phthalate	ND		1460	1520		ug/Kg	☼	104	66 - 120	3	15
Dimethyl phthalate	ND		1460	1540		ug/Kg	☼	106	65 - 124	5	15
Fluoranthene	1100		1460	2270		ug/Kg	☼	83	62 - 120	9	15
Fluorene	100	J	1460	1470		ug/Kg	☼	94	63 - 120	3	15
Hexachlorobenzene	ND		1460	1710		ug/Kg	☼	118	60 - 120	12	15
Hexachlorobutadiene	ND		1460	1520		ug/Kg	☼	104	45 - 120	3	44
Hexachlorocyclopentadiene	ND		1460	1650		ug/Kg	☼	113	31 - 120	20	49
Hexachloroethane	ND		1460	1330		ug/Kg	☼	91	21 - 120	6	46
Indeno[1,2,3-cd]pyrene	270		1460	1990		ug/Kg	☼	118	56 - 134	13	15
Isophorone	ND		1460	1420		ug/Kg	☼	98	56 - 120	2	17
N-Nitrosodi-n-propylamine	ND		1460	1360		ug/Kg	☼	94	46 - 120	2	31
N-Nitrosodiphenylamine	ND		1460	1610		ug/Kg	☼	111	20 - 128	12	15
Naphthalene	ND		1460	1370		ug/Kg	☼	94	46 - 120	2	29
Nitrobenzene	ND		1460	1330		ug/Kg	☼	91	49 - 120	3	24
Pentachlorophenol	ND		2910	2540		ug/Kg	☼	87	10 - 136	5	35
Phenanthrene	1000	F2	1460	2320	F2	ug/Kg	☼	89	60 - 122	18	15
Phenol	ND		1460	1180		ug/Kg	☼	81	50 - 120	5	35
Pyrene	1100	F1 F2	1460	2800	F2	ug/Kg	☼	118	61 - 133	39	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*113*		*26 - 143*
2-Fluorobiphenyl	*102*		*50 - 121*
2-Fluorophenol	*85*		*36 - 120*
Nitrobenzene-d5	*93*		*40 - 121*
p-Terphenyl-d14	*115*		*46 - 143*
Phenol-d5	*89*		*41 - 120*

Lab Sample ID: MB 480-739037/1-A
Matrix: Solid
Analysis Batch: 739117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00045	mg/L		02/14/25 13:37	02/17/25 11:04	1
3-Methylphenol	ND		0.010	0.00040	mg/L		02/14/25 13:37	02/17/25 11:04	1
2,4-Dinitrotoluene	ND		0.0050	0.00043	mg/L		02/14/25 13:37	02/17/25 11:04	1
Pyridine	ND		0.025	0.00040	mg/L		02/14/25 13:37	02/17/25 11:04	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		02/14/25 13:37	02/17/25 11:04	1
2,4,6-Trichlorophenol	ND		0.0050	0.00060	mg/L		02/14/25 13:37	02/17/25 11:04	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		02/14/25 13:37	02/17/25 11:04	1
4-Methylphenol	ND		0.010	0.00035	mg/L		02/14/25 13:37	02/17/25 11:04	1
Hexachlorobenzene	ND		0.0050	0.00050	mg/L		02/14/25 13:37	02/17/25 11:04	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		02/14/25 13:37	02/17/25 11:04	1
Hexachloroethane	ND		0.0050	0.00058	mg/L		02/14/25 13:37	02/17/25 11:04	1
Nitrobenzene	ND		0.0050	0.00028	mg/L		02/14/25 13:37	02/17/25 11:04	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		02/14/25 13:37	02/17/25 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*25 - 144*	*02/14/25 13:37*	*02/17/25 11:04*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-739037/1-A
Matrix: Solid
Analysis Batch: 739117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739037

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		53 - 126	02/14/25 13:37	02/17/25 11:04	1
2-Fluorophenol	52		24 - 120	02/14/25 13:37	02/17/25 11:04	1
Nitrobenzene-d5	91		29 - 129	02/14/25 13:37	02/17/25 11:04	1
p-Terphenyl-d14	102		33 - 132	02/14/25 13:37	02/17/25 11:04	1
Phenol-d5	39		10 - 120	02/14/25 13:37	02/17/25 11:04	1

Lab Sample ID: LCS 480-739037/2-A
Matrix: Solid
Analysis Batch: 739117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.0400	0.0268		mg/L		67	42 - 120
3-Methylphenol	0.0400	0.0295		mg/L		74	39 - 120
2,4-Dinitrotoluene	0.0400	0.0376		mg/L		94	69 - 120
Pyridine	0.0800	0.0449		mg/L		56	10 - 120
2,4,5-Trichlorophenol	0.0400	0.0398		mg/L		100	65 - 126
2,4,6-Trichlorophenol	0.0400	0.0383		mg/L		96	64 - 120
2-Methylphenol	0.0400	0.0311		mg/L		78	39 - 120
4-Methylphenol	0.0400	0.0295		mg/L		74	29 - 131
Hexachlorobenzene	0.0400	0.0414		mg/L		103	61 - 120
Hexachlorobutadiene	0.0400	0.0262		mg/L		66	35 - 120
Hexachloroethane	0.0400	0.0251		mg/L		63	33 - 120
Nitrobenzene	0.0400	0.0355		mg/L		89	53 - 123
Pentachlorophenol	0.0800	0.0776		mg/L		97	10 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	106		25 - 144
2-Fluorobiphenyl	97		53 - 126
2-Fluorophenol	53		24 - 120
Nitrobenzene-d5	88		29 - 129
p-Terphenyl-d14	98		33 - 132
Phenol-d5	38		10 - 120

Lab Sample ID: LCSD 480-739037/3-A
Matrix: Solid
Analysis Batch: 739117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 739037

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0400	0.0271		mg/L		68	42 - 120	1	36
3-Methylphenol	0.0400	0.0324		mg/L		81	39 - 120	9	30
2,4-Dinitrotoluene	0.0400	0.0419		mg/L		105	69 - 120	11	20
Pyridine	0.0800	0.0509		mg/L		64	10 - 120	12	49
2,4,5-Trichlorophenol	0.0400	0.0426		mg/L		106	65 - 126	7	18
2,4,6-Trichlorophenol	0.0400	0.0415		mg/L		104	64 - 120	8	19
2-Methylphenol	0.0400	0.0326		mg/L		81	39 - 120	5	27
4-Methylphenol	0.0400	0.0324		mg/L		81	29 - 131	9	24
Hexachlorobenzene	0.0400	0.0416		mg/L		104	61 - 120	1	15
Hexachlorobutadiene	0.0400	0.0271		mg/L		68	35 - 120	3	44

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-739037/3-A
Matrix: Solid
Analysis Batch: 739117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 739037

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachloroethane			0.0400	0.0255		mg/L		64	33 - 120	2	46
Nitrobenzene			0.0400	0.0375		mg/L		94	53 - 123	6	24
Pentachlorophenol			0.0800	0.0826		mg/L		103	10 - 136	6	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*108*		*25 - 144*
2-Fluorobiphenyl	*97*		*53 - 126*
2-Fluorophenol	*54*		*24 - 120*
Nitrobenzene-d5	*94*		*29 - 129*
p-Terphenyl-d14	*102*		*33 - 132*
Phenol-d5	*41*		*10 - 120*

Lab Sample ID: MB 480-739213/1-A
Matrix: Solid
Analysis Batch: 739264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2-Chloronaphthalene	ND		170	28	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
1,4-Dioxane	ND		100	55	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2-Chlorophenol	ND		330	31	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2-Methylnaphthalene	ND		170	34	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2-Methylphenol	ND		170	20	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2-Nitroaniline	ND		330	25	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
2-Nitrophenol	ND		170	48	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
3-Nitroaniline	ND		330	47	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
4-Chloroaniline	ND		170	42	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
4-Methylphenol	ND		330	20	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
4-Nitroaniline	ND		330	89	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
4-Nitrophenol	ND		330	120	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Acenaphthene	ND		170	25	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Acenaphthylene	ND		170	22	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Acetophenone	ND		170	23	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Anthracene	ND		170	42	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Atrazine	ND		170	59	ug/Kg		02/18/25 14:01	02/19/25 13:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-739213/1-A
Matrix: Solid
Analysis Batch: 739264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	ND		170	140	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Benzo[a]anthracene	ND		170	17	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Benzo[a]pyrene	ND		170	25	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Caprolactam	ND		170	51	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Carbazole	ND		170	20	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Chrysene	ND		170	38	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Dibenzofuran	ND		170	20	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Diethyl phthalate	ND		170	22	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Dimethyl phthalate	ND		170	20	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Fluoranthene	ND		170	18	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Fluorene	ND		170	20	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Hexachlorobenzene	ND		170	23	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Hexachlorobutadiene	ND		170	25	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Hexachloroethane	ND		170	22	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Isophorone	ND		170	36	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Naphthalene	ND		170	22	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Nitrobenzene	ND		170	19	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Pentachlorophenol	ND		330	170	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Phenanthrene	ND		170	25	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Phenol	ND		170	26	ug/Kg		02/18/25 14:01	02/19/25 13:33	1
Pyrene	ND		170	20	ug/Kg		02/18/25 14:01	02/19/25 13:33	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14300*	*T J*	*ug/Kg*		*1.81*	*N/A*	*02/18/25 14:01*	*02/19/25 13:33*	*1*
Unknown	*1790*	*T J*	*ug/Kg*		*3.14*	*N/A*	*02/18/25 14:01*	*02/19/25 13:33*	*1*
Unknown	*140*	*T J*	*ug/Kg*		*13.25*	*N/A*	*02/18/25 14:01*	*02/19/25 13:33*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*26 - 143*	*02/18/25 14:01*	*02/19/25 13:33*	*1*
2-Fluorobiphenyl	*87*		*50 - 121*	*02/18/25 14:01*	*02/19/25 13:33*	*1*
2-Fluorophenol	*83*		*36 - 120*	*02/18/25 14:01*	*02/19/25 13:33*	*1*
Nitrobenzene-d5	*83*		*40 - 121*	*02/18/25 14:01*	*02/19/25 13:33*	*1*
p-Terphenyl-d14	*93*		*46 - 143*	*02/18/25 14:01*	*02/19/25 13:33*	*1*
Phenol-d5	*87*		*41 - 120*	*02/18/25 14:01*	*02/19/25 13:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 480-739213/2-A
Matrix: Solid
Analysis Batch: 739264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	1330	1250		ug/Kg		94	59 - 120
bis (2-chloroisopropyl) ether	1330	1060		ug/Kg		79	44 - 120
2,4-Dichlorophenol	1330	1360		ug/Kg		102	61 - 120
2,4-Dimethylphenol	1330	1360		ug/Kg		102	59 - 120
2,4-Dinitrophenol	2670	2910		ug/Kg		109	41 - 146
2,4-Dinitrotoluene	1330	1420		ug/Kg		106	63 - 120
2,6-Dinitrotoluene	1330	1380		ug/Kg		103	66 - 120
2-Chloronaphthalene	1330	1280		ug/Kg		96	57 - 120
1,4-Dioxane	1330	665		ug/Kg		50	23 - 120
2,4,5-Trichlorophenol	1330	1330		ug/Kg		100	59 - 126
2-Chlorophenol	1330	1230		ug/Kg		92	53 - 120
2,4,6-Trichlorophenol	1330	1330		ug/Kg		100	59 - 123
2-Methylnaphthalene	1330	1300		ug/Kg		97	59 - 120
2-Methylphenol	1330	1230		ug/Kg		92	54 - 120
2-Nitroaniline	1330	1270		ug/Kg		95	61 - 120
2-Nitrophenol	1330	1300		ug/Kg		98	56 - 120
3,3'-Dichlorobenzidine	1330	1060		ug/Kg		80	54 - 120
3-Nitroaniline	1330	965		ug/Kg		72	48 - 120
4,6-Dinitro-2-methylphenol	2670	2890		ug/Kg		108	49 - 122
4-Bromophenyl phenyl ether	1330	1350		ug/Kg		101	58 - 120
4-Chloro-3-methylphenol	1330	1380		ug/Kg		104	61 - 120
4-Chloroaniline	1330	981		ug/Kg		74	38 - 120
4-Chlorophenyl phenyl ether	1330	1350		ug/Kg		101	63 - 124
4-Methylphenol	1330	1320		ug/Kg		99	55 - 120
4-Nitroaniline	1330	1350		ug/Kg		101	56 - 120
4-Nitrophenol	2670	3070		ug/Kg		115	43 - 147
Acenaphthene	1330	1290		ug/Kg		97	62 - 120
Acenaphthylene	1330	1360		ug/Kg		102	58 - 121
Acetophenone	1330	1270		ug/Kg		95	54 - 120
Anthracene	1330	1350		ug/Kg		101	62 - 120
Atrazine	1330	1440		ug/Kg		108	60 - 127
Benzaldehyde	1330	1330		ug/Kg		100	10 - 150
Benzo[a]anthracene	1330	1360		ug/Kg		102	65 - 120
Benzo[a]pyrene	1330	1380		ug/Kg		104	64 - 120
Benzo[b]fluoranthene	1330	1450		ug/Kg		108	64 - 120
Benzo[g,h,i]perylene	1330	1470		ug/Kg		110	45 - 145
Benzo[k]fluoranthene	1330	1310		ug/Kg		98	65 - 120
Bis(2-chloroethoxy)methane	1330	1240		ug/Kg		93	55 - 120
Bis(2-chloroethyl)ether	1330	1170		ug/Kg		88	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1380		ug/Kg		103	61 - 133
Butyl benzyl phthalate	1330	1440		ug/Kg		108	61 - 129
Caprolactam	1330	1310		ug/Kg		98	47 - 120
Carbazole	1330	1430		ug/Kg		107	65 - 120
Chrysene	1330	1300		ug/Kg		98	64 - 120
Di-n-butyl phthalate	1330	1440		ug/Kg		108	58 - 130
Di-n-octyl phthalate	1330	1390		ug/Kg		104	57 - 133
Dibenz(a,h)anthracene	1330	1480		ug/Kg		111	54 - 132
Dibenzofuran	1330	1330		ug/Kg		100	63 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-739213/2-A
Matrix: Solid
Analysis Batch: 739264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diethyl phthalate	1330	1460		ug/Kg		109	66 - 120
Dimethyl phthalate	1330	1430		ug/Kg		107	65 - 124
Fluoranthene	1330	1350		ug/Kg		102	62 - 120
Fluorene	1330	1390		ug/Kg		105	63 - 120
Hexachlorobenzene	1330	1400		ug/Kg		105	60 - 120
Hexachlorobutadiene	1330	1370		ug/Kg		103	45 - 120
Hexachlorocyclopentadiene	1330	1330		ug/Kg		100	47 - 120
Hexachloroethane	1330	1200		ug/Kg		90	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1490		ug/Kg		112	56 - 134
Isophorone	1330	1280		ug/Kg		96	56 - 120
N-Nitrosodi-n-propylamine	1330	1230		ug/Kg		93	52 - 120
N-Nitrosodiphenylamine	1330	1330		ug/Kg		100	51 - 128
Naphthalene	1330	1220		ug/Kg		92	55 - 120
Nitrobenzene	1330	1220		ug/Kg		91	54 - 120
Pentachlorophenol	2670	2650		ug/Kg		99	10 - 120
Phenanthrene	1330	1340		ug/Kg		101	60 - 120
Phenol	1330	1140		ug/Kg		85	53 - 120
Pyrene	1330	1320		ug/Kg		99	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*104*		*26 - 143*
2-Fluorobiphenyl	*96*		*50 - 121*
2-Fluorophenol	*88*		*36 - 120*
Nitrobenzene-d5	*92*		*40 - 121*
p-Terphenyl-d14	*96*		*46 - 143*
Phenol-d5	*92*		*41 - 120*

Lab Sample ID: LB 480-738884/1-D
Matrix: Solid
Analysis Batch: 739117

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 739037

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/14/25 13:37	02/17/25 12:22	1
3-Methylphenol	ND		0.040	0.0016	mg/L		02/14/25 13:37	02/17/25 12:22	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/14/25 13:37	02/17/25 12:22	1
Pyridine	ND		0.10	0.0016	mg/L		02/14/25 13:37	02/17/25 12:22	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/14/25 13:37	02/17/25 12:22	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/14/25 13:37	02/17/25 12:22	1
2-Methylphenol	ND		0.020	0.0016	mg/L		02/14/25 13:37	02/17/25 12:22	1
4-Methylphenol	ND		0.040	0.0014	mg/L		02/14/25 13:37	02/17/25 12:22	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/14/25 13:37	02/17/25 12:22	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/14/25 13:37	02/17/25 12:22	1
Hexachloroethane	ND		0.020	0.0023	mg/L		02/14/25 13:37	02/17/25 12:22	1
Nitrobenzene	ND		0.020	0.0011	mg/L		02/14/25 13:37	02/17/25 12:22	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		02/14/25 13:37	02/17/25 12:22	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*25 - 144*	*02/14/25 13:37*	*02/17/25 12:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 480-738884/1-D
Matrix: Solid
Analysis Batch: 739117

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 739037

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		53 - 126	02/14/25 13:37	02/17/25 12:22	1
2-Fluorophenol	52		24 - 120	02/14/25 13:37	02/17/25 12:22	1
Nitrobenzene-d5	89		29 - 129	02/14/25 13:37	02/17/25 12:22	1
p-Terphenyl-d14	102		33 - 132	02/14/25 13:37	02/17/25 12:22	1
Phenol-d5	37		10 - 120	02/14/25 13:37	02/17/25 12:22	1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-738872/1-A
Matrix: Solid
Analysis Batch: 738978

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
4,4'-DDT	ND		1.7	0.39	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Aldrin	ND		1.7	0.41	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
alpha-BHC	ND		1.7	0.30	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
cis-Chlordane	ND		1.7	0.83	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
beta-BHC	ND		1.7	0.30	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
delta-BHC	ND		1.7	0.31	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Dieldrin	ND		1.7	0.40	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Endosulfan I	ND		1.7	0.32	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Endosulfan II	ND		1.7	0.30	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Endrin	ND		1.7	0.33	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Endrin aldehyde	ND		1.7	0.43	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Endrin ketone	ND		1.7	0.41	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
gamma-BHC (Lindane)	ND		1.7	0.31	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
trans-Chlordane	ND		1.7	0.53	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Heptachlor	ND		1.7	0.36	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Methoxychlor	ND		1.7	0.34	ug/Kg		02/13/25 06:37	02/14/25 08:46	1
Toxaphene	ND		17	9.7	ug/Kg		02/13/25 06:37	02/14/25 08:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		45 - 120	02/13/25 06:37	02/14/25 08:46	1
DCB Decachlorobiphenyl	94		45 - 120	02/13/25 06:37	02/14/25 08:46	1
Tetrachloro-m-xylene	69		30 - 124	02/13/25 06:37	02/14/25 08:46	1
Tetrachloro-m-xylene	71		30 - 124	02/13/25 06:37	02/14/25 08:46	1

Lab Sample ID: LCS 480-738872/2-A
Matrix: Solid
Analysis Batch: 738978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	14.7		ug/Kg		88	56 - 120
4,4'-DDE	16.7	12.4		ug/Kg		74	44 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-738872/2-A
Matrix: Solid
Analysis Batch: 738978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDT	16.7	12.1		ug/Kg		73	38 - 120
Aldrin	16.7	12.5		ug/Kg		75	38 - 120
alpha-BHC	16.7	11.0		ug/Kg		66	39 - 120
cis-Chlordane	16.7	10.7		ug/Kg		64	47 - 120
beta-BHC	16.7	13.6		ug/Kg		82	40 - 120
delta-BHC	16.7	13.7		ug/Kg		82	45 - 120
Dieldrin	16.7	14.6		ug/Kg		88	58 - 120
Endosulfan I	16.7	14.1		ug/Kg		84	49 - 120
Endosulfan II	16.7	14.8		ug/Kg		89	55 - 120
Endosulfan sulfate	16.7	14.5		ug/Kg		87	49 - 124
Endrin	16.7	14.5		ug/Kg		87	58 - 120
Endrin aldehyde	16.7	11.9		ug/Kg		71	37 - 121
Endrin ketone	16.7	14.3		ug/Kg		86	46 - 123
gamma-BHC (Lindane)	16.7	12.8		ug/Kg		77	50 - 120
trans-Chlordane	16.7	10.6		ug/Kg		64	48 - 120
Heptachlor	16.7	14.4		ug/Kg		87	50 - 120
Heptachlor epoxide	16.7	15.0		ug/Kg		90	50 - 120
Methoxychlor	16.7	13.4		ug/Kg		81	58 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*45 - 120*
DCB Decachlorobiphenyl	*94*		*45 - 120*
Tetrachloro-m-xylene	*75*		*30 - 124*
Tetrachloro-m-xylene	*74*		*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-738874/1-A
Matrix: Solid
Analysis Batch: 738973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg		02/13/25 06:45	02/14/25 11:32	1
PCB-1221	ND		0.25	0.049	mg/Kg		02/13/25 06:45	02/14/25 11:32	1
PCB-1232	ND		0.25	0.049	mg/Kg		02/13/25 06:45	02/14/25 11:32	1
PCB-1242	ND		0.25	0.049	mg/Kg		02/13/25 06:45	02/14/25 11:32	1
PCB-1248	ND		0.25	0.049	mg/Kg		02/13/25 06:45	02/14/25 11:32	1
PCB-1254	ND		0.25	0.12	mg/Kg		02/13/25 06:45	02/14/25 11:32	1
PCB-1260	ND		0.25	0.12	mg/Kg		02/13/25 06:45	02/14/25 11:32	1
PCB-1262	ND		0.25	0.12	mg/Kg		02/13/25 06:45	02/14/25 11:32	1
PCB-1268	ND		0.25	0.12	mg/Kg		02/13/25 06:45	02/14/25 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*60 - 154*	*02/13/25 06:45*	*02/14/25 11:32*	*1*
Tetrachloro-m-xylene	*114*		*60 - 154*	*02/13/25 06:45*	*02/14/25 11:32*	*1*
DCB Decachlorobiphenyl	*117*		*65 - 174*	*02/13/25 06:45*	*02/14/25 11:32*	*1*
DCB Decachlorobiphenyl	*131*		*65 - 174*	*02/13/25 06:45*	*02/14/25 11:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-738874/2-A
Matrix: Solid
Analysis Batch: 738973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738874

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			2.50	2.95		mg/Kg		118	51 - 185		
PCB-1260			2.50	3.01		mg/Kg		120	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*103*		*60 - 154*
Tetrachloro-m-xylene	*130*		*60 - 154*
DCB Decachlorobiphenyl	*129*		*65 - 174*
DCB Decachlorobiphenyl	*136*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-738873/1-A
Matrix: Solid
Analysis Batch: 739283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738873

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.3	ug/Kg		02/13/25 06:44	02/19/25 13:22	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg		02/13/25 06:44	02/19/25 13:22	1
2,4-D	ND		17	11	ug/Kg		02/13/25 06:44	02/19/25 13:22	1
Dichlorprop	ND		17	8.3	ug/Kg		02/13/25 06:44	02/19/25 13:22	1
Pentachlorophenol	ND		17	5.4	ug/Kg		02/13/25 06:44	02/19/25 13:22	1
Picloram	ND		17	7.2	ug/Kg		02/13/25 06:44	02/19/25 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*02/13/25 06:44*	*02/19/25 13:22*	*1*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*02/13/25 06:44*	*02/19/25 13:22*	*1*

Lab Sample ID: LCS 480-738873/2-A
Matrix: Solid
Analysis Batch: 739283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738873

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T			66.7	47.5		ug/Kg		71	41 - 120		
Silvex (2,4,5-TP)			66.7	48.0		ug/Kg		72	39 - 125		
2,4-D			66.7	48.4		ug/Kg		73	40 - 120		
Dichlorprop			66.7	50.6		ug/Kg		76	34 - 121		
Pentachlorophenol			66.7	19.8		ug/Kg		30	10 - 120		
Picloram			66.7	40.3		ug/Kg		60	22 - 149		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-644982/1-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoropentanoic acid (PFPeA)	ND		0.25	0.063	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorohexanoic acid (PFHxA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoroheptanoic acid (PFHpA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorooctanoic acid (PFOA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorononanoic acid (PFNA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorodecanoic acid (PFDA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoroundecanoic acid (PFUnA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorododecanoic acid (PFDoA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorononanesulfonic acid (PFNS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.3	0.31	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.3	0.31	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.25	0.063	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.25	0.063	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-644982/1-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.25	0.063	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.63	0.16	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.1	0.78	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.1	0.78	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.25	0.063	ug/Kg		02/17/25 08:26	02/20/25 12:04	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95.5*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C5 PFPeA	*94.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C5 PFHxA	*95.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C4 PFHpA	*96.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C8 PFOA	*83.8*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C9 PFNA	*93.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C6 PFDA	*89.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C7 PFUnA	*82.8*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C2 PFTeDA	*60.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C3 PFBS	*87.7*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C3 PFHxS	*88.1*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C8 PFOS	*94.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C8 PFOSA	*85.9*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
d3-NMeFOSAA	*81.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
d5-NEtFOSAA	*82.5*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
M2-4:2 FTS	*89.1*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
M2-6:2 FTS	*89.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
M2-8:2 FTS	*84.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C3 HFPO-DA	*99.7*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
d7-N-MeFOSE-M	*26.7*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
d9-N-EtFOSE-M	*23.2*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
d5-NEtPFOSA	*58.3*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
D3-NMeFOSA	*66.4*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C2-PFDoDA	*73.8*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*

Lab Sample ID: LCS 240-644982/3-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	6.25	6.85		ug/Kg		110	40 - 150
Perfluoropentanoic acid (PFPeA)	3.13	3.53		ug/Kg		113	40 - 150
Perfluorohexanoic acid (PFHxA)	1.56	1.72		ug/Kg		110	40 - 150
Perfluoroheptanoic acid (PFHpA)	1.56	1.63		ug/Kg		105	40 - 150
Perfluorooctanoic acid (PFOA)	1.56	1.67		ug/Kg		107	40 - 150
Perfluorononanoic acid (PFNA)	1.56	1.62		ug/Kg		103	40 - 150
Perfluorodecanoic acid (PFDA)	1.56	1.60		ug/Kg		102	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-644982/3-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	1.56	1.65		ug/Kg		106	40 - 150
Perfluorododecanoic acid (PFDoA)	1.56	1.67		ug/Kg		107	40 - 150
Perfluorotridecanoic acid (PFTrDA)	1.56	1.64		ug/Kg		105	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	1.56	1.72		ug/Kg		110	40 - 150
Perfluorobutanesulfonic acid (PFBS)	1.39	1.45		ug/Kg		105	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.47	1.60		ug/Kg		109	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.57		ug/Kg		111	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.49	1.60		ug/Kg		107	40 - 150
Perfluorooctanesulfonic acid (PFOS)	1.45	1.47		ug/Kg		101	40 - 150
Perfluorononanesulfonic acid (PFNS)	1.50	1.49		ug/Kg		99	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	1.52	1.41		ug/Kg		93	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	5.86	6.16		ug/Kg		105	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.95	5.88		ug/Kg		99	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.00	6.14		ug/Kg		102	40 - 150
Perfluorooctanesulfonamide (PFOSA)	1.56	1.70		ug/Kg		109	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.56	1.63		ug/Kg		104	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.56	1.74		ug/Kg		111	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.56	1.67		ug/Kg		107	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.56	1.71		ug/Kg		109	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	15.6	15.7		ug/Kg		101	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	15.6	15.6		ug/Kg		100	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.25	6.83		ug/Kg		109	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.91	6.28		ug/Kg		106	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.13	3.49		ug/Kg		112	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.13	3.36		ug/Kg		107	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.84	5.88		ug/Kg		101	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	5.90	5.82		ug/Kg		99	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-644982/3-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.79	2.96		ug/Kg		106	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.81	8.72		ug/Kg		112	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	39.1	39.8		ug/Kg		102	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	39.1	37.5		ug/Kg		96	40 - 150
Perfluorodecanesulfonic acid (PFDS)	1.51	1.54		ug/Kg		102	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.13	3.69		ug/Kg		118	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*95.3*		*20 - 150*
13C5 PFPeA	*95.4*		*20 - 150*
13C5 PFHxA	*95.8*		*20 - 150*
13C4 PFHpA	*99.0*		*20 - 150*
13C8 PFOA	*91.6*		*20 - 150*
13C9 PFNA	*94.2*		*20 - 150*
13C6 PFDA	*94.4*		*20 - 150*
13C7 PFUnA	*92.3*		*20 - 150*
13C2 PFTeDA	*81.4*		*20 - 150*
13C3 PFBS	*90.7*		*20 - 150*
13C3 PFHxS	*90.6*		*20 - 150*
13C8 PFOS	*99.4*		*20 - 150*
13C8 PFOSA	*94.9*		*20 - 150*
d3-NMeFOSAA	*89.5*		*20 - 150*
d5-NEtFOSAA	*88.3*		*20 - 150*
M2-4:2 FTS	*89.6*		*20 - 150*
M2-6:2 FTS	*87.9*		*20 - 150*
M2-8:2 FTS	*84.4*		*20 - 150*
13C3 HFPO-DA	*101*		*20 - 150*
d7-N-MeFOSE-M	*66.2*		*20 - 150*
d9-N-EtFOSE-M	*59.8*		*20 - 150*
d5-NEtPFOSA	*64.2*		*20 - 150*
D3-NMeFOSA	*71.4*		*20 - 150*
13C2-PFDoDA	*85.7*		*20 - 150*

Lab Sample ID: LLCS 240-644982/2-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.587		ug/Kg		117	40 - 150
Perfluoropentanoic acid (PFPeA)	0.250	0.307		ug/Kg		123	40 - 150
Perfluorohexanoic acid (PFHxA)	0.125	0.146		ug/Kg		117	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.125	0.152		ug/Kg		121	40 - 150
Perfluorooctanoic acid (PFOA)	0.125	0.144		ug/Kg		115	40 - 150
Perfluorononanoic acid (PFNA)	0.125	0.142		ug/Kg		113	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-644982/2-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanoic acid (PFDA)	0.125	0.137		ug/Kg		110	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.125	0.147		ug/Kg		118	40 - 150
Perfluorododecanoic acid (PFDoA)	0.125	0.146		ug/Kg		117	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.125	0.143		ug/Kg		115	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.125	0.144		ug/Kg		116	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.111	0.126	J	ug/Kg		114	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.118	0.139		ug/Kg		119	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.114	0.143		ug/Kg		126	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.119	0.138		ug/Kg		116	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.116	0.153		ug/Kg		131	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.120	0.124	J	ug/Kg		103	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.121	0.111	J	ug/Kg		92	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.492	J	ug/Kg		105	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.534		ug/Kg		112	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.542		ug/Kg		113	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.125	0.150		ug/Kg		120	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.125	0.154		ug/Kg		123	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.125	0.164		ug/Kg		131	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.125	0.129	J	ug/Kg		103	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.125	0.135		ug/Kg		108	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.56		ug/Kg		125	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.36		ug/Kg		109	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.500	0.564		ug/Kg		113	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.473	0.542		ug/Kg		115	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.296		ug/Kg		118	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.292		ug/Kg		117	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.467	0.425	J	ug/Kg		91	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-644982/2-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			0.472	0.418	J	ug/Kg		89	40 - 150		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			0.223	0.253		ug/Kg		113	40 - 150		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			0.625	0.704		ug/Kg		113	40 - 150		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			3.13	3.32		ug/Kg		106	40 - 150		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			3.13	2.92	J	ug/Kg		94	40 - 150		
Perfluorodecanesulfonic acid (PFDS)			0.121	0.127	J	ug/Kg		106	40 - 150		
Perfluoro-3-methoxypropanoic acid (PFMPA)			0.250	0.299		ug/Kg		120	40 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*95.7*		*20 - 150*
13C5 PFPeA	*95.2*		*20 - 150*
13C5 PFHxA	*93.6*		*20 - 150*
13C4 PFHpA	*93.4*		*20 - 150*
13C8 PFOA	*83.9*		*20 - 150*
13C9 PFNA	*85.1*		*20 - 150*
13C6 PFDA	*83.6*		*20 - 150*
13C7 PFUnA	*79.8*		*20 - 150*
13C2 PFTeDA	*65.5*		*20 - 150*
13C3 PFBS	*89.6*		*20 - 150*
13C3 PFHxS	*84.7*		*20 - 150*
13C8 PFOS	*88.2*		*20 - 150*
13C8 PFOSA	*88.9*		*20 - 150*
d3-NMeFOSAA	*77.5*		*20 - 150*
d5-NEtFOSAA	*77.5*		*20 - 150*
M2-4:2 FTS	*95.0*		*20 - 150*
M2-6:2 FTS	*88.5*		*20 - 150*
M2-8:2 FTS	*75.1*		*20 - 150*
13C3 HFPO-DA	*100*		*20 - 150*
d7-N-MeFOSE-M	*33.7*		*20 - 150*
d9-N-EtFOSE-M	*30.5*		*20 - 150*
d5-NEtPFOSA	*56.2*		*20 - 150*
D3-NMeFOSA	*61.6*		*20 - 150*
13C2-PFDoDA	*74.6*		*20 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-738994/1-A
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.2	8.8	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Antimony	ND		15.3	0.54	mg/Kg		02/14/25 12:34	02/17/25 16:34	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-738994/1-A
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.90	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Barium	ND		0.51	0.14	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Beryllium	ND		0.20	0.041	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Cadmium	ND		0.20	0.071	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Calcium	ND		50.9	27.5	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Chromium	ND		0.51	0.37	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Cobalt	ND		0.51	0.10	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Copper	ND		1.0	0.58	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Iron	ND		10.2	8.6	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Lead	ND		1.0	0.47	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Magnesium	ND		20.4	8.6	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Manganese	ND		1.0	0.29	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Nickel	ND		5.1	0.25	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Potassium	ND		30.6	24.7	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Selenium	ND		4.1	0.81	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Silver	ND		0.61	0.20	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Sodium	ND		143	62.4	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Thallium	ND		6.1	0.77	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Vanadium	ND		0.51	0.13	mg/Kg		02/14/25 12:34	02/17/25 16:34	1
Zinc	ND		2.0	1.0	mg/Kg		02/14/25 12:34	02/17/25 16:34	1

Lab Sample ID: LCSSRM 480-738994/2-A
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738994

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	142	107.0		mg/Kg		75.3	73.2 - 104.2
Nickel	117	133.6		mg/Kg		114.2	108.5 - 156.4

Lab Sample ID: LCSSRM 480-738994/2-A
Matrix: Solid
Analysis Batch: 739248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738994

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	9529		mg/Kg		124.1	47.4 - 130.2
Antimony	201	78.29		mg/Kg		38.9	0.06 - 100.0
Arsenic	181	140.7		mg/Kg		77.7	66.3 - 97.8
Barium	211	185.9		mg/Kg		88.1	73.9 - 107.1
Beryllium	270	244.5		mg/Kg		90.5	73.0 - 104.4
Cadmium	221	184.3		mg/Kg		83.4	70.6 - 101.8
Calcium	4280	4301		mg/Kg		100.5	77.3 - 111.0
Chromium	149	138.8		mg/Kg		93.2	71.8 - 105.4

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-738994/2-A
Matrix: Solid
Analysis Batch: 739248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738994

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Copper	264	239.6		mg/Kg		90.8	73.5 - 104.2
Iron	7360	7469		mg/Kg		101.5	55.4 - 130.3
Lead	106	109.3		mg/Kg		103.2	76.1 - 109.4
Magnesium	2170	2158		mg/Kg		99.5	68.7 - 112.0
Manganese	270	247.5		mg/Kg		91.7	73.0 - 107.8
Potassium	2340	2547		mg/Kg		108.8	62.8 - 113.7
Selenium	139	106.2		mg/Kg		76.4	70.0 - 107.9
Silver	59.9	54.03		mg/Kg		90.2	72.8 - 110.7
Sodium	306	306.4		mg/Kg		100.1	66.0 - 113.4
Thallium	205	194.2		mg/Kg		94.7	71.7 - 106.8
Zinc	398	355.2		mg/Kg		89.3	68.8 - 104.5

Lab Sample ID: MB 480-739009/2-A
Matrix: Solid
Analysis Batch: 739145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/15/25 08:21	02/17/25 14:29	1
Barium	ND		1.0	0.10	mg/L		02/15/25 08:21	02/17/25 14:29	1
Cadmium	ND		0.0020	0.00050	mg/L		02/15/25 08:21	02/17/25 14:29	1
Chromium	ND		0.020	0.010	mg/L		02/15/25 08:21	02/17/25 14:29	1
Lead	ND		0.020	0.0030	mg/L		02/15/25 08:21	02/17/25 14:29	1
Selenium	ND		0.025	0.0087	mg/L		02/15/25 08:21	02/17/25 14:29	1
Silver	ND		0.0060	0.0017	mg/L		02/15/25 08:21	02/17/25 14:29	1

Lab Sample ID: LCS 480-739009/3-A
Matrix: Solid
Analysis Batch: 739145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739009

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.01	1.01		mg/L		100	80 - 120
Barium	1.00	0.989	J	mg/L		99	80 - 120
Cadmium	0.500	0.491		mg/L		98	80 - 120
Chromium	0.499	0.474		mg/L		95	80 - 120
Lead	0.500	0.535		mg/L		107	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Silver	0.0500	0.0528		mg/L		106	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 480-738884/1-B
Matrix: Solid
Analysis Batch: 739145

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 739009

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/15/25 08:21	02/17/25 14:21	1
Barium	ND		1.0	0.10	mg/L		02/15/25 08:21	02/17/25 14:21	1
Cadmium	ND		0.0020	0.00050	mg/L		02/15/25 08:21	02/17/25 14:21	1
Chromium	ND		0.020	0.010	mg/L		02/15/25 08:21	02/17/25 14:21	1
Lead	ND		0.020	0.0030	mg/L		02/15/25 08:21	02/17/25 14:21	1
Selenium	ND		0.025	0.0087	mg/L		02/15/25 08:21	02/17/25 14:21	1
Silver	ND		0.0060	0.0017	mg/L		02/15/25 08:21	02/17/25 14:21	1

Lab Sample ID: 480-227296-11 MS
Matrix: Solid
Analysis Batch: 739145

Client Sample ID: RISB-2 1-4 ft
Prep Type: TCLP
Prep Batch: 739009

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.012	J	1.01	1.07		mg/L		105	75 - 125
Barium	0.40	J	1.00	1.47		mg/L		107	75 - 125
Cadmium	0.0090		0.500	0.534		mg/L		105	75 - 125
Chromium	ND		0.499	0.493		mg/L		99	75 - 125
Lead	9.1		0.500	10.83	4	mg/L		337	75 - 125
Selenium	ND		1.00	1.06		mg/L		106	75 - 125
Silver	ND		0.0500	0.0571		mg/L		114	75 - 125

Lab Sample ID: 480-227296-11 MSD
Matrix: Solid
Analysis Batch: 739145

Client Sample ID: RISB-2 1-4 ft
Prep Type: TCLP
Prep Batch: 739009

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.012	J	1.01	1.00		mg/L		99	75 - 125	6	20
Barium	0.40	J	1.00	1.40		mg/L		99	75 - 125	5	20
Cadmium	0.0090		0.500	0.500		mg/L		98	75 - 125	7	20
Chromium	ND		0.499	0.456		mg/L		91	75 - 125	8	20
Lead	9.1		0.500	10.38	4	mg/L		247	75 - 125	4	20
Selenium	ND		1.00	0.996		mg/L		100	75 - 125	7	20
Silver	ND		0.0500	0.0541		mg/L		108	75 - 125	5	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-739028/2-A
Matrix: Solid
Analysis Batch: 739144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/14/25 13:14	02/14/25 16:21	1

Lab Sample ID: LCS 480-739028/3-A
Matrix: Solid
Analysis Batch: 739144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00670	0.00699		mg/L		104	80 - 120

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 480-738884/1-C
Matrix: Solid
Analysis Batch: 739144

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 739028

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/14/25 13:14	02/14/25 16:20	1

Lab Sample ID: 480-227296-11 MS
Matrix: Solid
Analysis Batch: 739144

Client Sample ID: RISB-2 1-4 ft
Prep Type: TCLP
Prep Batch: 739028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00010	J	0.00670	0.00687		mg/L		101	80 - 120

Lab Sample ID: 480-227296-11 MSD
Matrix: Solid
Analysis Batch: 739144

Client Sample ID: RISB-2 1-4 ft
Prep Type: TCLP
Prep Batch: 739028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00010	J	0.00670	0.00678		mg/L		100	80 - 120	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-738987/1-A
Matrix: Solid
Analysis Batch: 739060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0047	mg/Kg		02/14/25 10:25	02/14/25 14:45	1

Lab Sample ID: LCSSRM 480-738987/2-A ^10
Matrix: Solid
Analysis Batch: 739060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738987

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	16.66		mg/Kg		69.4	55.8 - 109.6

Lab Sample ID: 480-227296-1 MS
Matrix: Solid
Analysis Batch: 739060

Client Sample ID: TP-28 0-2 ft
Prep Type: Total/NA
Prep Batch: 738987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.32	F1	0.366	0.602	F1	mg/Kg	☼	78	80 - 120

Lab Sample ID: 480-227296-1 MSD
Matrix: Solid
Analysis Batch: 739060

Client Sample ID: TP-28 0-2 ft
Prep Type: Total/NA
Prep Batch: 738987

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.32	F1	0.336	0.610		mg/Kg	☼	88	80 - 120	1	20

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-739252/1
Matrix: Solid
Analysis Batch: 739252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-739517/1-A
Matrix: Solid
Analysis Batch: 739604

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		02/24/25 14:10	02/25/25 12:23	1

Lab Sample ID: LCS 480-739517/2-A
Matrix: Solid
Analysis Batch: 739604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Reactive	1000	525.8		mg/Kg		53	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-739518/1-A
Matrix: Solid
Analysis Batch: 739587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		02/24/25 14:10	02/25/25 12:52	1

Lab Sample ID: LCS 480-739518/2-A
Matrix: Solid
Analysis Batch: 739587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	580	140.3		mg/Kg		24	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-739241/1
Matrix: Solid
Analysis Batch: 739241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: 480-227296-11 DU
Matrix: Solid
Analysis Batch: 739241

Client Sample ID: RISB-2 1-4 ft
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.9	HF	7.8		SU		0.9	5
Temperature	16.5	HF	16.8		Degrees C		2	10

GC/MS VOA

Prep Batch: 738858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	5035A_L	
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	5035A_L	
MB 480-738858/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-738858/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Leach Batch: 738886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	TCLP	Solid	1311	
480-227296-12	RISB-3 0.5-3 ft	TCLP	Solid	1311	
LB 480-738886/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 738939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	8260C	738858
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	8260C	738858
MB 480-738858/3-A	Method Blank	Total/NA	Solid	8260C	738858
LCS 480-738858/1-A	Lab Control Sample	Total/NA	Solid	8260C	738858

Analysis Batch: 739017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	TCLP	Solid	8260C	738886
480-227296-12	RISB-3 0.5-3 ft	TCLP	Solid	8260C	738886
LB 480-738886/1-A	Method Blank	TCLP	Solid	8260C	738886
MB 480-739017/9	Method Blank	Total/NA	Solid	8260C	
LCS 480-739017/6	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 480-739017/7	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 738884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	TCLP	Solid	1311	
480-227296-12	RISB-3 0.5-3 ft	TCLP	Solid	1311	
LB 480-738884/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 738933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	3550C	
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	3550C	
MB 480-738933/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-738933/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227296-3 MS	MW-4 0.5-2 ft	Total/NA	Solid	3550C	
480-227296-3 MSD	MW-4 0.5-2 ft	Total/NA	Solid	3550C	

Analysis Batch: 738999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	8270D	738933
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	8270D	738933
MB 480-738933/1-A	Method Blank	Total/NA	Solid	8270D	738933
LCS 480-738933/2-A	Lab Control Sample	Total/NA	Solid	8270D	738933
480-227296-3 MS	MW-4 0.5-2 ft	Total/NA	Solid	8270D	738933

GC/MS Semi VOA (Continued)

Analysis Batch: 738999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-3 MSD	MW-4 0.5-2 ft	Total/NA	Solid	8270D	738933

Prep Batch: 739037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	TCLP	Solid	3510C	738884
480-227296-12	RISB-3 0.5-3 ft	TCLP	Solid	3510C	738884
LB 480-738884/1-D	Method Blank	TCLP	Solid	3510C	738884
MB 480-739037/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-739037/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-739037/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 739117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	TCLP	Solid	8270D	739037
480-227296-12	RISB-3 0.5-3 ft	TCLP	Solid	8270D	739037
LB 480-738884/1-D	Method Blank	TCLP	Solid	8270D	739037
MB 480-739037/1-A	Method Blank	Total/NA	Solid	8270D	739037
LCS 480-739037/2-A	Lab Control Sample	Total/NA	Solid	8270D	739037
LCSD 480-739037/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	739037

Prep Batch: 739213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-2	TP-28 5-7 ft	Total/NA	Solid	3550C	
480-227296-4	MW-4 5-8 ft	Total/NA	Solid	3550C	
480-227296-5	MW-4 12-15 ft	Total/NA	Solid	3550C	
480-227296-6	SS-7	Total/NA	Solid	3550C	
480-227296-7	TP-30 2-3 ft	Total/NA	Solid	3550C	
480-227296-8	MW-1 1.5-4.25 ft	Total/NA	Solid	3550C	
480-227296-9	MW-1 5-7 ft	Total/NA	Solid	3550C	
480-227296-10	MW-1 12-15 ft	Total/NA	Solid	3550C	
MB 480-739213/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739213/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 739264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-2	TP-28 5-7 ft	Total/NA	Solid	8270D	739213
480-227296-4	MW-4 5-8 ft	Total/NA	Solid	8270D	739213
480-227296-5	MW-4 12-15 ft	Total/NA	Solid	8270D	739213
480-227296-6	SS-7	Total/NA	Solid	8270D	739213
480-227296-7	TP-30 2-3 ft	Total/NA	Solid	8270D	739213
480-227296-8	MW-1 1.5-4.25 ft	Total/NA	Solid	8270D	739213
480-227296-9	MW-1 5-7 ft	Total/NA	Solid	8270D	739213
480-227296-10	MW-1 12-15 ft	Total/NA	Solid	8270D	739213
MB 480-739213/1-A	Method Blank	Total/NA	Solid	8270D	739213
LCS 480-739213/2-A	Lab Control Sample	Total/NA	Solid	8270D	739213

GC Semi VOA

Prep Batch: 738872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 738872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-2	TP-28 5-7 ft	Total/NA	Solid	3550C	
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	3550C	
480-227296-4	MW-4 5-8 ft	Total/NA	Solid	3550C	
480-227296-5	MW-4 12-15 ft	Total/NA	Solid	3550C	
480-227296-6	SS-7	Total/NA	Solid	3550C	
480-227296-7	TP-30 2-3 ft	Total/NA	Solid	3550C	
480-227296-8	MW-1 1.5-4.25 ft	Total/NA	Solid	3550C	
480-227296-9	MW-1 5-7 ft	Total/NA	Solid	3550C	
480-227296-10	MW-1 12-15 ft	Total/NA	Solid	3550C	
MB 480-738872/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-738872/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 738873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	8151A	
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	8151A	
MB 480-738873/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-738873/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Prep Batch: 738874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	3550C	
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	3550C	
480-227296-11	RISB-2 1-4 ft	Total/NA	Solid	3550C	
480-227296-12	RISB-3 0.5-3 ft	Total/NA	Solid	3550C	
MB 480-738874/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-738874/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 738973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	8082A	738874
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	8082A	738874
480-227296-11	RISB-2 1-4 ft	Total/NA	Solid	8082A	738874
480-227296-12	RISB-3 0.5-3 ft	Total/NA	Solid	8082A	738874
MB 480-738874/1-A	Method Blank	Total/NA	Solid	8082A	738874
LCS 480-738874/2-A	Lab Control Sample	Total/NA	Solid	8082A	738874

Analysis Batch: 738978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	8081B	738872
480-227296-2	TP-28 5-7 ft	Total/NA	Solid	8081B	738872
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	8081B	738872
480-227296-4	MW-4 5-8 ft	Total/NA	Solid	8081B	738872
480-227296-5	MW-4 12-15 ft	Total/NA	Solid	8081B	738872
480-227296-6	SS-7	Total/NA	Solid	8081B	738872
480-227296-7	TP-30 2-3 ft	Total/NA	Solid	8081B	738872
480-227296-8	MW-1 1.5-4.25 ft	Total/NA	Solid	8081B	738872
480-227296-9	MW-1 5-7 ft	Total/NA	Solid	8081B	738872
480-227296-10	MW-1 12-15 ft	Total/NA	Solid	8081B	738872
MB 480-738872/1-A	Method Blank	Total/NA	Solid	8081B	738872
LCS 480-738872/2-A	Lab Control Sample	Total/NA	Solid	8081B	738872

QC Association Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

GC Semi VOA

Analysis Batch: 739283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	8151A	738873
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	8151A	738873
MB 480-738873/1-A	Method Blank	Total/NA	Solid	8151A	738873
LCS 480-738873/2-A	Lab Control Sample	Total/NA	Solid	8151A	738873

LCMS

Prep Batch: 644982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	1633 Shake	
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	1633 Shake	
MB 240-644982/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-644982/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-644982/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 645517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	1633	644982
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	1633	644982
MB 240-644982/1-A	Method Blank	Total/NA	Solid	1633	644982
LCS 240-644982/3-A	Lab Control Sample	Total/NA	Solid	1633	644982
LLCS 240-644982/2-A	Lab Control Sample	Total/NA	Solid	1633	644982

Metals

Leach Batch: 738884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	TCLP	Solid	1311	
480-227296-12	RISB-3 0.5-3 ft	TCLP	Solid	1311	
LB 480-738884/1-B	Method Blank	TCLP	Solid	1311	
LB 480-738884/1-C	Method Blank	TCLP	Solid	1311	
480-227296-11 MS	RISB-2 1-4 ft	TCLP	Solid	1311	
480-227296-11 MSD	RISB-2 1-4 ft	TCLP	Solid	1311	

Prep Batch: 738987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	7471B	
480-227296-2	TP-28 5-7 ft	Total/NA	Solid	7471B	
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	7471B	
480-227296-4	MW-4 5-8 ft	Total/NA	Solid	7471B	
480-227296-5	MW-4 12-15 ft	Total/NA	Solid	7471B	
480-227296-6	SS-7	Total/NA	Solid	7471B	
480-227296-7	TP-30 2-3 ft	Total/NA	Solid	7471B	
480-227296-8	MW-1 1.5-4.25 ft	Total/NA	Solid	7471B	
480-227296-9	MW-1 5-7 ft	Total/NA	Solid	7471B	
480-227296-10	MW-1 12-15 ft	Total/NA	Solid	7471B	
MB 480-738987/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-738987/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-227296-1 MS	TP-28 0-2 ft	Total/NA	Solid	7471B	
480-227296-1 MSD	TP-28 0-2 ft	Total/NA	Solid	7471B	

Metals

Prep Batch: 738994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	3050B	
480-227296-2	TP-28 5-7 ft	Total/NA	Solid	3050B	
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	3050B	
480-227296-4	MW-4 5-8 ft	Total/NA	Solid	3050B	
480-227296-5	MW-4 12-15 ft	Total/NA	Solid	3050B	
480-227296-6	SS-7	Total/NA	Solid	3050B	
480-227296-7	TP-30 2-3 ft	Total/NA	Solid	3050B	
480-227296-8	MW-1 1.5-4.25 ft	Total/NA	Solid	3050B	
480-227296-9	MW-1 5-7 ft	Total/NA	Solid	3050B	
480-227296-10	MW-1 12-15 ft	Total/NA	Solid	3050B	
MB 480-738994/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-738994/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 739009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	TCLP	Solid	3010A	738884
480-227296-12	RISB-3 0.5-3 ft	TCLP	Solid	3010A	738884
LB 480-738884/1-B	Method Blank	TCLP	Solid	3010A	738884
MB 480-739009/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-739009/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-227296-11 MS	RISB-2 1-4 ft	TCLP	Solid	3010A	738884
480-227296-11 MSD	RISB-2 1-4 ft	TCLP	Solid	3010A	738884

Prep Batch: 739028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	TCLP	Solid	7470A	738884
480-227296-12	RISB-3 0.5-3 ft	TCLP	Solid	7470A	738884
LB 480-738884/1-C	Method Blank	TCLP	Solid	7470A	738884
MB 480-739028/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-739028/3-A	Lab Control Sample	Total/NA	Solid	7470A	
480-227296-11 MS	RISB-2 1-4 ft	TCLP	Solid	7470A	738884
480-227296-11 MSD	RISB-2 1-4 ft	TCLP	Solid	7470A	738884

Analysis Batch: 739060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	7471B	738987
480-227296-2	TP-28 5-7 ft	Total/NA	Solid	7471B	738987
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	7471B	738987
480-227296-4	MW-4 5-8 ft	Total/NA	Solid	7471B	738987
480-227296-5	MW-4 12-15 ft	Total/NA	Solid	7471B	738987
480-227296-6	SS-7	Total/NA	Solid	7471B	738987
480-227296-7	TP-30 2-3 ft	Total/NA	Solid	7471B	738987
480-227296-8	MW-1 1.5-4.25 ft	Total/NA	Solid	7471B	738987
480-227296-9	MW-1 5-7 ft	Total/NA	Solid	7471B	738987
480-227296-10	MW-1 12-15 ft	Total/NA	Solid	7471B	738987
MB 480-738987/1-A	Method Blank	Total/NA	Solid	7471B	738987
LCSSRM 480-738987/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	738987
480-227296-1 MS	TP-28 0-2 ft	Total/NA	Solid	7471B	738987
480-227296-1 MSD	TP-28 0-2 ft	Total/NA	Solid	7471B	738987

Metals

Analysis Batch: 739144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	TCLP	Solid	7470A	739028
480-227296-12	RISB-3 0.5-3 ft	TCLP	Solid	7470A	739028
LB 480-738884/1-C	Method Blank	TCLP	Solid	7470A	739028
MB 480-739028/2-A	Method Blank	Total/NA	Solid	7470A	739028
LCS 480-739028/3-A	Lab Control Sample	Total/NA	Solid	7470A	739028
480-227296-11 MS	RISB-2 1-4 ft	TCLP	Solid	7470A	739028
480-227296-11 MSD	RISB-2 1-4 ft	TCLP	Solid	7470A	739028

Analysis Batch: 739145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	TCLP	Solid	6010C	739009
480-227296-12	RISB-3 0.5-3 ft	TCLP	Solid	6010C	739009
LB 480-738884/1-B	Method Blank	TCLP	Solid	6010C	739009
MB 480-739009/2-A	Method Blank	Total/NA	Solid	6010C	739009
LCS 480-739009/3-A	Lab Control Sample	Total/NA	Solid	6010C	739009
480-227296-11 MS	RISB-2 1-4 ft	TCLP	Solid	6010C	739009
480-227296-11 MSD	RISB-2 1-4 ft	TCLP	Solid	6010C	739009

Analysis Batch: 739173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	6010C	738994
480-227296-2	TP-28 5-7 ft	Total/NA	Solid	6010C	738994
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	6010C	738994
480-227296-4	MW-4 5-8 ft	Total/NA	Solid	6010C	738994
480-227296-5	MW-4 12-15 ft	Total/NA	Solid	6010C	738994
480-227296-6	SS-7	Total/NA	Solid	6010C	738994
480-227296-7	TP-30 2-3 ft	Total/NA	Solid	6010C	738994
480-227296-8	MW-1 1.5-4.25 ft	Total/NA	Solid	6010C	738994
480-227296-9	MW-1 5-7 ft	Total/NA	Solid	6010C	738994
480-227296-10	MW-1 12-15 ft	Total/NA	Solid	6010C	738994
MB 480-738994/1-A	Method Blank	Total/NA	Solid	6010C	738994
LCSSRM 480-738994/2-A	Lab Control Sample	Total/NA	Solid	6010C	738994

Analysis Batch: 739248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-2	TP-28 5-7 ft	Total/NA	Solid	6010C	738994
LCSSRM 480-738994/2-A	Lab Control Sample	Total/NA	Solid	6010C	738994

Analysis Batch: 739301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-5	MW-4 12-15 ft	Total/NA	Solid	6010C	738994

General Chemistry

Analysis Batch: 738851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-1	TP-28 0-2 ft	Total/NA	Solid	Moisture	
480-227296-2	TP-28 5-7 ft	Total/NA	Solid	Moisture	
480-227296-3	MW-4 0.5-2 ft	Total/NA	Solid	Moisture	
480-227296-4	MW-4 5-8 ft	Total/NA	Solid	Moisture	
480-227296-5	MW-4 12-15 ft	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 738851 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-6	SS-7	Total/NA	Solid	Moisture	
480-227296-7	TP-30 2-3 ft	Total/NA	Solid	Moisture	
480-227296-8	MW-1 1.5-4.25 ft	Total/NA	Solid	Moisture	
480-227296-9	MW-1 5-7 ft	Total/NA	Solid	Moisture	
480-227296-10	MW-1 12-15 ft	Total/NA	Solid	Moisture	
480-227296-11	RISB-2 1-4 ft	Total/NA	Solid	Moisture	
480-227296-12	RISB-3 0.5-3 ft	Total/NA	Solid	Moisture	

Analysis Batch: 739241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	Total/NA	Solid	9045D	
480-227296-12	RISB-3 0.5-3 ft	Total/NA	Solid	9045D	
LCS 480-739241/1	Lab Control Sample	Total/NA	Solid	9045D	
480-227296-11 DU	RISB-2 1-4 ft	Total/NA	Solid	9045D	

Analysis Batch: 739252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	Total/NA	Solid	1010A	
480-227296-12	RISB-3 0.5-3 ft	Total/NA	Solid	1010A	
LCS 480-739252/1	Lab Control Sample	Total/NA	Solid	1010A	

Prep Batch: 739517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	Total/NA	Solid	7.3.3	
480-227296-12	RISB-3 0.5-3 ft	Total/NA	Solid	7.3.3	
MB 480-739517/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-739517/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 739518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	Total/NA	Solid	7.3.4	
480-227296-12	RISB-3 0.5-3 ft	Total/NA	Solid	7.3.4	
MB 480-739518/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-739518/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 739587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	Total/NA	Solid	9034	739518
480-227296-12	RISB-3 0.5-3 ft	Total/NA	Solid	9034	739518
MB 480-739518/1-A	Method Blank	Total/NA	Solid	9034	739518
LCS 480-739518/2-A	Lab Control Sample	Total/NA	Solid	9034	739518

Analysis Batch: 739604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227296-11	RISB-2 1-4 ft	Total/NA	Solid	9012	739517
480-227296-12	RISB-3 0.5-3 ft	Total/NA	Solid	9012	739517
MB 480-739517/1-A	Method Blank	Total/NA	Solid	9012	739517
LCS 480-739517/2-A	Lab Control Sample	Total/NA	Solid	9012	739517

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: TP-28 0-2 ft
Lab Sample ID: 480-227296-1
Date Collected: 02/11/25 11:30
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: TP-28 0-2 ft
Lab Sample ID: 480-227296-1
Date Collected: 02/11/25 11:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738858	ZN	EET BUF	02/12/25 14:39
Total/NA	Analysis	8260C		1	738939	LCH	EET BUF	02/13/25 18:11
Total/NA	Prep	3550C			738933	LSC	EET BUF	02/13/25 13:37
Total/NA	Analysis	8270D		5	738999	JMM	EET BUF	02/14/25 16:48
Total/NA	Prep	3550C			738872	DP	EET BUF	02/13/25 06:37
Total/NA	Analysis	8081B		10	738978	JLS	EET BUF	02/14/25 10:24
Total/NA	Prep	3550C			738874	DP	EET BUF	02/13/25 06:45
Total/NA	Analysis	8082A		1	738973	H9RU	EET BUF	02/14/25 17:40
Total/NA	Prep	8151A			738873	SMP	EET BUF	02/13/25 06:44
Total/NA	Analysis	8151A		1	739283	JLS	EET BUF	02/19/25 19:10
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645517	DSH	EET CLE	02/20/25 12:54
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 16:38
Total/NA	Prep	7471B			738987	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 14:54

Client Sample ID: TP-28 5-7 ft
Lab Sample ID: 480-227296-2
Date Collected: 02/11/25 11:45
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: TP-28 5-7 ft
Lab Sample ID: 480-227296-2
Date Collected: 02/11/25 11:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739213	LSC	EET BUF	02/18/25 14:01
Total/NA	Analysis	8270D		1	739264	AF	EET BUF	02/19/25 15:34
Total/NA	Prep	3550C			738872	DP	EET BUF	02/13/25 06:37
Total/NA	Analysis	8081B		1	738978	JLS	EET BUF	02/14/25 10:43
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 16:40
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		5	739248	BMB	EET BUF	02/18/25 16:45

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: TP-28 5-7 ft
Lab Sample ID: 480-227296-2
Date Collected: 02/11/25 11:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			738987	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 15:02

Client Sample ID: MW-4 0.5-2 ft
Lab Sample ID: 480-227296-3
Date Collected: 02/11/25 10:30
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: MW-4 0.5-2 ft
Lab Sample ID: 480-227296-3
Date Collected: 02/11/25 10:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738858	ZN	EET BUF	02/12/25 14:39
Total/NA	Analysis	8260C		1	738939	LCH	EET BUF	02/13/25 18:35
Total/NA	Prep	3550C			738933	LSC	EET BUF	02/13/25 13:37
Total/NA	Analysis	8270D		1	738999	JMM	EET BUF	02/14/25 16:23
Total/NA	Prep	3550C			738872	DP	EET BUF	02/13/25 06:37
Total/NA	Analysis	8081B		5	738978	JLS	EET BUF	02/14/25 11:03
Total/NA	Prep	3550C			738874	DP	EET BUF	02/13/25 06:45
Total/NA	Analysis	8082A		1	738973	H9RU	EET BUF	02/14/25 17:58
Total/NA	Prep	8151A			738873	SMP	EET BUF	02/13/25 06:44
Total/NA	Analysis	8151A		1	739283	JLS	EET BUF	02/19/25 19:28
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645517	DSH	EET CLE	02/20/25 13:10
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 16:42
Total/NA	Prep	7471B			738987	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 15:03

Client Sample ID: MW-4 5-8 ft
Lab Sample ID: 480-227296-4
Date Collected: 02/11/25 10:45
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: MW-4 5-8 ft
Lab Sample ID: 480-227296-4
Date Collected: 02/11/25 10:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739213	LSC	EET BUF	02/18/25 14:01
Total/NA	Analysis	8270D		1	739264	AF	EET BUF	02/19/25 15:59

Client Sample ID: MW-4 5-8 ft
Lab Sample ID: 480-227296-4
Date Collected: 02/11/25 10:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			738872	DP	EET BUF	02/13/25 06:37
Total/NA	Analysis	8081B		1	738978	JLS	EET BUF	02/14/25 11:22
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 16:44
Total/NA	Prep	7471B			738987	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 15:05

Client Sample ID: MW-4 12-15 ft
Lab Sample ID: 480-227296-5
Date Collected: 02/11/25 11:00
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: MW-4 12-15 ft
Lab Sample ID: 480-227296-5
Date Collected: 02/11/25 11:00
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739213	LSC	EET BUF	02/18/25 14:01
Total/NA	Analysis	8270D		1	739264	AF	EET BUF	02/19/25 16:23
Total/NA	Prep	3550C			738872	DP	EET BUF	02/13/25 06:37
Total/NA	Analysis	8081B		1	738978	JLS	EET BUF	02/14/25 11:42
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 16:45
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		5	739301	BMB	EET BUF	02/19/25 15:34
Total/NA	Prep	7471B			738987	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 15:06

Client Sample ID: SS-7
Lab Sample ID: 480-227296-6
Date Collected: 02/11/25 12:00
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: SS-7
Lab Sample ID: 480-227296-6
Date Collected: 02/11/25 12:00
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739213	LSC	EET BUF	02/18/25 14:01
Total/NA	Analysis	8270D		20	739264	AF	EET BUF	02/19/25 16:48
Total/NA	Prep	3550C			738872	DP	EET BUF	02/13/25 06:37
Total/NA	Analysis	8081B		10	738978	JLS	EET BUF	02/14/25 12:01

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: SS-7
Lab Sample ID: 480-227296-6
Date Collected: 02/11/25 12:00
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 16:47
Total/NA	Prep	7471B			738987	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 15:07

Client Sample ID: TP-30 2-3 ft
Lab Sample ID: 480-227296-7
Date Collected: 02/11/25 13:30
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: TP-30 2-3 ft
Lab Sample ID: 480-227296-7
Date Collected: 02/11/25 13:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739213	LSC	EET BUF	02/18/25 14:01
Total/NA	Analysis	8270D		1	739264	AF	EET BUF	02/19/25 17:12
Total/NA	Prep	3550C			738872	DP	EET BUF	02/13/25 06:37
Total/NA	Analysis	8081B		1	738978	JLS	EET BUF	02/14/25 12:21
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 16:49
Total/NA	Prep	7471B			738987	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 15:09

Client Sample ID: MW-1 1.5-4.25 ft
Lab Sample ID: 480-227296-8
Date Collected: 02/11/25 14:45
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: MW-1 1.5-4.25 ft
Lab Sample ID: 480-227296-8
Date Collected: 02/11/25 14:45
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739213	LSC	EET BUF	02/18/25 14:01
Total/NA	Analysis	8270D		1	739264	AF	EET BUF	02/19/25 17:36
Total/NA	Prep	3550C			738872	DP	EET BUF	02/13/25 06:37
Total/NA	Analysis	8081B		1	738978	JLS	EET BUF	02/14/25 12:40
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 16:57
Total/NA	Prep	7471B			738987	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 15:10

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: MW-1 5-7 ft
Lab Sample ID: 480-227296-9
Date Collected: 02/11/25 15:00
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: MW-1 5-7 ft
Lab Sample ID: 480-227296-9
Date Collected: 02/11/25 15:00
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739213	LSC	EET BUF	02/18/25 14:01
Total/NA	Analysis	8270D		1	739264	AF	EET BUF	02/19/25 18:00
Total/NA	Prep	3550C			738872	DP	EET BUF	02/13/25 06:37
Total/NA	Analysis	8081B		1	738978	JLS	EET BUF	02/14/25 13:00
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 16:59
Total/NA	Prep	7471B			738987	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 15:11

Client Sample ID: MW-1 12-15 ft
Lab Sample ID: 480-227296-10
Date Collected: 02/11/25 15:05
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: MW-1 12-15 ft
Lab Sample ID: 480-227296-10
Date Collected: 02/11/25 15:05
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739213	LSC	EET BUF	02/18/25 14:01
Total/NA	Analysis	8270D		1	739264	AF	EET BUF	02/19/25 18:25
Total/NA	Prep	3550C			738872	DP	EET BUF	02/13/25 06:37
Total/NA	Analysis	8081B		1	738978	JLS	EET BUF	02/14/25 13:20
Total/NA	Prep	3050B			738994	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:01
Total/NA	Prep	7471B			738987	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 15:12

Client Sample ID: RISB-2 1-4 ft
Lab Sample ID: 480-227296-11
Date Collected: 02/11/25 14:00
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			738886	SMP	EET BUF	02/13/25 07:56 - 02/14/25 12:26 [1]
TCLP	Analysis	8260C		10	739017	LCH	EET BUF	02/14/25 16:31

Client Sample ID: RISB-2 1-4 ft
Lab Sample ID: 480-227296-11
Date Collected: 02/11/25 14:00
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			738884	SMP	EET BUF	02/13/25 07:50 - 02/14/25 11:12 ¹
TCLP	Prep	3510C			739037	LSC	EET BUF	02/14/25 13:37
TCLP	Analysis	8270D		1	739117	JMM	EET BUF	02/17/25 13:14
TCLP	Leach	1311			738884	SMP	EET BUF	02/13/25 07:50 - 02/14/25 11:12 ¹
TCLP	Prep	3010A			739009	EMO	EET BUF	02/15/25 08:21
TCLP	Analysis	6010C		1	739145	BMB	EET BUF	02/17/25 14:34
TCLP	Leach	1311			738884	SMP	EET BUF	02/13/25 07:50 - 02/14/25 11:12 ¹
TCLP	Prep	7470A			739028	ESB	EET BUF	02/14/25 13:14
TCLP	Analysis	7470A		1	739144	BMB	EET BUF	02/14/25 16:28
Total/NA	Analysis	1010A		1	739252	KM	EET BUF	02/19/25 09:14
Total/NA	Prep	7.3.3			739517	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9012		1	739604	AM	EET BUF	02/25/25 12:27
Total/NA	Prep	7.3.4			739518	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9034		1	739587	AM	EET BUF	02/25/25 12:52
Total/NA	Analysis	9045D		1	739241	CG	EET BUF	02/18/25 09:45
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: RISB-2 1-4 ft
Lab Sample ID: 480-227296-11
Date Collected: 02/11/25 14:00
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			738874	DP	EET BUF	02/13/25 06:45
Total/NA	Analysis	8082A		1	738973	H9RU	EET BUF	02/14/25 18:17

Client Sample ID: RISB-3 0.5-3 ft
Lab Sample ID: 480-227296-12
Date Collected: 02/11/25 14:30
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			738886	SMP	EET BUF	02/13/25 07:56 - 02/14/25 12:26 ¹
TCLP	Analysis	8260C		10	739017	LCH	EET BUF	02/14/25 16:53
TCLP	Leach	1311			738884	SMP	EET BUF	02/13/25 07:50 - 02/14/25 11:12 ¹
TCLP	Prep	3510C			739037	LSC	EET BUF	02/14/25 13:37
TCLP	Analysis	8270D		1	739117	JMM	EET BUF	02/17/25 13:40
TCLP	Leach	1311			738884	SMP	EET BUF	02/13/25 07:50 - 02/14/25 11:12 ¹
TCLP	Prep	3010A			739009	EMO	EET BUF	02/15/25 08:21
TCLP	Analysis	6010C		1	739145	BMB	EET BUF	02/17/25 14:44
TCLP	Leach	1311			738884	SMP	EET BUF	02/13/25 07:50 - 02/14/25 11:12 ¹
TCLP	Prep	7470A			739028	ESB	EET BUF	02/14/25 13:14
TCLP	Analysis	7470A		1	739144	BMB	EET BUF	02/14/25 16:33
Total/NA	Analysis	1010A		1	739252	KM	EET BUF	02/19/25 09:14
Total/NA	Prep	7.3.3			739517	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9012		1	739604	AM	EET BUF	02/25/25 12:28

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Client Sample ID: RISB-3 0.5-3 ft
Lab Sample ID: 480-227296-12

Date Collected: 02/11/25 14:30
Matrix: Solid
Date Received: 02/11/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			739518	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9034		1	739587	AM	EET BUF	02/25/25 12:52
Total/NA	Analysis	9045D		1	739241	CG	EET BUF	02/18/25 09:45
Total/NA	Analysis	Moisture		1	738851	VXF	EET BUF	02/12/25 14:07

Client Sample ID: RISB-3 0.5-3 ft
Lab Sample ID: 480-227296-12

Date Collected: 02/11/25 14:30
Matrix: Solid
Date Received: 02/11/25 16:00
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			738874	DP	EET BUF	02/13/25 06:45
Total/NA	Analysis	8082A		1	738973	H9RU	EET BUF	02/14/25 18:35

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8151A	8151A	Solid	Picloram
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Method Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Method	Method Description	Protocol	Laboratory
8260C	TCLP Volatiles	SW846	EET BUF
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
8151A	Herbicides (GC)	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7470A	TCLP Mercury	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	EET BUF
9012	Cyanide, Reactive	SW846	EET BUF
9034	Sulfide, Reactive	SW846	EET BUF
9045D	pH	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1311	TCLP Extraction	SW846	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3010A	Preparation, Total Metals	SW846	EET BUF
3050B	Preparation, Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7.3.3	Cyanide, Reactive	SW846	EET BUF
7.3.4	Sulfide, Reactive	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227296-1	TP-28 0-2 ft	Solid	02/11/25 11:30	02/11/25 16:00
480-227296-2	TP-28 5-7 ft	Solid	02/11/25 11:45	02/11/25 16:00
480-227296-3	MW-4 0.5-2 ft	Solid	02/11/25 10:30	02/11/25 16:00
480-227296-4	MW-4 5-8 ft	Solid	02/11/25 10:45	02/11/25 16:00
480-227296-5	MW-4 12-15 ft	Solid	02/11/25 11:00	02/11/25 16:00
480-227296-6	SS-7	Solid	02/11/25 12:00	02/11/25 16:00
480-227296-7	TP-30 2-3 ft	Solid	02/11/25 13:30	02/11/25 16:00
480-227296-8	MW-1 1.5-4.25 ft	Solid	02/11/25 14:45	02/11/25 16:00
480-227296-9	MW-1 5-7 ft	Solid	02/11/25 15:00	02/11/25 16:00
480-227296-10	MW-1 12-15 ft	Solid	02/11/25 15:05	02/11/25 16:00
480-227296-11	RISB-2 1-4 ft	Solid	02/11/25 14:00	02/11/25 16:00
480-227296-12	RISB-3 0.5-3 ft	Solid	02/11/25 14:30	02/11/25 16:00

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Mike Sgrai	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-202116-41517.1
Client Contact: Bryan Mayback	Phone: 716-713-2437	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 9
Company: Roux Environmental Engineering and Geology DPC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: Standard			
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: bmayback@rouxinc.com	WO #:			
Project Name: North Aud Block - soil	Project #: 48028442			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None

480-227296 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	1633 - 1633 Standard List of 40	~~8260C~~ TCL SVOCs	~~6010B~~ TAL Metals	~~8082A~~ PCB's	herbicides	pesticides	Total Number	Special Instructions/Note:
Preservation Code:							N	N	N	N	N				
TP-28 0-2Ft	2/11/25	11:30	G	Solid			X	X	X	X	X	X	X		
TP-28 5-7Ft		11:45		Solid					X	X			X		
MW-4 0.5-2		10:30		Solid			X	X	X	X	X	X	X		
MW-4 5-8Ft		10:45		Solid					X	X			X		
MW-4 12-15Ft		11:00		Solid					X	X			X		
SS-7		12:00		Solid					X	X			X		
TP-30 2-3Ft		1330		Solid					X	X			X		
~~MW-1~~ MW-1 1.5-4.25Ft		1445		Solid					X	X			X		
MW-1 5-7Ft		1500		Solid					X	X			X		
MW-1 12-15Ft		15:05		Solid					X	X			X		
~~RTSB 3-5Ft~~		~~1430~~		Solid											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYSDec SMUS

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		2/11/25 16:00	Roux		2/11/25 16:00	TA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.7 3.0 IR#5C ICE

Ver: 10/10/2024

2/26/2025

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Nicole Sgrai	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-202116-41517.2
Client Contact: Bryan Mayback	Phone: 716-713-3437	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 2 of 9
Company: Roux Environmental Engineering and Geology DPC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested:			
City: Lackawanna	TAT Requested (days): Standard			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: bmayback@rouxinc.com	WO #:			
Project Name: North Aud Block - soil	Project #: 48028442			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_(MOD)_TCL_TIST_CLNP_2 TCLP VOC's	1633_1633_Standard_List_of_40 TCLP SVOC's	8082A_8151A TCLP Metals	6010C_7471B PCB's	8081B_8270D Pesticides	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N		
RI SB-2 1-4Ft	2/11/25	1400	G	Solid			X	X	X	X	X		
RI SB-3 0.5-3Ft	2/11/25	1430	G	Solid			X	X	X	X	X		
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYSDEC EQuIS

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2/11/25 1600	Roux		2/11/25 1600	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer Brian J	Carrier Tracking No(s): N/A	COC No: 480-91417 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-227296-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 3/3/2025			
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

85-33

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TP-28 0-2 (480-227296-1)	2/11/25	11 30 Eastern	G	Solid			X	1	
MW-4 0.5-2 (480-227296-3)	2/11/25	10:30 Eastern	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
VS	2-13-25 1600			2-14-25 1000	EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client E. Buffalo Site Name _____ Cooler unpacked by:

Cooler Received on 2-14-25 Opened on 2-14-25

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 18 (CF -0.1 °C) Observed Cooler Temp 1.8 °C Corrected Cooler Temp. 1.7 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12 Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC448976
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No
17 Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

_____

_____

_____

_____

19 SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

SAMPLE CONTROL
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE

BUFFALO, NY 142282223
UNITED STATES US

ACTWGT: 35.75 LB
CAD 0759273/CAFE3855
DIMS 26x15x14 IN

BILL SENDER

Part # 159469434 MTW EXP 08/25

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF BARBERTON

FedEx Express

TRK# 0201 7463 0662 2476

FRI - 14 FEB 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-227296-1

Login Number: 227296
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ROUX
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

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JOB DESCRIPTION

North Aud Block

JOB NUMBER

480-227331-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

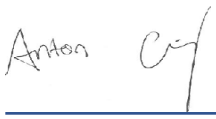
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Designee for
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Brian.Fischer@et.eurofinsus.com
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Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 18
Surrogate Summary 109
Isotope Dilution Summary 112
QC Sample Results 114
QC Association Summary 150
Lab Chronicle 158
Certification Summary 168
Method Summary 169
Sample Summary 170
Chain of Custody 171
Receipt Checklists 177

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-227331-1 Eurofins Buffalo

Job Narrative
480-227331-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/12/2025 4:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.6°C, 2.6°C and 3.1°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-738942 recovered above the upper control limit for Cyclohexane, Vinyl chloride, Chloromethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TP-33 5-9 (480-227331-2), TP-33 10-11 Ft (480-227331-3), MW-2 0.5-3.5 Ft (480-227331-4), MW-2 5-8 Ft (480-227331-5), MW-2 12-15 Ft (480-227331-6), Blind duplicate-1 (480-227331-7), TP-34 0-4 Ft (480-227331-8), TP-34 5-6 Ft (480-227331-9) and TP-31 2-4 Ft (480-227331-12).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-738942 recovered outside acceptance criteria, low biased, for trans-1,3-Dichloropropene and Chlorodibromomethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated samples are impacted: TP-33 5-9 (480-227331-2), TP-33 10-11 Ft (480-227331-3), MW-2 0.5-3.5 Ft (480-227331-4), MW-2 5-8 Ft (480-227331-5), MW-2 12-15 Ft (480-227331-6), Blind duplicate-1 (480-227331-7), TP-34 0-4 Ft (480-227331-8), TP-34 5-6 Ft (480-227331-9) and TP-31 2-4 Ft (480-227331-12).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to color, appearance, and viscosity: TP-33 1-5 Ft (480-227331-1), TP-34 5-6 Ft (480-227331-9), TP-31 2-4 Ft (480-227331-12) and TP-32 2-3 Ft (480-227331-13). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: Blind duplicate-1 (480-227331-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
Method 8151A: The following samples: TP-33 10-11 Ft (480-227331-3) and TP-31 2-4 Ft (480-227331-12) were decanted prior to preparation .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 8082A: The following sample: TP-31 2-4 Ft (480-227331-12) was decanted prior to preparation .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: TP-33 1-5 Ft (480-227331-1), MW-2 0.5-3.5 Ft (480-227331-4), Blind duplicate-1 (480-227331-7), TP-34 0-4 Ft (480-227331-8), TP-34 5-6 Ft (480-227331-9), TP-31 2-4 Ft (480-227331-12) and TP-32 2-3 Ft (480-227331-13).

Eurofins Buffalo

Job ID: 480-227331-1 (Continued) Eurofins Buffalo

Method 8081B: The following samples were diluted due to the nature of the sample matrix: TP-33 1-5 Ft (480-227331-1), MW-2 0.5-3.5 Ft (480-227331-4), Blind duplicate-1 (480-227331-7), TP-34 0-4 Ft (480-227331-8), TP-34 5-6 Ft (480-227331-9), TP-31 2-4 Ft (480-227331-12) and TP-32 2-3 Ft (480-227331-13). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS

Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-645247 recovered above the upper control limit for Nonafluoro-3,6-dioxaheptanoic acid (NFDHA). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 1633: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 240-644982 and analytical batch 240-645247 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-645247 recovered outside of control limits for IDA compound(s) (flagged). Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV(s) must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analyte(s) associated with this IDA are within spec, data is reported.

Method 1633: The continuing calibration verification (CCV) recovered outside of control limits for IDA compound(s) (flagged). Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV(s) must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analyte(s) associated with this IDA are within spec, data is reported. The following samples are impacted: TP-33 1-5 Ft (480-227331-1), TP-33 5-9 (480-227331-2), TP-33 10-11 Ft (480-227331-3), MW-2 0.5-3.5 Ft (480-227331-4), MW-2 5-8 Ft (480-227331-5), MW-2 12-15 Ft (480-227331-6), Blind duplicate-1 (480-227331-7), TP-34 0-4 Ft (480-227331-8), TP-34 5-6 Ft (480-227331-9), TP-31 2-4 Ft (480-227331-12) and TP-32 2-3 Ft (480-227331-13).

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: MW-2 5-8 Ft (480-227331-5) and TP-32 2-3 Ft (480-227331-13). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample ID: TP-33 1-5 Ft
Lab Sample ID: 480-227331-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.8	J	27	2.0	ug/Kg	1	☼	8260C	Total/NA
Acetone	29	B	27	4.5	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.48	J B	5.3	0.33	ug/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	190	J	950	190	ug/Kg	5	☼	8270D	Total/NA
Acenaphthene	470	J	950	140	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	210	J	950	120	ug/Kg	5	☼	8270D	Total/NA
Anthracene	1100		950	230	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	3200		950	95	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	3000		950	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	3600		950	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1500		950	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1500		950	120	ug/Kg	5	☼	8270D	Total/NA
Carbazole	380	J	950	110	ug/Kg	5	☼	8270D	Total/NA
Chrysene	3100		950	210	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	480	J	950	170	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	320	J	950	110	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	6200		950	100	ug/Kg	5	☼	8270D	Total/NA
Fluorene	450	J	950	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1300		950	120	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	180	J	950	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	4700		950	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	5800		950	110	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDT	5.6	J	19	4.3	ug/Kg	10	☼	8081B	Total/NA
Endrin	4.0	J	19	3.7	ug/Kg	10	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.13	J	0.14	0.035	ug/Kg	1	☼	1633	Total/NA
Aluminum	7030		11.2	9.7	mg/Kg	1	☼	6010C	Total/NA
Arsenic	15.1		2.2	0.99	mg/Kg	1	☼	6010C	Total/NA
Barium	144		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.39		0.22	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.47		0.22	0.079	mg/Kg	1	☼	6010C	Total/NA
Calcium	42200		56.1	30.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	12.2		0.56	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.3		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	92.3		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Iron	13400		11.2	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	683		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Magnesium	11300		22.4	9.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	277		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	13.3		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1530		33.6	27.2	mg/Kg	1	☼	6010C	Total/NA
Silver	0.42	J	0.67	0.22	mg/Kg	1	☼	6010C	Total/NA
Sodium	216		157	68.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	16.9		0.56	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	321		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	1.6		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-33 5-9
Lab Sample ID: 480-227331-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	21	J	28	4.7	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.89	J B	5.6	0.35	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-33 5-9 (Continued)
Lab Sample ID: 480-227331-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.74	J	5.6	0.42	ug/Kg	1	☼	8260C	Total/NA
Aluminum	6910		11.6	10	mg/Kg	1	☼	6010C	Total/NA
Barium	18.0		0.58	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.32		0.23	0.046	mg/Kg	1	☼	6010C	Total/NA
Calcium	101000		289	156	mg/Kg	5	☼	6010C	Total/NA
Chromium	9.1		0.58	0.42	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.1		0.58	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	10.8		1.2	0.66	mg/Kg	1	☼	6010C	Total/NA
Iron	6980		11.6	9.8	mg/Kg	1	☼	6010C	Total/NA
Lead	9.4		1.2	0.53	mg/Kg	1	☼	6010C	Total/NA
Magnesium	61700		116	49.0	mg/Kg	5	☼	6010C	Total/NA
Manganese	156		1.2	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.8		5.8	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	2680		34.7	28.0	mg/Kg	1	☼	6010C	Total/NA
Sodium	209		162	70.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	13.4		0.58	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	29.7		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.065		0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-33 10-11 Ft
Lab Sample ID: 480-227331-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.93	J B	5.6	0.35	ug/Kg	1	☼	8260C	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.051	J	0.16	0.040	ug/Kg	1	☼	1633	Total/NA
Aluminum	4330		13.4	11.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.1	J	2.7	1.2	mg/Kg	1	☼	6010C	Total/NA
Barium	11.4		0.67	0.19	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.20	J	0.27	0.054	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.16	J	0.27	0.094	mg/Kg	1	☼	6010C	Total/NA
Calcium	82800		67.0	36.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.3		0.67	0.48	mg/Kg	1	☼	6010C	Total/NA
Cobalt	1.9		0.67	0.13	mg/Kg	1	☼	6010C	Total/NA
Copper	6.3		1.3	0.76	mg/Kg	1	☼	6010C	Total/NA
Iron	5990		13.4	11.4	mg/Kg	1	☼	6010C	Total/NA
Lead	6.3		1.3	0.62	mg/Kg	1	☼	6010C	Total/NA
Magnesium	44300		26.8	11.4	mg/Kg	1	☼	6010C	Total/NA
Manganese	241		1.3	0.38	mg/Kg	1	☼	6010C	Total/NA
Nickel	5.8	J	6.7	0.34	mg/Kg	1	☼	6010C	Total/NA
Potassium	1630		40.2	32.5	mg/Kg	1	☼	6010C	Total/NA
Sodium	289		188	82.2	mg/Kg	1	☼	6010C	Total/NA
Vanadium	8.2		0.67	0.17	mg/Kg	1	☼	6010C	Total/NA
Zinc	27.3		2.7	1.4	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.056		0.026	0.0059	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-2 0.5-3.5 Ft
Lab Sample ID: 480-227331-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.94	J B	5.1	0.32	ug/Kg	1	☼	8260C	Total/NA
Anthracene	59	J	180	44	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	170	J	180	18	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	160	J	180	26	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		180	28	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-2 0.5-3.5 Ft (Continued)
Lab Sample ID: 480-227331-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	94	J	180	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	100	J	180	23	ug/Kg	1	☼	8270D	Total/NA
Carbazole	25	J	180	21	ug/Kg	1	☼	8270D	Total/NA
Chrysene	180		180	40	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	380		180	19	ug/Kg	1	☼	8270D	Total/NA
Fluorene	24	J	180	21	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	74	J	180	22	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	260		180	26	ug/Kg	1	☼	8270D	Total/NA
Pyrene	320		180	21	ug/Kg	1	☼	8270D	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.037	J	0.13	0.033	ug/Kg	1	☼	1633	Total/NA
Aluminum	5620		10.6	9.2	mg/Kg	1	☼	6010C	Total/NA
Barium	31.6		0.53	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.20	J	0.21	0.043	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.14	J	0.21	0.074	mg/Kg	1	☼	6010C	Total/NA
Calcium	28000		53.1	28.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	6.6		0.53	0.38	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.2		0.53	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	5.9		1.1	0.61	mg/Kg	1	☼	6010C	Total/NA
Iron	8400		10.6	9.0	mg/Kg	1	☼	6010C	Total/NA
Lead	15.8		1.1	0.49	mg/Kg	1	☼	6010C	Total/NA
Magnesium	10700		21.3	9.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	138		1.1	0.30	mg/Kg	1	☼	6010C	Total/NA
Nickel	5.0	J	5.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	963		31.9	25.8	mg/Kg	1	☼	6010C	Total/NA
Sodium	125	J	149	65.2	mg/Kg	1	☼	6010C	Total/NA
Vanadium	11.5		0.53	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	39.6		2.1	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.031		0.021	0.0049	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-2 5-8 Ft
Lab Sample ID: 480-227331-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J	21	3.6	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.43	J	4.2	0.21	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.68	J B	4.2	0.26	ug/Kg	1	☼	8260C	Total/NA
Methylcyclohexane	0.94	J	4.2	0.64	ug/Kg	1	☼	8260C	Total/NA
m,p-Xylene	0.86	J	8.5	0.71	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.1	J	4.2	0.32	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.86	J	8.5	0.71	ug/Kg	1	☼	8260C	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.044	J	0.14	0.035	ug/Kg	1	☼	1633	Total/NA
Aluminum	5020		11.7	10.1	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.1	J	2.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	15.4		0.59	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.22	J	0.23	0.047	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.11	J	0.23	0.082	mg/Kg	1	☼	6010C	Total/NA
Calcium	99800		293	158	mg/Kg	5	☼	6010C	Total/NA
Chromium	6.7		0.59	0.42	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.5		0.59	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	9.9		1.2	0.67	mg/Kg	1	☼	6010C	Total/NA
Iron	6410		11.7	9.9	mg/Kg	1	☼	6010C	Total/NA
Lead	6.4		1.2	0.54	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-2 5-8 Ft (Continued)
Lab Sample ID: 480-227331-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	49600		117	49.7	mg/Kg	5	☼	6010C	Total/NA
Manganese	226		1.2	0.33	mg/Kg	1	☼	6010C	Total/NA
Nickel	6.5		5.9	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	1880		35.2	28.4	mg/Kg	1	☼	6010C	Total/NA
Sodium	200		164	71.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	9.9		0.59	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	31.9		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.014	J	0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-2 12-15 Ft
Lab Sample ID: 480-227331-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.0	J	24	1.7	ug/Kg	1	☼	8260C	Total/NA
Acetone	14	J	24	4.0	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.83	J B	4.8	0.30	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.71	J	4.8	0.36	ug/Kg	1	☼	8260C	Total/NA
Aluminum	3790		11.2	9.7	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.9		2.2	0.99	mg/Kg	1	☼	6010C	Total/NA
Barium	14.9		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.19	J	0.22	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.12	J	0.22	0.078	mg/Kg	1	☼	6010C	Total/NA
Calcium	88200		280	151	mg/Kg	5	☼	6010C	Total/NA
Chromium	4.9		0.56	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.3		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	9.7		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Iron	6250		11.2	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	5.3		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Magnesium	40400		22.4	9.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	234		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.4		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1490		33.6	27.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	290		157	68.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	8.7		0.56	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	42.5		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.011	J	0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Blind duplicate-1
Lab Sample ID: 480-227331-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.6	J	25	1.8	ug/Kg	1	☼	8260C	Total/NA
Acetone	34		25	4.2	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.75	J B	5.0	0.31	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	1.9	J	5.0	0.66	ug/Kg	1	☼	8260C	Total/NA
Biphenyl	36	J	190	28	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	130	J	190	38	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	360		190	28	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	200		190	25	ug/Kg	1	☼	8270D	Total/NA
Anthracene	970		190	47	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2600		190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2500		190	28	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	3200	E	190	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1600		190	20	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Blind duplicate-1 (Continued)
Lab Sample ID: 480-227331-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	1200		190	25	ug/Kg	1	☼	8270D	Total/NA
Carbazole	470		190	22	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2700		190	42	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	500		190	33	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	290		190	22	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	5400	E	190	20	ug/Kg	1	☼	8270D	Total/NA
Fluorene	400		190	22	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1400		190	23	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	170	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	4200	E	190	28	ug/Kg	1	☼	8270D	Total/NA
Pyrene	4700	E	190	22	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene - DL	320	J	950	140	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene - DL	210	J	950	120	ug/Kg	5	☼	8270D	Total/NA
Anthracene - DL	880	J	950	230	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene - DL	2500		950	95	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene - DL	2300		950	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	2700		950	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	1400		950	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	1300		950	120	ug/Kg	5	☼	8270D	Total/NA
Carbazole - DL	410	J	950	110	ug/Kg	5	☼	8270D	Total/NA
Chrysene - DL	2400		950	210	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	470	J	950	170	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran - DL	280	J	950	110	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	5300		950	100	ug/Kg	5	☼	8270D	Total/NA
Fluorene - DL	380	J	950	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	1200		950	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene - DL	4100		950	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene - DL	4300		950	110	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDT	4.6	J	18	4.3	ug/Kg	10	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.13	J	0.14	0.035	ug/Kg	1	☼	1633	Total/NA
Aluminum	9100		11.3	9.7	mg/Kg	1	☼	6010C	Total/NA
Arsenic	22.5		2.3	0.99	mg/Kg	1	☼	6010C	Total/NA
Barium	139		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.42		0.23	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.46		0.23	0.079	mg/Kg	1	☼	6010C	Total/NA
Calcium	45700		56.3	30.4	mg/Kg	1	☼	6010C	Total/NA
Chromium	13.3		0.56	0.41	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.9		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	66.0		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Iron	39100		11.3	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	573		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Magnesium	12600		22.5	9.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	438		1.1	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	14.4		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	2070		33.8	27.3	mg/Kg	1	☼	6010C	Total/NA
Silver	0.39	J	0.68	0.23	mg/Kg	1	☼	6010C	Total/NA
Sodium	236		158	69.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	25.0		0.56	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	277		2.3	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	1.7		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-34 0-4 Ft
Lab Sample ID: 480-227331-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.84	J B	4.5	0.28	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	100	J	200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	110	J	200	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	140	J	200	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	77	J	200	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	66	J	200	26	ug/Kg	1	☼	8270D	Total/NA
Chrysene	120	J	200	46	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	200		200	22	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	66	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	110	J	200	30	ug/Kg	1	☼	8270D	Total/NA
Pyrene	170	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.051	J	0.15	0.037	ug/Kg	1	☼	1633	Total/NA
Aluminum	19400		12.4	10.7	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.4		2.5	1.1	mg/Kg	1	☼	6010C	Total/NA
Barium	124		0.62	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.84		0.25	0.050	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.29		0.25	0.087	mg/Kg	1	☼	6010C	Total/NA
Calcium	28700		62.0	33.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	22.9		0.62	0.45	mg/Kg	1	☼	6010C	Total/NA
Cobalt	10.3		0.62	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	36.7		1.2	0.71	mg/Kg	1	☼	6010C	Total/NA
Iron	22900		12.4	10.5	mg/Kg	1	☼	6010C	Total/NA
Lead	82.3		1.2	0.57	mg/Kg	1	☼	6010C	Total/NA
Magnesium	11700		24.8	10.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	382		1.2	0.35	mg/Kg	1	☼	6010C	Total/NA
Nickel	23.3		6.2	0.31	mg/Kg	1	☼	6010C	Total/NA
Potassium	4100		37.2	30.1	mg/Kg	1	☼	6010C	Total/NA
Silver	0.44	J	0.74	0.25	mg/Kg	1	☼	6010C	Total/NA
Sodium	169	J	174	76.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	34.7		0.62	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	84.1		2.5	1.3	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.12		0.025	0.0058	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-34 5-6 Ft
Lab Sample ID: 480-227331-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.6	J	22	3.7	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	120	J	990	99	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	220	J	990	100	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	150	J	990	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene	170	J	990	120	ug/Kg	5	☼	8270D	Total/NA
Perfluorooctanoic acid (PFOA)	0.038	J	0.15	0.036	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.056	J	0.15	0.036	ug/Kg	1	☼	1633	Total/NA
Aluminum	5100		12.6	10.8	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.0	J	18.9	0.67	mg/Kg	1	☼	6010C	Total/NA
Arsenic	7.7		2.5	1.1	mg/Kg	1	☼	6010C	Total/NA
Barium	102		0.63	0.18	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.25		0.25	0.050	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.24	J	0.25	0.088	mg/Kg	1	☼	6010C	Total/NA
Calcium	79900		62.8	33.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	9.4		0.63	0.45	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-34 5-6 Ft (Continued)
Lab Sample ID: 480-227331-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	4.3		0.63	0.13	mg/Kg	1	☼	6010C	Total/NA
Copper	54.4		1.3	0.72	mg/Kg	1	☼	6010C	Total/NA
Iron	10800		12.6	10.7	mg/Kg	1	☼	6010C	Total/NA
Lead	2240		1.3	0.58	mg/Kg	1	☼	6010C	Total/NA
Magnesium	19200		25.1	10.7	mg/Kg	1	☼	6010C	Total/NA
Manganese	254		1.3	0.35	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.9		6.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Potassium	1250		37.7	30.5	mg/Kg	1	☼	6010C	Total/NA
Silver	0.26	J	0.75	0.25	mg/Kg	1	☼	6010C	Total/NA
Sodium	217		176	77.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	13.0		0.63	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	120		2.5	1.3	mg/Kg	1	☼	6010C	Total/NA
Mercury	7.2		0.12	0.028	mg/Kg	5	☼	7471B	Total/NA

Client Sample ID: TP-34 6-8 Ft
Lab Sample ID: 480-227331-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	11000		11.7	10.1	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.2	J	2.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	57.8		0.58	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.38		0.23	0.047	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.10	J	0.23	0.082	mg/Kg	1	☼	6010C	Total/NA
Calcium	1040		58.3	31.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	12.4		0.58	0.42	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.4		0.58	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	3.8		1.2	0.67	mg/Kg	1	☼	6010C	Total/NA
Iron	11500		11.7	9.9	mg/Kg	1	☼	6010C	Total/NA
Lead	6.7		1.2	0.54	mg/Kg	1	☼	6010C	Total/NA
Magnesium	2090		23.3	9.9	mg/Kg	1	☼	6010C	Total/NA
Manganese	63.9		1.2	0.33	mg/Kg	1	☼	6010C	Total/NA
Nickel	11.7		5.8	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	1420		35.0	28.3	mg/Kg	1	☼	6010C	Total/NA
Silver	0.26	J	0.70	0.23	mg/Kg	1	☼	6010C	Total/NA
Sodium	97.7	J	163	71.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	20.3		0.58	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	45.5		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.0078	J	0.022	0.0052	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-34 13-15 Ft
Lab Sample ID: 480-227331-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7550		11.7	10.1	mg/Kg	1	☼	6010C	Total/NA
Barium	28.3		0.59	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.32		0.23	0.047	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.28		0.23	0.082	mg/Kg	1	☼	6010C	Total/NA
Calcium	1360		58.7	31.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	9.0		0.59	0.42	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.1		0.59	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	9.0		1.2	0.67	mg/Kg	1	☼	6010C	Total/NA
Iron	4940		11.7	10	mg/Kg	1	☼	6010C	Total/NA
Lead	10.2		1.2	0.54	mg/Kg	1	☼	6010C	Total/NA
Magnesium	1710		23.5	10	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-34 13-15 Ft (Continued)
Lab Sample ID: 480-227331-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	43.9		1.2	0.33	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.8		5.9	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	1500		35.2	28.5	mg/Kg	1	☼	6010C	Total/NA
Sodium	114	J	164	72.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	14.0		0.59	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	74.7		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.015	J	0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-31 2-4 Ft
Lab Sample ID: 480-227331-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.1	J B	4.6	0.28	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	400	J	930	93	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	390	J	930	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	480	J	930	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	260	J	930	99	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	230	J	930	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	400	J	930	210	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	900	J	930	99	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	210	J	930	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	560	J	930	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	710	J	930	110	ug/Kg	5	☼	8270D	Total/NA
Perfluorohexanoic acid (PFHxA)	0.065	J	0.14	0.034	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.057	J	0.14	0.034	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.12	J	0.14	0.034	ug/Kg	1	☼	1633	Total/NA
Aluminum	5330		11.0	9.5	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.3		2.2	0.97	mg/Kg	1	☼	6010C	Total/NA
Barium	500		0.55	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.22		0.22	0.044	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.16	J	0.22	0.077	mg/Kg	1	☼	6010C	Total/NA
Calcium	43600		55.1	29.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	7.0		0.55	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.8		0.55	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	14.9		1.1	0.63	mg/Kg	1	☼	6010C	Total/NA
Iron	7100		11.0	9.3	mg/Kg	1	☼	6010C	Total/NA
Lead	54.7		1.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Magnesium	8710		22.0	9.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	446		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.9		5.5	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1160		33.1	26.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	244		154	67.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	10.5		0.55	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	84.9		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.31		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-32 2-3 Ft
Lab Sample ID: 480-227331-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.56	J B	5.1	0.31	ug/Kg	1	☼	8260C	Total/NA
Biphenyl	180	J	1000	150	ug/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	570	J	1000	200	ug/Kg	5	☼	8270D	Total/NA
Acenaphthene	1400		1000	150	ug/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-32 2-3 Ft (Continued)
Lab Sample ID: 480-227331-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	420	J	1000	130	ug/Kg	5	☼	8270D	Total/NA
Anthracene	3700		1000	250	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	6400		1000	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	5500		1000	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	6300		1000	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2900		1000	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	3300		1000	130	ug/Kg	5	☼	8270D	Total/NA
Carbazole	1200		1000	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	6300		1000	220	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	940	J	1000	180	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	1400		1000	120	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	15000		1000	110	ug/Kg	5	☼	8270D	Total/NA
Fluorene	1900		1000	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2500		1000	120	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	550	J	1000	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	15000		1000	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene	12000		1000	120	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDT	6.8	J	20	4.6	ug/Kg	10	☼	8081B	Total/NA
Perfluorooctanoic acid (PFOA)	0.044	J	0.15	0.038	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.10	J	0.15	0.038	ug/Kg	1	☼	1633	Total/NA
Aluminum	9460		12.1	10.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	12.9		2.4	1.1	mg/Kg	1	☼	6010C	Total/NA
Barium	157		0.61	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.49		0.24	0.048	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.90		0.24	0.085	mg/Kg	1	☼	6010C	Total/NA
Calcium	36700		60.6	32.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.4		0.61	0.44	mg/Kg	1	☼	6010C	Total/NA
Cobalt	8.0		0.61	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	211		1.2	0.69	mg/Kg	1	☼	6010C	Total/NA
Iron	21200		12.1	10.3	mg/Kg	1	☼	6010C	Total/NA
Lead	1450		1.2	0.56	mg/Kg	1	☼	6010C	Total/NA
Magnesium	9310		24.2	10.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	303		1.2	0.34	mg/Kg	1	☼	6010C	Total/NA
Nickel	18.6		6.1	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	2150		36.4	29.4	mg/Kg	1	☼	6010C	Total/NA
Silver	0.55	J	0.73	0.24	mg/Kg	1	☼	6010C	Total/NA
Sodium	307		170	74.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.5		0.61	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	883		2.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	5.7		0.13	0.029	mg/Kg	5	☼	7471B	Total/NA

Client Sample ID: TP-31 7-8 Ft
Lab Sample ID: 480-227331-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7180		11.8	10.2	mg/Kg	1	☼	6010C	Total/NA
Barium	28.6		0.59	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.25		0.24	0.047	mg/Kg	1	☼	6010C	Total/NA
Calcium	1160		59.0	31.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	6.6		0.59	0.43	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.2		0.59	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	3.8		1.2	0.67	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: TP-31 7-8 Ft (Continued)
Lab Sample ID: 480-227331-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4680		11.8	10.0	mg/Kg	1	☼	6010C	Total/NA
Lead	6.8		1.2	0.54	mg/Kg	1	☼	6010C	Total/NA
Magnesium	1580		23.6	10.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	39.8		1.2	0.33	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.3		5.9	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	1050		35.4	28.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	123	J	165	72.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	9.4		0.59	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	47.4		2.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.0079	J	0.024	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-31 10-11 Ft
Lab Sample ID: 480-227331-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3680		11.4	9.8	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.4	J	2.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	9.9		0.57	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.17	J	0.23	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.18	J	0.23	0.079	mg/Kg	1	☼	6010C	Total/NA
Calcium	87800		284	153	mg/Kg	5	☼	6010C	Total/NA
Chromium	4.4		0.57	0.41	mg/Kg	1	☼	6010C	Total/NA
Cobalt	1.8		0.57	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	6.5		1.1	0.65	mg/Kg	1	☼	6010C	Total/NA
Iron	5540		11.4	9.6	mg/Kg	1	☼	6010C	Total/NA
Lead	5.9		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Magnesium	42700		22.7	9.6	mg/Kg	1	☼	6010C	Total/NA
Manganese	244		1.1	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	5.2	J	5.7	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1410		34.1	27.5	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.94	J	4.5	0.91	mg/Kg	1	☼	6010C	Total/NA
Sodium	246		159	69.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	7.4		0.57	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	24.9		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.062		0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-33 1-5 Ft
Lab Sample ID: 480-227331-1
Date Collected: 02/12/25 09:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.3	0.39	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,1,2,2-Tetrachloroethane	ND		5.3	0.87	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3	1.2	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,1,2-Trichloroethane	ND		5.3	0.69	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,1-Dichloroethane	ND		5.3	0.65	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,1-Dichloroethene	ND		5.3	0.65	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,2,4-Trichlorobenzene	ND		5.3	0.32	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,2,4-Trimethylbenzene	ND		5.3	1.0	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,2-Dibromo-3-Chloropropane	ND		5.3	2.7	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,2-Dichlorobenzene	ND		5.3	0.42	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,2-Dichloroethane	ND		5.3	0.27	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,2-Dichloropropane	ND		5.3	2.7	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,3,5-Trimethylbenzene	ND		5.3	0.34	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,3-Dichlorobenzene	ND		5.3	0.27	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,4-Dichlorobenzene	ND		5.3	0.75	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
2-Butanone (MEK)	**4.8**	**J**	27	2.0	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
2-Hexanone	ND		27	2.7	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
4-Isopropyltoluene	ND		5.3	0.43	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Acetone	**29**	**B**	27	4.5	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Benzene	ND		5.3	0.26	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Bromoform	ND		5.3	2.7	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Bromomethane	ND		5.3	0.48	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Carbon disulfide	ND		5.3	2.7	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Carbon tetrachloride	ND		5.3	0.52	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Chlorobenzene	ND		5.3	0.70	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Dibromochloromethane	ND		5.3	0.68	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Chloroethane	ND		5.3	1.2	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Chloroform	**0.48**	**J B**	5.3	0.33	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Chloromethane	ND		5.3	0.32	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
cis-1,2-Dichloroethene	ND		5.3	0.68	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Cyclohexane	ND		5.3	0.75	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Bromodichloromethane	ND		5.3	0.72	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Dichlorodifluoromethane	ND		5.3	0.44	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Ethylbenzene	ND		5.3	0.37	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
1,2-Dibromoethane	ND		5.3	0.69	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Isopropylbenzene	ND		5.3	0.80	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Methyl acetate	ND		27	3.2	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Methyl tert-butyl ether	ND		5.3	0.52	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Methylcyclohexane	ND		5.3	0.81	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Methylene Chloride	ND		5.3	2.5	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
m,p-Xylene	ND		11	0.90	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Naphthalene	ND		5.3	0.72	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
n-Butylbenzene	ND		5.3	0.46	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
N-Propylbenzene	ND		5.3	0.43	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
o-Xylene	ND		5.3	0.70	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
sec-Butylbenzene	ND		5.3	0.46	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Tetrachloroethene	ND		5.3	0.72	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Toluene	ND		5.3	0.40	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1

Client Sample ID: TP-33 1-5 Ft
Lab Sample ID: 480-227331-1
Date Collected: 02/12/25 09:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.3	0.55	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
trans-1,3-Dichloropropene	ND		5.3	2.3	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Trichloroethene	ND		5.3	1.2	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Trichlorofluoromethane	ND		5.3	0.50	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Vinyl chloride	ND		5.3	0.65	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Xylenes, Total	ND		11	0.90	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
cis-1,3-Dichloropropene	ND		5.3	0.77	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
Styrene	ND		5.3	0.27	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1
tert-Butylbenzene	ND		5.3	0.56	ug/Kg	☼	02/13/25 13:48	02/14/25 14:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/13/25 13:48*	*02/14/25 14:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*02/13/25 13:48*	*02/14/25 14:46*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*	*02/13/25 13:48*	*02/14/25 14:46*	*1*
Toluene-d8 (Surr)	*90*		*71 - 125*	*02/13/25 13:48*	*02/14/25 14:46*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*	*02/13/25 13:48*	*02/14/25 14:46*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		950	140	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
bis (2-chloroisopropyl) ether	ND		950	190	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2,4,5-Trichlorophenol	ND		950	260	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2,4,6-Trichlorophenol	ND		950	190	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2,4-Dichlorophenol	ND		950	100	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2,4-Dimethylphenol	ND		950	230	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2,4-Dinitrophenol	ND		9300	4400	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2,4-Dinitrotoluene	ND		950	200	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2,6-Dinitrotoluene	ND		950	110	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2-Chloronaphthalene	ND		950	160	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
1,4-Dioxane	ND		560	310	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2-Chlorophenol	ND		1800	170	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2-Methylnaphthalene	**190**	**J**	950	190	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2-Methylphenol	ND		950	110	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2-Nitroaniline	ND		1800	140	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
2-Nitrophenol	ND		950	270	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
3,3'-Dichlorobenzidine	ND		1800	1100	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
3-Nitroaniline	ND		1800	260	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
4,6-Dinitro-2-methylphenol	ND		1800	950	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
4-Bromophenyl phenyl ether	ND		950	130	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
4-Chloro-3-methylphenol	ND		950	230	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
4-Chloroaniline	ND		950	230	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
4-Chlorophenyl phenyl ether	ND		950	120	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
4-Methylphenol	ND		1800	110	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
4-Nitroaniline	ND		1800	500	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
4-Nitrophenol	ND		1800	660	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Acenaphthene	**470**	**J**	950	140	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Acenaphthylene	**210**	**J**	950	120	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Acetophenone	ND		950	130	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5

Client Sample ID: TP-33 1-5 Ft
Lab Sample ID: 480-227331-1
Date Collected: 02/12/25 09:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**1100**		950	230	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Atrazine	ND		950	330	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Benzaldehyde	ND		950	750	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Benzo[a]anthracene	**3200**		950	95	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Benzo[a]pyrene	**3000**		950	140	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Benzo[b]fluoranthene	**3600**		950	150	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Benzo[g,h,i]perylene	**1500**		950	100	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Benzo[k]fluoranthene	**1500**		950	120	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Bis(2-chloroethoxy)methane	ND		950	200	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Bis(2-chloroethyl)ether	ND		950	120	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Bis(2-ethylhexyl) phthalate	ND		950	320	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Butyl benzyl phthalate	ND		950	160	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Caprolactam	ND		950	280	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Carbazole	**380**	**J**	950	110	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Chrysene	**3100**		950	210	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Di-n-butyl phthalate	ND		950	160	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Di-n-octyl phthalate	ND		950	110	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Dibenz(a,h)anthracene	**480**	**J**	950	170	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Dibenzofuran	**320**	**J**	950	110	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Diethyl phthalate	ND		950	120	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Dimethyl phthalate	ND		950	110	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Fluoranthene	**6200**		950	100	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Fluorene	**450**	**J**	950	110	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Hexachlorobenzene	ND		950	130	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Hexachlorobutadiene	ND		950	140	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Hexachlorocyclopentadiene	ND		950	130	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Hexachloroethane	ND		950	120	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Indeno[1,2,3-cd]pyrene	**1300**		950	120	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Isophorone	ND		950	200	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
N-Nitrosodi-n-propylamine	ND		950	160	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
N-Nitrosodiphenylamine	ND		950	770	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Naphthalene	**180**	**J**	950	120	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Nitrobenzene	ND		950	110	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Pentachlorophenol	ND		1800	950	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Phenanthrene	**4700**		950	140	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Phenol	ND		950	150	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5
Pyrene	**5800**		950	110	ug/Kg	☼	02/20/25 06:53	02/21/25 14:33	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2600*	*T J*	*ug/Kg*	☼	*3.48*	*N/A*	*02/20/25 06:53*	*02/21/25 14:33*	*5*
Anthracene, 2-methyl-	*790*	*T J N*	*ug/Kg*	☼	*11.45*	*613-12-7*	*02/20/25 06:53*	*02/21/25 14:33*	*5*
Phenanthrene, 2-methyl-	*1000*	*T J N*	*ug/Kg*	☼	*11.48*	*2531-84-2*	*02/20/25 06:53*	*02/21/25 14:33*	*5*
Unknown	*1300*	*T J*	*ug/Kg*	☼	*11.55*	*N/A*	*02/20/25 06:53*	*02/21/25 14:33*	*5*
2-Phenylnaphthalene	*900*	*T J N*	*ug/Kg*	☼	*11.73*	*35465-71-5*	*02/20/25 06:53*	*02/21/25 14:33*	*5*
Chrysene, 3-methyl-	*760*	*T J N*	*ug/Kg*	☼	*13.68*	*3351-31-3*	*02/20/25 06:53*	*02/21/25 14:33*	*5*
Benzo[e]pyrene	*1800*	*T J N*	*ug/Kg*	☼	*14.43*	*192-97-2*	*02/20/25 06:53*	*02/21/25 14:33*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*26 - 143*	*02/20/25 06:53*	*02/21/25 14:33*	*5*
2-Fluorobiphenyl	*79*		*50 - 121*	*02/20/25 06:53*	*02/21/25 14:33*	*5*

Client Sample ID: TP-33 1-5 Ft
Lab Sample ID: 480-227331-1
Date Collected: 02/12/25 09:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		36 - 120	02/20/25 06:53	02/21/25 14:33	5
Nitrobenzene-d5	70		40 - 121	02/20/25 06:53	02/21/25 14:33	5
p-Terphenyl-d14	82		46 - 143	02/20/25 06:53	02/21/25 14:33	5
Phenol-d5	75		41 - 120	02/20/25 06:53	02/21/25 14:33	5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		19	3.6	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
4,4'-DDE	ND		19	3.9	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
4,4'-DDT	**5.6**	**J**	19	4.3	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Aldrin	ND		19	4.5	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
alpha-BHC	ND		19	3.3	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
cis-Chlordane	ND		19	9.2	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
beta-BHC	ND		19	3.3	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
delta-BHC	ND		19	3.4	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Dieldrin	ND		19	4.4	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Endosulfan I	ND		19	3.5	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Endosulfan II	ND		19	3.3	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Endosulfan sulfate	ND		19	3.4	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Endrin	**4.0**	**J**	19	3.7	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Endrin aldehyde	ND		19	4.7	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Endrin ketone	ND		19	4.5	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
gamma-BHC (Lindane)	ND		19	3.4	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
trans-Chlordane	ND		19	5.9	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Heptachlor	ND		19	4.0	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Heptachlor epoxide	ND		19	4.8	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Methoxychlor	ND		19	3.8	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10
Toxaphene	ND		190	110	ug/Kg	☼	02/20/25 13:01	02/21/25 10:48	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	209	S1+	45 - 120	02/20/25 13:01	02/21/25 10:48	10
DCB Decachlorobiphenyl	488	S1+	45 - 120	02/20/25 13:01	02/21/25 10:48	10
Tetrachloro-m-xylene	68		30 - 124	02/20/25 13:01	02/21/25 10:48	10
Tetrachloro-m-xylene	91		30 - 124	02/20/25 13:01	02/21/25 10:48	10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	02/17/25 07:09	02/18/25 14:46	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	02/17/25 07:09	02/18/25 14:46	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	02/17/25 07:09	02/18/25 14:46	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	02/17/25 07:09	02/18/25 14:46	1
PCB-1248	ND		0.27	0.052	mg/Kg	☼	02/17/25 07:09	02/18/25 14:46	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	02/17/25 07:09	02/18/25 14:46	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	02/17/25 07:09	02/18/25 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		60 - 154	02/17/25 07:09	02/18/25 14:46	1
Tetrachloro-m-xylene	104		60 - 154	02/17/25 07:09	02/18/25 14:46	1
DCB Decachlorobiphenyl	100		65 - 174	02/17/25 07:09	02/18/25 14:46	1
DCB Decachlorobiphenyl	108		65 - 174	02/17/25 07:09	02/18/25 14:46	1

Client Sample ID: TP-33 1-5 Ft
Date Collected: 02/12/25 09:00
Date Received: 02/12/25 16:06

Lab Sample ID: 480-227331-1
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.9	ug/Kg	☼	02/19/25 09:29	02/24/25 13:41	1
Silvex (2,4,5-TP)	ND		18	6.6	ug/Kg	☼	02/19/25 09:29	02/24/25 13:41	1
2,4-D	ND		18	12	ug/Kg	☼	02/19/25 09:29	02/24/25 13:41	1
Dichlorprop	ND		18	9.2	ug/Kg	☼	02/19/25 09:29	02/24/25 13:41	1
Pentachlorophenol	ND		18	6.0	ug/Kg	☼	02/19/25 09:29	02/24/25 13:41	1
Picloram	ND		18	7.9	ug/Kg	☼	02/19/25 09:29	02/24/25 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*02/19/25 09:29*	*02/24/25 13:41*	*1*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*02/19/25 09:29*	*02/24/25 13:41*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluoropentanoic acid (PFPeA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorohexanoic acid (PFHxA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluoroheptanoic acid (PFHpA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorooctanoic acid (PFOA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorononanoic acid (PFNA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorodecanoic acid (PFDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorododecanoic acid (PFDoA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorooctanesulfonic acid (PFOS)	**0.13**	**J**	0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorononanesulfonic acid (PFNS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.4	0.35	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1

Client Sample ID: TP-33 1-5 Ft
Lab Sample ID: 480-227331-1
Date Collected: 02/12/25 09:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.4

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.4	0.35	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.69	0.17	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.5	0.87	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.5	0.87	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/18/25 19:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C5 PFPeA	*91.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C5 PFHxA	*92.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C4 PFHpA	*98.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C8 PFOA	*88.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C9 PFNA	*99.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C6 PFDA	*91.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C7 PFUnA	*91.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C2 PFTeDA	*71.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C3 PFBS	*85.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C3 PFHxS	*87.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C8 PFOS	*81.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C8 PFOSA	*81.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
d3-NMeFOSAA	*89.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
d5-NEtFOSAA	*96.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
M2-4:2 FTS	*122*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
M2-6:2 FTS	*118*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
M2-8:2 FTS	*114*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C3 HFPO-DA	*96.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
d7-N-MeFOSE-M	*62.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
d9-N-EtFOSE-M	*59.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
d5-NEtPFOSA	*64.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
D3-NMeFOSA	*72.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*
13C2-PFDoDA	*83.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:11*	*1*

Client Sample ID: TP-33 1-5 Ft
Lab Sample ID: 480-227331-1

Date Collected: 02/12/25 09:00
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 89.4

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7030		11.2	9.7	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Antimony	ND		16.8	0.59	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Arsenic	15.1		2.2	0.99	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Barium	144		0.56	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Beryllium	0.39		0.22	0.045	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Cadmium	0.47		0.22	0.079	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Calcium	42200		56.1	30.3	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Chromium	12.2		0.56	0.40	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Cobalt	5.3		0.56	0.11	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Copper	92.3		1.1	0.64	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Iron	13400		11.2	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Lead	683		1.1	0.52	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Magnesium	11300		22.4	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Manganese	277		1.1	0.31	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Nickel	13.3		5.6	0.28	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Potassium	1530		33.6	27.2	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Selenium	ND		4.5	0.90	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Silver	0.42	J	0.67	0.22	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Sodium	216		157	68.8	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Thallium	ND		6.7	0.85	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Vanadium	16.9		0.56	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1
Zinc	321		2.2	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 18:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6		0.023	0.0053	mg/Kg	☼	02/14/25 10:25	02/14/25 12:50	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-33 5-9
Lab Sample ID: 480-227331-2
Date Collected: 02/12/25 09:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.6	0.41	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,1,2,2-Tetrachloroethane	ND		5.6	0.91	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.6	1.3	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,1,2-Trichloroethane	ND		5.6	0.73	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,1-Dichloroethane	ND		5.6	0.68	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,1-Dichloroethene	ND		5.6	0.68	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,2,4-Trichlorobenzene	ND		5.6	0.34	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,2,4-Trimethylbenzene	ND		5.6	1.1	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,2-Dibromo-3-Chloropropane	ND	F1	5.6	2.8	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,2-Dichlorobenzene	ND		5.6	0.44	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,2-Dichloroethane	ND		5.6	0.28	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,2-Dichloropropane	ND		5.6	2.8	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,3,5-Trimethylbenzene	ND		5.6	0.36	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,3-Dichlorobenzene	ND		5.6	0.29	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,4-Dichlorobenzene	ND		5.6	0.78	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
2-Butanone (MEK)	ND		28	2.0	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
2-Hexanone	ND		28	2.8	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
4-Isopropyltoluene	ND		5.6	0.45	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
4-Methyl-2-pentanone (MIBK)	ND		28	1.8	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Acetone	**21**	**J**	28	4.7	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Benzene	ND		5.6	0.27	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Bromoform	ND	F1	5.6	2.8	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Bromomethane	ND		5.6	0.50	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Carbon disulfide	ND		5.6	2.8	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Carbon tetrachloride	ND		5.6	0.54	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Chlorobenzene	ND		5.6	0.74	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Dibromochloromethane	ND	F1	5.6	0.72	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Chloroethane	ND		5.6	1.3	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Chloroform	**0.89**	**J B**	5.6	0.35	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Chloromethane	ND		5.6	0.34	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
cis-1,2-Dichloroethene	ND		5.6	0.72	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Cyclohexane	ND	F1	5.6	0.78	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Bromodichloromethane	ND		5.6	0.75	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Dichlorodifluoromethane	ND		5.6	0.46	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Ethylbenzene	ND		5.6	0.39	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
1,2-Dibromoethane	ND	F1	5.6	0.72	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Isopropylbenzene	ND		5.6	0.84	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Methyl acetate	ND		28	3.4	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Methyl tert-butyl ether	ND		5.6	0.55	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Methylcyclohexane	ND		5.6	0.85	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Methylene Chloride	ND		5.6	2.6	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
m,p-Xylene	ND		11	0.94	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Naphthalene	ND		5.6	0.75	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
n-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
N-Propylbenzene	ND		5.6	0.45	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
o-Xylene	ND		5.6	0.73	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
sec-Butylbenzene	ND	F1	5.6	0.49	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Tetrachloroethene	ND		5.6	0.75	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Toluene	**0.74**	**J**	5.6	0.42	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-33 5-9
Lab Sample ID: 480-227331-2
Date Collected: 02/12/25 09:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.6	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
trans-1,3-Dichloropropene	ND	F1	5.6	2.5	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Trichloroethene	ND		5.6	1.2	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Trichlorofluoromethane	ND		5.6	0.53	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Vinyl chloride	ND		5.6	0.68	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Xylenes, Total	ND		11	0.94	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
cis-1,3-Dichloropropene	ND		5.6	0.80	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
Styrene	ND		5.6	0.28	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1
tert-Butylbenzene	ND		5.6	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 18:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/13/25 13:23*	*02/13/25 18:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 126*	*02/13/25 13:23*	*02/13/25 18:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*02/13/25 13:23*	*02/13/25 18:48*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*02/13/25 13:23*	*02/13/25 18:48*	*1*
Dibromofluoromethane (Surr)	*121*		*60 - 140*	*02/13/25 13:23*	*02/13/25 18:48*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
1,4-Dioxane	ND		120	66	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2-Chlorophenol	ND		390	37	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2-Methylphenol	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
4-Methylphenol	ND		390	24	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Acenaphthene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Acenaphthylene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Acetophenone	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1

Client Sample ID: TP-33 5-9
Date Collected: 02/12/25 09:30
Date Received: 02/12/25 16:06

Lab Sample ID: 480-227331-2
Matrix: Solid
Percent Solids: 83.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		200	50	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Atrazine	ND		200	70	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Caprolactam	ND		200	61	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Carbazole	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Chrysene	ND		200	45	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Dibenzofuran	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Fluoranthene	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Fluorene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Hexachloroethane	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Isophorone	ND		200	43	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Naphthalene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Nitrobenzene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Phenanthrene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Phenol	ND		200	31	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1
Pyrene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 13:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2700*	*T J*	*ug/Kg*	☼	*1.89*	*N/A*	*02/20/25 06:53*	*02/21/25 13:57*	*1*
Unknown	*3400*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/20/25 06:53*	*02/21/25 13:57*	*1*
Unknown	*3000*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/20/25 06:53*	*02/21/25 13:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*26 - 143*	*02/20/25 06:53*	*02/21/25 13:57*	*1*
2-Fluorobiphenyl	*93*		*50 - 121*	*02/20/25 06:53*	*02/21/25 13:57*	*1*
2-Fluorophenol	*79*		*36 - 120*	*02/20/25 06:53*	*02/21/25 13:57*	*1*
Nitrobenzene-d5	*86*		*40 - 121*	*02/20/25 06:53*	*02/21/25 13:57*	*1*
p-Terphenyl-d14	*105*		*46 - 143*	*02/20/25 06:53*	*02/21/25 13:57*	*1*
Phenol-d5	*90*		*41 - 120*	*02/20/25 06:53*	*02/21/25 13:57*	*1*

Client Sample ID: TP-33 5-9
Date Collected: 02/12/25 09:30
Date Received: 02/12/25 16:06

Lab Sample ID: 480-227331-2
Matrix: Solid
Percent Solids: 83.5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
4,4'-DDE	ND		2.0	0.42	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
cis-Chlordane	ND		2.0	0.99	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Endrin	ND		2.0	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
trans-Chlordane	ND		2.0	0.63	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1
Toxaphene	ND		20	12	ug/Kg	☼	02/20/25 13:01	02/21/25 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*45 - 120*	*02/20/25 13:01*	*02/21/25 10:29*	*1*
DCB Decachlorobiphenyl	*99*		*45 - 120*	*02/20/25 13:01*	*02/21/25 10:29*	*1*
Tetrachloro-m-xylene	*86*		*30 - 124*	*02/20/25 13:01*	*02/21/25 10:29*	*1*
Tetrachloro-m-xylene	*82*		*30 - 124*	*02/20/25 13:01*	*02/21/25 10:29*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	02/17/25 07:09	02/18/25 13:15	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	02/17/25 07:09	02/18/25 13:15	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	02/17/25 07:09	02/18/25 13:15	1
PCB-1242	ND		0.27	0.053	mg/Kg	☼	02/17/25 07:09	02/18/25 13:15	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	02/17/25 07:09	02/18/25 13:15	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	02/17/25 07:09	02/18/25 13:15	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	02/17/25 07:09	02/18/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*60 - 154*	*02/17/25 07:09*	*02/18/25 13:15*	*1*
Tetrachloro-m-xylene	*103*		*60 - 154*	*02/17/25 07:09*	*02/18/25 13:15*	*1*
DCB Decachlorobiphenyl	*104*		*65 - 174*	*02/17/25 07:09*	*02/18/25 13:15*	*1*
DCB Decachlorobiphenyl	*110*		*65 - 174*	*02/17/25 07:09*	*02/18/25 13:15*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.3	ug/Kg	☼	02/19/25 09:29	02/24/25 13:23	1
Silvex (2,4,5-TP)	ND		20	7.1	ug/Kg	☼	02/19/25 09:29	02/24/25 13:23	1
2,4-D	ND		20	12	ug/Kg	☼	02/19/25 09:29	02/24/25 13:23	1
Dichlorprop	ND		20	9.8	ug/Kg	☼	02/19/25 09:29	02/24/25 13:23	1

Client Sample ID: TP-33 5-9
Date Collected: 02/12/25 09:30
Date Received: 02/12/25 16:06

Lab Sample ID: 480-227331-2
Matrix: Solid
Percent Solids: 83.5

Method: SW846 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		20	6.4	ug/Kg	☼	02/19/25 09:29	02/24/25 13:23	1
Picloram	ND		20	8.4	ug/Kg	☼	02/19/25 09:29	02/24/25 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*02/19/25 09:29*	*02/24/25 13:23*	*1*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*	*02/19/25 09:29*	*02/24/25 13:23*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluoropentanoic acid (PFPeA)	ND		0.30	0.075	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorohexanoic acid (PFHxA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluoroheptanoic acid (PFHpA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorooctanoic acid (PFOA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorononanoic acid (PFNA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorodecanoic acid (PFDA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluoroundecanoic acid (PFUnA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorododecanoic acid (PFDoA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorononanesulfonic acid (PFNS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorododecanesulfonic acid (PFDoS)	ND	F2	0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.5	0.37	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.5	0.37	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1

Client Sample ID: TP-33 5-9
Date Collected: 02/12/25 09:30
Date Received: 02/12/25 16:06

Lab Sample ID: 480-227331-2
Matrix: Solid
Percent Solids: 83.5

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.30	0.075	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.30	0.075	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.30	0.075	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.75	0.19	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.7	0.94	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.7	0.94	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.30	0.075	ug/Kg	☼	02/17/25 08:26	02/18/25 19:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C5 PFPeA	*89.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C5 PFHxA	*95.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C4 PFHpA	*99.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C8 PFOA	*87.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C9 PFNA	*101*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C6 PFDA	*92.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C7 PFUnA	*93.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C2 PFTeDA	*74.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C3 PFBS	*89.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C3 PFHxS	*87.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C8 PFOS	*90.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C8 PFOSA	*83.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
d3-NMeFOSAA	*87.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
d5-NEtFOSAA	*114*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
M2-4:2 FTS	*109*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
M2-6:2 FTS	*119*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
M2-8:2 FTS	*113*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C3 HFPO-DA	*99.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
d7-N-MeFOSE-M	*72.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
d9-N-EtFOSE-M	*71.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
d5-NEtPFOSA	*64.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
D3-NMeFOSA	*69.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*
13C2-PFDoDA	*85.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 19:27*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6910**		11.6	10	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Antimony	ND		17.3	0.61	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Arsenic	ND		2.3	1.0	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Barium	**18.0**		0.58	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Beryllium	**0.32**		0.23	0.046	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1

Client Sample ID: TP-33 5-9
Lab Sample ID: 480-227331-2
Date Collected: 02/12/25 09:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.5

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.23	0.081	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Calcium	**101000**		289	156	mg/Kg	☼	02/14/25 12:34	02/18/25 15:14	5
Chromium	**9.1**		0.58	0.42	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Cobalt	**3.1**		0.58	0.12	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Copper	**10.8**		1.2	0.66	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Iron	**6980**		11.6	9.8	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Lead	**9.4**		1.2	0.53	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Magnesium	**61700**		116	49.0	mg/Kg	☼	02/14/25 12:34	02/18/25 15:14	5
Manganese	**156**		1.2	0.32	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Nickel	**8.8**		5.8	0.29	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Potassium	**2680**		34.7	28.0	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Selenium	ND		4.6	0.92	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Silver	ND		0.69	0.23	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Sodium	**209**		162	70.9	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Thallium	ND		6.9	0.88	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Vanadium	**13.4**		0.58	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1
Zinc	**29.7**		2.3	1.2	mg/Kg	☼	02/14/25 12:34	02/17/25 18:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.065**		0.024	0.0056	mg/Kg	☼	02/14/25 10:25	02/14/25 12:51	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-33 10-11 Ft
Lab Sample ID: 480-227331-3
Date Collected: 02/12/25 10:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 76.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.6	0.41	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,1,2,2-Tetrachloroethane	ND		5.6	0.91	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.6	1.3	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,1,2-Trichloroethane	ND		5.6	0.73	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,1-Dichloroethane	ND		5.6	0.68	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,1-Dichloroethene	ND		5.6	0.69	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,2,4-Trichlorobenzene	ND		5.6	0.34	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,2,4-Trimethylbenzene	ND		5.6	1.1	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,2-Dibromo-3-Chloropropane	ND		5.6	2.8	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,2-Dichlorobenzene	ND		5.6	0.44	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,2-Dichloroethane	ND		5.6	0.28	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,2-Dichloropropane	ND		5.6	2.8	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,3,5-Trimethylbenzene	ND		5.6	0.36	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,3-Dichlorobenzene	ND		5.6	0.29	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,4-Dichlorobenzene	ND		5.6	0.78	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
2-Butanone (MEK)	ND		28	2.0	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
2-Hexanone	ND		28	2.8	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
4-Isopropyltoluene	ND		5.6	0.45	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
4-Methyl-2-pentanone (MIBK)	ND		28	1.8	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Acetone	ND		28	4.7	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Benzene	ND		5.6	0.27	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Bromoform	ND		5.6	2.8	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Bromomethane	ND		5.6	0.50	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Carbon disulfide	ND		5.6	2.8	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Carbon tetrachloride	ND		5.6	0.54	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Chlorobenzene	ND		5.6	0.74	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Dibromochloromethane	ND		5.6	0.72	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Chloroethane	ND		5.6	1.3	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Chloroform	**0.93**	**J B**	5.6	0.35	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Chloromethane	ND		5.6	0.34	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
cis-1,2-Dichloroethene	ND		5.6	0.72	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Cyclohexane	ND		5.6	0.78	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Bromodichloromethane	ND		5.6	0.75	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Dichlorodifluoromethane	ND		5.6	0.46	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Ethylbenzene	ND		5.6	0.39	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
1,2-Dibromoethane	ND		5.6	0.72	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Isopropylbenzene	ND		5.6	0.84	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Methyl acetate	ND		28	3.4	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Methyl tert-butyl ether	ND		5.6	0.55	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Methylcyclohexane	ND		5.6	0.85	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Methylene Chloride	ND		5.6	2.6	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
m,p-Xylene	ND		11	0.94	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Naphthalene	ND		5.6	0.75	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
n-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
N-Propylbenzene	ND		5.6	0.45	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
o-Xylene	ND		5.6	0.73	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
sec-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Tetrachloroethene	ND		5.6	0.75	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Toluene	ND		5.6	0.42	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1

Client Sample ID: TP-33 10-11 Ft
Lab Sample ID: 480-227331-3
Date Collected: 02/12/25 10:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 76.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.6	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
trans-1,3-Dichloropropene	ND		5.6	2.5	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Trichloroethene	ND		5.6	1.2	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Trichlorofluoromethane	ND		5.6	0.53	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Vinyl chloride	ND		5.6	0.68	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Xylenes, Total	ND		11	0.94	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
cis-1,3-Dichloropropene	ND		5.6	0.81	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
Styrene	ND		5.6	0.28	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1
tert-Butylbenzene	ND		5.6	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 20:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/13/25 13:23*	*02/13/25 20:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*	*02/13/25 13:23*	*02/13/25 20:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*02/13/25 13:23*	*02/13/25 20:36*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*02/13/25 13:23*	*02/13/25 20:36*	*1*
Dibromofluoromethane (Surr)	*112*		*60 - 140*	*02/13/25 13:23*	*02/13/25 20:36*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		220	32	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
bis (2-chloroisopropyl) ether	ND		220	44	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2,4,5-Trichlorophenol	ND		220	59	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2,4,6-Trichlorophenol	ND		220	44	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2,4-Dichlorophenol	ND		220	23	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2,4-Dimethylphenol	ND		220	53	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2,4-Dinitrophenol	ND		2100	1000	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2,4-Dinitrotoluene	ND		220	45	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2,6-Dinitrotoluene	ND		220	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2-Chloronaphthalene	ND		220	36	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
1,4-Dioxane	ND		130	71	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2-Chlorophenol	ND		420	40	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2-Methylnaphthalene	ND		220	44	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2-Methylphenol	ND		220	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2-Nitroaniline	ND		420	32	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
2-Nitrophenol	ND		220	62	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
3,3'-Dichlorobenzidine	ND		420	260	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
3-Nitroaniline	ND		420	60	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
4,6-Dinitro-2-methylphenol	ND		420	220	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
4-Bromophenyl phenyl ether	ND		220	31	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
4-Chloro-3-methylphenol	ND		220	54	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
4-Chloroaniline	ND		220	54	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
4-Chlorophenyl phenyl ether	ND		220	27	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
4-Methylphenol	ND		420	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
4-Nitroaniline	ND		420	110	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
4-Nitrophenol	ND		420	150	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Acenaphthene	ND		220	32	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Acenaphthylene	ND		220	28	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Acetophenone	ND		220	30	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1

Client Sample ID: TP-33 10-11 Ft
Lab Sample ID: 480-227331-3

Date Collected: 02/12/25 10:00
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 76.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		220	54	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Atrazine	ND		220	76	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Benzaldehyde	ND		220	170	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Benzo[a]anthracene	ND		220	22	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Benzo[a]pyrene	ND		220	32	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Benzo[b]fluoranthene	ND		220	35	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Benzo[g,h,i]perylene	ND		220	23	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Benzo[k]fluoranthene	ND		220	28	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Bis(2-chloroethoxy)methane	ND		220	46	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Bis(2-chloroethyl)ether	ND		220	28	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Bis(2-ethylhexyl) phthalate	ND		220	74	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Butyl benzyl phthalate	ND		220	36	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Caprolactam	ND		220	65	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Carbazole	ND		220	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Chrysene	ND		220	49	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Di-n-butyl phthalate	ND		220	37	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Di-n-octyl phthalate	ND		220	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Dibenz(a,h)anthracene	ND		220	39	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Dibenzofuran	ND		220	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Diethyl phthalate	ND		220	28	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Dimethyl phthalate	ND		220	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Fluoranthene	ND		220	23	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Fluorene	ND		220	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Hexachlorobenzene	ND		220	30	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Hexachlorobutadiene	ND		220	32	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Hexachlorocyclopentadiene	ND		220	30	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Hexachloroethane	ND		220	28	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Indeno[1,2,3-cd]pyrene	ND		220	27	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Isophorone	ND		220	46	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
N-Nitrosodi-n-propylamine	ND		220	37	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
N-Nitrosodiphenylamine	ND		220	180	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Naphthalene	ND		220	28	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Nitrobenzene	ND		220	24	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Pentachlorophenol	ND		420	220	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Phenanthrene	ND		220	32	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Phenol	ND		220	33	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1
Pyrene	ND		220	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2400*	*T J*	*ug/Kg*	☼	*1.87*	*N/A*	*02/20/25 06:53*	*02/21/25 15:08*	*1*
Unknown	*3300*	*T J*	*ug/Kg*	☼	*1.99*	*N/A*	*02/20/25 06:53*	*02/21/25 15:08*	*1*
Unknown	*3800*	*T J*	*ug/Kg*	☼	*3.46*	*N/A*	*02/20/25 06:53*	*02/21/25 15:08*	*1*
Heneicosane	*290*	*T J N*	*ug/Kg*	☼	*13.24*	*629-94-7*	*02/20/25 06:53*	*02/21/25 15:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*26 - 143*	*02/20/25 06:53*	*02/21/25 15:08*	*1*
2-Fluorobiphenyl	*92*		*50 - 121*	*02/20/25 06:53*	*02/21/25 15:08*	*1*
2-Fluorophenol	*78*		*36 - 120*	*02/20/25 06:53*	*02/21/25 15:08*	*1*
Nitrobenzene-d5	*85*		*40 - 121*	*02/20/25 06:53*	*02/21/25 15:08*	*1*
p-Terphenyl-d14	*104*		*46 - 143*	*02/20/25 06:53*	*02/21/25 15:08*	*1*

Client Sample ID: TP-33 10-11 Ft
Lab Sample ID: 480-227331-3

Date Collected: 02/12/25 10:00
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 76.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	*86*		*41 - 120*	*02/20/25 06:53*	*02/21/25 15:08*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.2	0.42	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
4,4'-DDE	ND		2.2	0.45	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
4,4'-DDT	ND		2.2	0.50	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Aldrin	ND		2.2	0.53	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
alpha-BHC	ND		2.2	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
cis-Chlordane	ND		2.2	1.1	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
beta-BHC	ND		2.2	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
delta-BHC	ND		2.2	0.40	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Dieldrin	ND		2.2	0.52	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Endosulfan I	ND		2.2	0.41	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Endosulfan II	ND		2.2	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Endosulfan sulfate	ND		2.2	0.40	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Endrin	ND		2.2	0.43	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Endrin aldehyde	ND		2.2	0.55	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Endrin ketone	ND		2.2	0.53	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
gamma-BHC (Lindane)	ND		2.2	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
trans-Chlordane	ND		2.2	0.68	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Heptachlor	ND		2.2	0.47	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Heptachlor epoxide	ND		2.2	0.55	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Methoxychlor	ND		2.2	0.44	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1
Toxaphene	ND		22	13	ug/Kg	☼	02/20/25 13:01	02/21/25 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*91*		*45 - 120*	*02/20/25 13:01*	*02/21/25 11:08*	*1*
DCB Decachlorobiphenyl	*100*		*45 - 120*	*02/20/25 13:01*	*02/21/25 11:08*	*1*
Tetrachloro-m-xylene	*84*		*30 - 124*	*02/20/25 13:01*	*02/21/25 11:08*	*1*
Tetrachloro-m-xylene	*83*		*30 - 124*	*02/20/25 13:01*	*02/21/25 11:08*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.046	mg/Kg	☼	02/17/25 07:09	02/18/25 15:05	1
PCB-1221	ND		0.23	0.046	mg/Kg	☼	02/17/25 07:09	02/18/25 15:05	1
PCB-1232	ND		0.23	0.046	mg/Kg	☼	02/17/25 07:09	02/18/25 15:05	1
PCB-1242	ND		0.23	0.046	mg/Kg	☼	02/17/25 07:09	02/18/25 15:05	1
PCB-1248	ND		0.23	0.046	mg/Kg	☼	02/17/25 07:09	02/18/25 15:05	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	02/17/25 07:09	02/18/25 15:05	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	02/17/25 07:09	02/18/25 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*101*		*60 - 154*	*02/17/25 07:09*	*02/18/25 15:05*	*1*
Tetrachloro-m-xylene	*107*		*60 - 154*	*02/17/25 07:09*	*02/18/25 15:05*	*1*
DCB Decachlorobiphenyl	*103*		*65 - 174*	*02/17/25 07:09*	*02/18/25 15:05*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*02/17/25 07:09*	*02/18/25 15:05*	*1*

Client Sample ID: TP-33 10-11 Ft
Lab Sample ID: 480-227331-3

Date Collected: 02/12/25 10:00
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 76.7

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		21	6.8	ug/Kg	☼	02/19/25 09:29	02/24/25 14:00	1
Silvex (2,4,5-TP)	ND		21	7.6	ug/Kg	☼	02/19/25 09:29	02/24/25 14:00	1
2,4-D	ND		21	13	ug/Kg	☼	02/19/25 09:29	02/24/25 14:00	1
Dichlorprop	ND		21	11	ug/Kg	☼	02/19/25 09:29	02/24/25 14:00	1
Pentachlorophenol	ND		21	6.9	ug/Kg	☼	02/19/25 09:29	02/24/25 14:00	1
Picloram	ND		21	9.1	ug/Kg	☼	02/19/25 09:29	02/24/25 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*02/19/25 09:29*	*02/24/25 14:00*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*02/19/25 09:29*	*02/24/25 14:00*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.64	0.16	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluoropentanoic acid (PFPeA)	ND		0.32	0.080	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorohexanoic acid (PFHxA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluoroheptanoic acid (PFHpA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorooctanoic acid (PFOA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorononanoic acid (PFNA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorodecanoic acid (PFDA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluoroundecanoic acid (PFUnA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorododecanoic acid (PFDoA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorooctanesulfonic acid (PFOS)	**0.051**	**J**	0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorononanesulfonic acid (PFNS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.64	0.16	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.64	0.16	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.64	0.16	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.6	0.40	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1

Client Sample ID: TP-33 10-11 Ft
Lab Sample ID: 480-227331-3
Date Collected: 02/12/25 10:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 76.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.6	0.40	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.64	0.16	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.64	0.16	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.32	0.080	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.32	0.080	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.64	0.16	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.64	0.16	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.32	0.080	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.80	0.20	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.0	1.0	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.0	1.0	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.32	0.080	ug/Kg	☼	02/17/25 08:26	02/18/25 20:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C5 PFPeA	*86.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C5 PFHxA	*94.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C4 PFHpA	*97.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C8 PFOA	*87.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C9 PFNA	*101*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C6 PFDA	*93.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C7 PFUnA	*93.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C2 PFTeDA	*79.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C3 PFBS	*85.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C3 PFHxS	*87.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C8 PFOS	*83.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C8 PFOSA	*79.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
d3-NMeFOSAA	*75.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
d5-NEtFOSAA	*99.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
M2-4:2 FTS	*100*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
M2-6:2 FTS	*106*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
M2-8:2 FTS	*97.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C3 HFPO-DA	*96.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
d7-N-MeFOSE-M	*54.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
d9-N-EtFOSE-M	*54.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
d5-NEtPFOSA	*57.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
D3-NMeFOSA	*67.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*
13C2-PFDoDA	*83.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:17*	*1*

Client Sample ID: TP-33 10-11 Ft
Lab Sample ID: 480-227331-3

Date Collected: 02/12/25 10:00
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 76.7

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4330**		13.4	11.6	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Antimony	ND		20.1	0.71	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Arsenic	**2.1**	**J**	2.7	1.2	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Barium	**11.4**		0.67	0.19	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Beryllium	**0.20**	**J**	0.27	0.054	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Cadmium	**0.16**	**J**	0.27	0.094	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Calcium	**82800**		67.0	36.2	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Chromium	**5.3**		0.67	0.48	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Cobalt	**1.9**		0.67	0.13	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Copper	**6.3**		1.3	0.76	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Iron	**5990**		13.4	11.4	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Lead	**6.3**		1.3	0.62	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Magnesium	**44300**		26.8	11.4	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Manganese	**241**		1.3	0.38	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Nickel	**5.8**	**J**	6.7	0.34	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Potassium	**1630**		40.2	32.5	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Selenium	ND		5.4	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Silver	ND		0.80	0.27	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Sodium	**289**		188	82.2	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Thallium	ND		8.0	1.0	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Vanadium	**8.2**		0.67	0.17	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1
Zinc	**27.3**		2.7	1.4	mg/Kg	☼	02/14/25 12:34	02/17/25 18:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.056**		0.026	0.0059	mg/Kg	☼	02/14/25 10:25	02/14/25 12:56	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: MW-2 0.5-3.5 Ft
Lab Sample ID: 480-227331-4
Date Collected: 02/12/25 11:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 93.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,1,2,2-Tetrachloroethane	ND		5.1	0.83	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1	1.2	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,1,2-Trichloroethane	ND		5.1	0.67	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,1-Dichloroethane	ND		5.1	0.63	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,1-Dichloroethene	ND		5.1	0.63	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,2,4-Trimethylbenzene	ND		5.1	0.99	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.6	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,2-Dichlorobenzene	ND		5.1	0.40	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,2-Dichloroethane	ND		5.1	0.26	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,2-Dichloropropane	ND		5.1	2.6	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,3,5-Trimethylbenzene	ND		5.1	0.33	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,3-Dichlorobenzene	ND		5.1	0.26	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,4-Dichlorobenzene	ND		5.1	0.72	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
4-Isopropyltoluene	ND		5.1	0.41	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Acetone	ND		26	4.3	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Benzene	ND		5.1	0.25	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Bromoform	ND		5.1	2.6	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Bromomethane	ND		5.1	0.46	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Carbon disulfide	ND		5.1	2.6	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Carbon tetrachloride	ND		5.1	0.50	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Chlorobenzene	ND		5.1	0.68	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Dibromochloromethane	ND		5.1	0.66	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Chloroethane	ND		5.1	1.2	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Chloroform	**0.94**	**J B**	5.1	0.32	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Chloromethane	ND		5.1	0.31	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
cis-1,2-Dichloroethene	ND		5.1	0.66	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Cyclohexane	ND		5.1	0.72	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Bromodichloromethane	ND		5.1	0.69	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Dichlorodifluoromethane	ND		5.1	0.42	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Ethylbenzene	ND		5.1	0.35	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
1,2-Dibromoethane	ND		5.1	0.66	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Isopropylbenzene	ND		5.1	0.77	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Methyl acetate	ND		26	3.1	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Methyl tert-butyl ether	ND		5.1	0.50	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Methylcyclohexane	ND		5.1	0.78	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Methylene Chloride	ND		5.1	2.4	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
m,p-Xylene	ND		10	0.86	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Naphthalene	ND		5.1	0.69	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
n-Butylbenzene	ND		5.1	0.45	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
N-Propylbenzene	ND		5.1	0.41	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
o-Xylene	ND		5.1	0.67	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
sec-Butylbenzene	ND		5.1	0.45	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Tetrachloroethene	ND		5.1	0.69	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Toluene	ND		5.1	0.39	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1

Client: Roux Environmental Engineering and Geology DPC
Project/Site: North Aud Block

Job ID: 480-227331-1

Client Sample ID: MW-2 0.5-3.5 Ft
Date Collected: 02/12/25 11:00
Date Received: 02/12/25 16:06

Lab Sample ID: 480-227331-4
Matrix: Solid
Percent Solids: 93.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.1	0.53	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
trans-1,3-Dichloropropene	ND		5.1	2.3	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Trichloroethene	ND		5.1	1.1	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Trichlorofluoromethane	ND		5.1	0.49	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Vinyl chloride	ND		5.1	0.63	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Xylenes, Total	ND		10	0.86	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
cis-1,3-Dichloropropene	ND		5.1	0.74	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
Styrene	ND		5.1	0.26	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1
tert-Butylbenzene	ND		5.1	0.53	ug/Kg	☼	02/13/25 13:23	02/13/25 21:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5.7*	*T J*	*ug/Kg*	☼	*11.38*	*N/A*	*02/13/25 13:23*	*02/13/25 21:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*02/13/25 13:23*	*02/13/25 21:02*	*1*
4-Bromofluorobenzene (Surr)	*87*		*72 - 126*	*02/13/25 13:23*	*02/13/25 21:02*	*1*
Toluene-d8 (Surr)	*104*		*71 - 125*	*02/13/25 13:23*	*02/13/25 21:02*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*	*02/13/25 13:23*	*02/13/25 21:02*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		180	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
bis (2-chloroisopropyl) ether	ND		180	36	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2,4,5-Trichlorophenol	ND		180	48	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2,4,6-Trichlorophenol	ND		180	36	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2,4-Dichlorophenol	ND		180	19	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2,4-Dimethylphenol	ND		180	43	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2,4-Dinitrophenol	ND		1700	820	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2,4-Dinitrotoluene	ND		180	37	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2,6-Dinitrotoluene	ND		180	21	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2-Chloronaphthalene	ND		180	29	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
1,4-Dioxane	ND		100	58	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2-Chlorophenol	ND		350	33	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2-Methylnaphthalene	ND		180	36	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2-Methylphenol	ND		180	21	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2-Nitroaniline	ND		350	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
2-Nitrophenol	ND		180	50	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
3,3'-Dichlorobenzidine	ND		350	210	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
3-Nitroaniline	ND		350	49	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
4,6-Dinitro-2-methylphenol	ND		350	180	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
4-Bromophenyl phenyl ether	ND		180	25	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
4-Chloro-3-methylphenol	ND		180	44	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
4-Chloroaniline	ND		180	44	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
4-Chlorophenyl phenyl ether	ND		180	22	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
4-Methylphenol	ND		350	21	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
4-Nitroaniline	ND		350	93	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
4-Nitrophenol	ND		350	120	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Acenaphthene	ND		180	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Acenaphthylene	ND		180	23	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Acetophenone	ND		180	24	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1

Client Sample ID: MW-2 0.5-3.5 Ft
Lab Sample ID: 480-227331-4
Date Collected: 02/12/25 11:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 93.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**59**	**J**	180	44	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Atrazine	ND		180	62	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Benzaldehyde	ND		180	140	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Benzo[a]anthracene	**170**	**J**	180	18	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Benzo[a]pyrene	**160**	**J**	180	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Benzo[b]fluoranthene	**190**		180	28	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Benzo[g,h,i]perylene	**94**	**J**	180	19	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Benzo[k]fluoranthene	**100**	**J**	180	23	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Bis(2-chloroethoxy)methane	ND		180	38	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Bis(2-chloroethyl)ether	ND		180	23	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Bis(2-ethylhexyl) phthalate	ND		180	61	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Butyl benzyl phthalate	ND		180	29	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Caprolactam	ND		180	54	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Carbazole	**25**	**J**	180	21	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Chrysene	**180**		180	40	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Di-n-butyl phthalate	ND		180	30	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Di-n-octyl phthalate	ND		180	21	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Dibenz(a,h)anthracene	ND		180	31	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Dibenzofuran	ND		180	21	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Diethyl phthalate	ND		180	23	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Dimethyl phthalate	ND		180	21	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Fluoranthene	**380**		180	19	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Fluorene	**24**	**J**	180	21	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Hexachlorobenzene	ND		180	24	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Hexachlorobutadiene	ND		180	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Hexachlorocyclopentadiene	ND		180	24	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Hexachloroethane	ND		180	23	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Indeno[1,2,3-cd]pyrene	**74**	**J**	180	22	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Isophorone	ND		180	38	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
N-Nitrosodi-n-propylamine	ND		180	30	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
N-Nitrosodiphenylamine	ND		180	140	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Naphthalene	ND		180	23	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Nitrobenzene	ND		180	20	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Pentachlorophenol	ND		350	180	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Phenanthrene	**260**		180	26	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Phenol	ND		180	27	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1
Pyrene	**320**		180	21	ug/Kg	☼	02/20/25 06:53	02/21/25 15:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2700*	*T J*	*ug/Kg*	☼	*1.90*	*N/A*	*02/20/25 06:53*	*02/21/25 15:36*	*1*
Unknown	*3100*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/20/25 06:53*	*02/21/25 15:36*	*1*
Unknown	*2900*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/20/25 06:53*	*02/21/25 15:36*	*1*
1-Octadecanethiol	*170*	*T J N*	*ug/Kg*	☼	*13.78*	*2885-00-9*	*02/20/25 06:53*	*02/21/25 15:36*	*1*
E-7-Octadecene	*370*	*T J N*	*ug/Kg*	☼	*14.29*	*1000130-92-0*	*02/20/25 06:53*	*02/21/25 15:36*	*1*
Stigmasterol, 22,23-dihydro-	*320*	*T J N*	*ug/Kg*	☼	*15.77*	*1000214-20-7*	*02/20/25 06:53*	*02/21/25 15:36*	*1*
Unknown	*210*	*T J*	*ug/Kg*	☼	*15.82*	*N/A*	*02/20/25 06:53*	*02/21/25 15:36*	*1*
Friedelin	*310*	*T J N*	*ug/Kg*	☼	*16.94*	*559-74-0*	*02/20/25 06:53*	*02/21/25 15:36*	*1*

Client Sample ID: MW-2 0.5-3.5 Ft
Lab Sample ID: 480-227331-4

Date Collected: 02/12/25 11:00
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 93.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		26 - 143	02/20/25 06:53	02/21/25 15:36	1
2-Fluorobiphenyl	94		50 - 121	02/20/25 06:53	02/21/25 15:36	1
2-Fluorophenol	82		36 - 120	02/20/25 06:53	02/21/25 15:36	1
Nitrobenzene-d5	89		40 - 121	02/20/25 06:53	02/21/25 15:36	1
p-Terphenyl-d14	97		46 - 143	02/20/25 06:53	02/21/25 15:36	1
Phenol-d5	94		41 - 120	02/20/25 06:53	02/21/25 15:36	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		8.9	1.7	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
4,4'-DDE	ND		8.9	1.9	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
4,4'-DDT	ND		8.9	2.1	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Aldrin	ND		8.9	2.2	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
alpha-BHC	ND		8.9	1.6	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
cis-Chlordane	ND		8.9	4.4	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
beta-BHC	ND		8.9	1.6	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
delta-BHC	ND		8.9	1.7	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Dieldrin	ND		8.9	2.1	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Endosulfan I	ND		8.9	1.7	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Endosulfan II	ND		8.9	1.6	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Endosulfan sulfate	ND		8.9	1.7	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Endrin	ND		8.9	1.8	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Endrin aldehyde	ND		8.9	2.3	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Endrin ketone	ND		8.9	2.2	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
gamma-BHC (Lindane)	ND		8.9	1.6	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
trans-Chlordane	ND		8.9	2.8	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Heptachlor	ND		8.9	1.9	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Heptachlor epoxide	ND		8.9	2.3	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Methoxychlor	ND		8.9	1.8	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5
Toxaphene	ND		89	52	ug/Kg	☼	02/20/25 13:01	02/21/25 11:27	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		45 - 120	02/20/25 13:01	02/21/25 11:27	5
DCB Decachlorobiphenyl	147	S1+	45 - 120	02/20/25 13:01	02/21/25 11:27	5
Tetrachloro-m-xylene	66		30 - 124	02/20/25 13:01	02/21/25 11:27	5
Tetrachloro-m-xylene	75		30 - 124	02/20/25 13:01	02/21/25 11:27	5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 15:23	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 15:23	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 15:23	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 15:23	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 15:23	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	02/17/25 07:09	02/18/25 15:23	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	02/17/25 07:09	02/18/25 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		60 - 154	02/17/25 07:09	02/18/25 15:23	1
Tetrachloro-m-xylene	107		60 - 154	02/17/25 07:09	02/18/25 15:23	1
DCB Decachlorobiphenyl	104		65 - 174	02/17/25 07:09	02/18/25 15:23	1

Client Sample ID: MW-2 0.5-3.5 Ft
Lab Sample ID: 480-227331-4
Date Collected: 02/12/25 11:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 93.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*65 - 174*	*02/17/25 07:09*	*02/18/25 15:23*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.7	ug/Kg	☼	02/19/25 09:29	02/24/25 14:18	1
Silvex (2,4,5-TP)	ND		18	6.4	ug/Kg	☼	02/19/25 09:29	02/24/25 14:18	1
2,4-D	ND		18	11	ug/Kg	☼	02/19/25 09:29	02/24/25 14:18	1
Dichlorprop	ND		18	8.9	ug/Kg	☼	02/19/25 09:29	02/24/25 14:18	1
Pentachlorophenol	ND		18	5.8	ug/Kg	☼	02/19/25 09:29	02/24/25 14:18	1
Picloram	ND		18	7.6	ug/Kg	☼	02/19/25 09:29	02/24/25 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*02/19/25 09:29*	*02/24/25 14:18*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*02/19/25 09:29*	*02/24/25 14:18*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.53	0.13	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluoropentanoic acid (PFPeA)	ND		0.27	0.066	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorohexanoic acid (PFHxA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluoroheptanoic acid (PFHpA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorooctanoic acid (PFOA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorononanoic acid (PFNA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorodecanoic acid (PFDA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluoroundecanoic acid (PFUnA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorododecanoic acid (PFDoA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorooctanesulfonic acid (PFOS)	**0.037**	**J**	0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorononanesulfonic acid (PFNS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.53	0.13	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.53	0.13	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.53	0.13	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1

Client Sample ID: MW-2 0.5-3.5 Ft
Lab Sample ID: 480-227331-4
Date Collected: 02/12/25 11:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 93.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.3	0.33	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.3	0.33	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.53	0.13	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.53	0.13	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.27	0.066	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.27	0.066	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.53	0.13	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.53	0.13	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.27	0.066	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.66	0.17	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.3	0.83	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.3	0.83	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.13	0.033	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.27	0.066	ug/Kg	☼	02/17/25 08:26	02/18/25 20:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C5 PFPeA	*86.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C5 PFHxA	*98.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C4 PFHpA	*97.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C8 PFOA	*88.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C9 PFNA	*100*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C6 PFDA	*95.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C7 PFUnA	*95.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C2 PFTeDA	*78.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C3 PFBS	*84.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C3 PFHxS	*83.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C8 PFOS	*84.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C8 PFOSA	*81.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
d3-NMeFOSAA	*82.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
d5-NEtFOSAA	*106*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
M2-4:2 FTS	*100*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
M2-6:2 FTS	*105*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
M2-8:2 FTS	*106*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
13C3 HFPO-DA	*98.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
d7-N-MeFOSE-M	*64.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
d9-N-EtFOSE-M	*62.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
d5-NEtPFOSA	*61.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*
D3-NMeFOSA	*69.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:34*	*1*

Client Sample ID: MW-2 0.5-3.5 Ft
Lab Sample ID: 480-227331-4
Date Collected: 02/12/25 11:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 93.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoDA	85.5		20 - 150	02/17/25 08:26	02/18/25 20:34	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5620**		10.6	9.2	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Antimony	ND		15.9	0.56	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Arsenic	ND		2.1	0.94	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Barium	**31.6**		0.53	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Beryllium	**0.20**	**J**	0.21	0.043	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Cadmium	**0.14**	**J**	0.21	0.074	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Calcium	**28000**		53.1	28.7	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Chromium	**6.6**		0.53	0.38	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Cobalt	**2.2**		0.53	0.11	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Copper	**5.9**		1.1	0.61	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Iron	**8400**		10.6	9.0	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Lead	**15.8**		1.1	0.49	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Magnesium	**10700**		21.3	9.0	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Manganese	**138**		1.1	0.30	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Nickel	**5.0**	**J**	5.3	0.27	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Potassium	**963**		31.9	25.8	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Selenium	ND		4.3	0.85	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Silver	ND		0.64	0.21	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Sodium	**125**	**J**	149	65.2	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Thallium	ND		6.4	0.81	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Vanadium	**11.5**		0.53	0.14	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1
Zinc	**39.6**		2.1	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 18:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.021	0.0049	mg/Kg	☼	02/14/25 10:25	02/14/25 12:57	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: MW-2 5-8 Ft
Lab Sample ID: 480-227331-5
Date Collected: 02/12/25 11:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.2	0.31	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,1,2,2-Tetrachloroethane	ND		4.2	0.69	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.2	0.96	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,1,2-Trichloroethane	ND		4.2	0.55	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,1-Dichloroethane	ND		4.2	0.52	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,1-Dichloroethene	ND		4.2	0.52	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,2,4-Trichlorobenzene	ND		4.2	0.26	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,2,4-Trimethylbenzene	ND		4.2	0.81	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,2-Dibromo-3-Chloropropane	ND		4.2	2.1	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,2-Dichlorobenzene	ND		4.2	0.33	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,2-Dichloroethane	ND		4.2	0.21	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,2-Dichloropropane	ND		4.2	2.1	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,3,5-Trimethylbenzene	ND		4.2	0.27	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,3-Dichlorobenzene	ND		4.2	0.22	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,4-Dichlorobenzene	ND		4.2	0.59	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
2-Butanone (MEK)	ND		21	1.5	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
2-Hexanone	ND		21	2.1	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
4-Isopropyltoluene	ND		4.2	0.34	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
4-Methyl-2-pentanone (MIBK)	ND		21	1.4	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Acetone	**11**	**J**	21	3.6	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Benzene	**0.43**	**J**	4.2	0.21	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Bromoform	ND		4.2	2.1	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Bromomethane	ND		4.2	0.38	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Carbon disulfide	ND		4.2	2.1	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Carbon tetrachloride	ND		4.2	0.41	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Chlorobenzene	ND		4.2	0.56	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Dibromochloromethane	ND		4.2	0.54	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Chloroethane	ND		4.2	0.96	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Chloroform	**0.68**	**J B**	4.2	0.26	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Chloromethane	ND		4.2	0.26	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
cis-1,2-Dichloroethene	ND		4.2	0.54	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Cyclohexane	ND		4.2	0.59	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Bromodichloromethane	ND		4.2	0.57	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Dichlorodifluoromethane	ND		4.2	0.35	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Ethylbenzene	ND		4.2	0.29	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
1,2-Dibromoethane	ND		4.2	0.54	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Isopropylbenzene	ND		4.2	0.64	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Methyl acetate	ND		21	2.6	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Methyl tert-butyl ether	ND		4.2	0.41	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Methylcyclohexane	**0.94**	**J**	4.2	0.64	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Methylene Chloride	ND		4.2	1.9	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
m,p-Xylene	**0.86**	**J**	8.5	0.71	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Naphthalene	ND		4.2	0.57	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
n-Butylbenzene	ND		4.2	0.37	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
N-Propylbenzene	ND		4.2	0.34	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
o-Xylene	ND		4.2	0.55	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
sec-Butylbenzene	ND		4.2	0.37	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Tetrachloroethene	ND		4.2	0.57	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Toluene	**1.1**	**J**	4.2	0.32	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1

Client Sample ID: MW-2 5-8 Ft
Lab Sample ID: 480-227331-5
Date Collected: 02/12/25 11:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		4.2	0.44	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
trans-1,3-Dichloropropene	ND		4.2	1.9	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Trichloroethene	ND		4.2	0.93	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Trichlorofluoromethane	ND		4.2	0.40	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Vinyl chloride	ND		4.2	0.52	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Xylenes, Total	**0.86**	**J**	8.5	0.71	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
cis-1,3-Dichloropropene	ND		4.2	0.61	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
Styrene	ND		4.2	0.21	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1
tert-Butylbenzene	ND		4.2	0.44	ug/Kg	☼	02/13/25 13:23	02/13/25 21:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/13/25 13:23*	*02/13/25 21:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*02/13/25 13:23*	*02/13/25 21:29*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*02/13/25 13:23*	*02/13/25 21:29*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*02/13/25 13:23*	*02/13/25 21:29*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*	*02/13/25 13:23*	*02/13/25 21:29*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2,4-Dimethylphenol	ND		190	45	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2,4-Dinitrophenol	ND		1800	870	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
1,4-Dioxane	ND		110	61	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2-Chlorophenol	ND		370	34	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2-Methylphenol	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
3-Nitroaniline	ND		370	52	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
4-Chloro-3-methylphenol	ND		190	46	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
4-Chloroaniline	ND		190	46	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
4-Methylphenol	ND		370	22	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
4-Nitroaniline	ND		370	99	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Acenaphthene	ND		190	28	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Acenaphthylene	ND		190	24	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Acetophenone	ND		190	25	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1

Client Sample ID: MW-2 5-8 Ft
Lab Sample ID: 480-227331-5
Date Collected: 02/12/25 11:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		190	46	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Atrazine	ND		190	65	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Benzaldehyde	ND		190	150	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Benzo[k]fluoranthene	ND		190	24	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Bis(2-ethylhexyl) phthalate	ND		190	64	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Caprolactam	ND		190	56	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Carbazole	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Chrysene	ND		190	42	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Dibenzofuran	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Fluoranthene	ND		190	20	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Fluorene	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Hexachlorobenzene	ND		190	25	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Hexachlorocyclopentadiene	ND		190	25	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Hexachloroethane	ND		190	24	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Isophorone	ND		190	40	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Naphthalene	ND		190	24	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Nitrobenzene	ND		190	21	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Phenanthrene	ND		190	28	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Phenol	ND		190	29	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1
Pyrene	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 16:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2500*	*T J*	*ug/Kg*	☼	*1.90*	*N/A*	*02/20/25 06:53*	*02/21/25 16:04*	*1*
Unknown	*3200*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/20/25 06:53*	*02/21/25 16:04*	*1*
Unknown	*2900*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/20/25 06:53*	*02/21/25 16:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*26 - 143*	*02/20/25 06:53*	*02/21/25 16:04*	*1*
2-Fluorobiphenyl	*92*		*50 - 121*	*02/20/25 06:53*	*02/21/25 16:04*	*1*
2-Fluorophenol	*79*		*36 - 120*	*02/20/25 06:53*	*02/21/25 16:04*	*1*
Nitrobenzene-d5	*84*		*40 - 121*	*02/20/25 06:53*	*02/21/25 16:04*	*1*
p-Terphenyl-d14	*100*		*46 - 143*	*02/20/25 06:53*	*02/21/25 16:04*	*1*
Phenol-d5	*87*		*41 - 120*	*02/20/25 06:53*	*02/21/25 16:04*	*1*

Client Sample ID: MW-2 5-8 Ft
Lab Sample ID: 480-227331-5
Date Collected: 02/12/25 11:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
4,4'-DDE	ND		1.9	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
4,4'-DDT	ND		1.9	0.43	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Aldrin	ND		1.9	0.45	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
alpha-BHC	ND		1.9	0.33	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
cis-Chlordane	ND		1.9	0.92	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
beta-BHC	ND		1.9	0.33	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
delta-BHC	ND		1.9	0.34	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Dieldrin	ND		1.9	0.44	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Endosulfan I	ND		1.9	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Endosulfan II	ND		1.9	0.33	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Endosulfan sulfate	ND		1.9	0.35	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Endrin	ND		1.9	0.37	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Endrin aldehyde	ND		1.9	0.47	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Endrin ketone	ND		1.9	0.45	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
gamma-BHC (Lindane)	ND		1.9	0.34	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
trans-Chlordane	ND		1.9	0.59	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Heptachlor	ND		1.9	0.40	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Heptachlor epoxide	ND		1.9	0.48	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Methoxychlor	ND		1.9	0.38	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1
Toxaphene	ND		19	11	ug/Kg	☼	02/20/25 13:01	02/21/25 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*45 - 120*	*02/20/25 13:01*	*02/21/25 11:47*	*1*
DCB Decachlorobiphenyl	*103*		*45 - 120*	*02/20/25 13:01*	*02/21/25 11:47*	*1*
Tetrachloro-m-xylene	*86*		*30 - 124*	*02/20/25 13:01*	*02/21/25 11:47*	*1*
Tetrachloro-m-xylene	*81*		*30 - 124*	*02/20/25 13:01*	*02/21/25 11:47*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	02/17/25 07:09	02/18/25 15:42	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	02/17/25 07:09	02/18/25 15:42	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	02/17/25 07:09	02/18/25 15:42	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	02/17/25 07:09	02/18/25 15:42	1
PCB-1248	ND		0.26	0.050	mg/Kg	☼	02/17/25 07:09	02/18/25 15:42	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	02/17/25 07:09	02/18/25 15:42	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	02/17/25 07:09	02/18/25 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*60 - 154*	*02/17/25 07:09*	*02/18/25 15:42*	*1*
Tetrachloro-m-xylene	*97*		*60 - 154*	*02/17/25 07:09*	*02/18/25 15:42*	*1*
DCB Decachlorobiphenyl	*96*		*65 - 174*	*02/17/25 07:09*	*02/18/25 15:42*	*1*
DCB Decachlorobiphenyl	*103*		*65 - 174*	*02/17/25 07:09*	*02/18/25 15:42*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	5.9	ug/Kg	☼	02/19/25 09:29	02/24/25 14:37	1
Silvex (2,4,5-TP)	ND		19	6.7	ug/Kg	☼	02/19/25 09:29	02/24/25 14:37	1
2,4-D	ND		19	12	ug/Kg	☼	02/19/25 09:29	02/24/25 14:37	1
Dichlorprop	ND		19	9.2	ug/Kg	☼	02/19/25 09:29	02/24/25 14:37	1

Client Sample ID: MW-2 5-8 Ft
Lab Sample ID: 480-227331-5

Date Collected: 02/12/25 11:15
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		19	6.0	ug/Kg	☼	02/19/25 09:29	02/24/25 14:37	1
Picloram	ND		19	8.0	ug/Kg	☼	02/19/25 09:29	02/24/25 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*02/19/25 09:29*	*02/24/25 14:37*	*1*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*02/19/25 09:29*	*02/24/25 14:37*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluoropentanoic acid (PFPeA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorohexanoic acid (PFHxA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluoroheptanoic acid (PFHpA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorooctanoic acid (PFOA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorononanoic acid (PFNA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorodecanoic acid (PFDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorododecanoic acid (PFDoA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorooctanesulfonic acid (PFOS)	**0.044**	**J**	0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorononanesulfonic acid (PFNS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.4	0.35	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.4	0.35	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1

Client Sample ID: MW-2 5-8 Ft
Lab Sample ID: 480-227331-5
Date Collected: 02/12/25 11:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.55	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.69	0.17	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.5	0.87	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.5	0.87	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.28	0.069	ug/Kg	☼	02/17/25 08:26	02/18/25 20:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C5 PFPeA	*88.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C5 PFHxA	*96.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C4 PFHpA	*99.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C8 PFOA	*89.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C9 PFNA	*100*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C6 PFDA	*93.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C7 PFUnA	*94.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C2 PFTeDA	*77.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C3 PFBS	*91.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C3 PFHxS	*87.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C8 PFOS	*89.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C8 PFOSA	*84.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
d3-NMeFOSAA	*88.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
d5-NEtFOSAA	*100*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
M2-4:2 FTS	*160*	**5+*	*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
M2-6:2 FTS	*118*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
M2-8:2 FTS	*121*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C3 HFPO-DA	*96.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
d7-N-MeFOSE-M	*65.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
d9-N-EtFOSE-M	*61.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
d5-NEtPFOSA	*66.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
D3-NMeFOSA	*74.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*
13C2-PFDoDA	*89.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 20:51*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5020**		11.7	10.1	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Antimony	ND		17.6	0.62	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Arsenic	**1.1**	**J**	2.3	1.0	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Barium	**15.4**		0.59	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Beryllium	**0.22**	**J**	0.23	0.047	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: MW-2 5-8 Ft
Lab Sample ID: 480-227331-5
Date Collected: 02/12/25 11:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.11	J	0.23	0.082	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Calcium	99800		293	158	mg/Kg	☼	02/14/25 12:34	02/18/25 15:50	5
Chromium	6.7		0.59	0.42	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Cobalt	2.5		0.59	0.12	mg/Kg	☼	02/14/25 12:34	02/18/25 15:23	1
Copper	9.9		1.2	0.67	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Iron	6410		11.7	9.9	mg/Kg	☼	02/14/25 12:34	02/18/25 15:23	1
Lead	6.4		1.2	0.54	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Magnesium	49600		117	49.7	mg/Kg	☼	02/14/25 12:34	02/18/25 15:50	5
Manganese	226		1.2	0.33	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Nickel	6.5		5.9	0.29	mg/Kg	☼	02/14/25 12:34	02/18/25 15:23	1
Potassium	1880		35.2	28.4	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Selenium	ND		4.7	0.94	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Silver	ND		0.70	0.23	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Sodium	200		164	71.9	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Thallium	ND		7.0	0.89	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Vanadium	9.9		0.59	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 18:51	1
Zinc	31.9		2.3	1.2	mg/Kg	☼	02/14/25 12:34	02/18/25 15:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.022	0.0051	mg/Kg	☼	02/14/25 10:25	02/14/25 12:59	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: MW-2 12-15 Ft
Lab Sample ID: 480-227331-6
Date Collected: 02/12/25 11:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 86.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.8	0.35	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,1,2,2-Tetrachloroethane	ND		4.8	0.78	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	1.1	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,1,2-Trichloroethane	ND		4.8	0.62	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,1-Dichloroethane	ND		4.8	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,1-Dichloroethene	ND		4.8	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,2,4-Trichlorobenzene	ND		4.8	0.29	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,2,4-Trimethylbenzene	ND		4.8	0.92	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.4	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,2-Dichlorobenzene	ND		4.8	0.37	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,2-Dichloroethane	ND		4.8	0.24	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,2-Dichloropropane	ND		4.8	2.4	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,3,5-Trimethylbenzene	ND		4.8	0.31	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,3-Dichlorobenzene	ND		4.8	0.25	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,4-Dichlorobenzene	ND		4.8	0.67	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
2-Butanone (MEK)	**4.0**	**J**	24	1.7	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
4-Isopropyltoluene	ND		4.8	0.38	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Acetone	**14**	**J**	24	4.0	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Benzene	ND		4.8	0.23	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Bromoform	ND		4.8	2.4	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Bromomethane	ND		4.8	0.43	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Carbon disulfide	ND		4.8	2.4	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Carbon tetrachloride	ND		4.8	0.46	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Chlorobenzene	ND		4.8	0.63	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Dibromochloromethane	ND		4.8	0.61	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Chloroethane	ND		4.8	1.1	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Chloroform	**0.83**	**J B**	4.8	0.30	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Chloromethane	ND		4.8	0.29	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
cis-1,2-Dichloroethene	ND		4.8	0.61	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Cyclohexane	ND		4.8	0.67	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Bromodichloromethane	ND		4.8	0.64	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Dichlorodifluoromethane	ND		4.8	0.39	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Ethylbenzene	ND		4.8	0.33	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
1,2-Dibromoethane	ND		4.8	0.61	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Isopropylbenzene	ND		4.8	0.72	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Methyl tert-butyl ether	ND		4.8	0.47	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Methylcyclohexane	ND		4.8	0.73	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Methylene Chloride	ND		4.8	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
m,p-Xylene	ND		9.6	0.80	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Naphthalene	ND		4.8	0.64	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
n-Butylbenzene	ND		4.8	0.42	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
N-Propylbenzene	ND		4.8	0.38	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
o-Xylene	ND		4.8	0.62	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
sec-Butylbenzene	ND		4.8	0.42	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Tetrachloroethene	ND		4.8	0.64	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Toluene	**0.71**	**J**	4.8	0.36	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1

Client Sample ID: MW-2 12-15 Ft
Lab Sample ID: 480-227331-6
Date Collected: 02/12/25 11:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 86.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		4.8	0.49	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
trans-1,3-Dichloropropene	ND		4.8	2.1	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Trichloroethene	ND		4.8	1.1	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Trichlorofluoromethane	ND		4.8	0.45	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Vinyl chloride	ND		4.8	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Xylenes, Total	ND		9.6	0.80	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
cis-1,3-Dichloropropene	ND		4.8	0.69	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
Styrene	ND		4.8	0.24	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1
tert-Butylbenzene	ND		4.8	0.50	ug/Kg	☼	02/13/25 13:23	02/13/25 21:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/13/25 13:23*	*02/13/25 21:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*02/13/25 13:23*	*02/13/25 21:56*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*	*02/13/25 13:23*	*02/13/25 21:56*	*1*
Toluene-d8 (Surr)	*97*		*71 - 125*	*02/13/25 13:23*	*02/13/25 21:56*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*02/13/25 13:23*	*02/13/25 21:56*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
1,4-Dioxane	ND		110	63	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2-Chlorophenol	ND		380	36	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2-Methylphenol	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
4-Chloroaniline	ND		200	48	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
4-Methylphenol	ND		380	23	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Acenaphthene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Acenaphthylene	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Acetophenone	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1

Client Sample ID: MW-2 12-15 Ft
Lab Sample ID: 480-227331-6
Date Collected: 02/12/25 11:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 86.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		200	48	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Atrazine	ND		200	68	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Bis(2-chloroethoxy)methane	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Caprolactam	ND		200	59	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Carbazole	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Chrysene	ND		200	44	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Dibenz(a,h)anthracene	ND		200	34	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Dibenzofuran	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Fluoranthene	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Fluorene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Hexachlorobenzene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Hexachlorocyclopentadiene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Hexachloroethane	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Isophorone	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Naphthalene	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Nitrobenzene	ND		200	22	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Phenanthrene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Phenol	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1
Pyrene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 16:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2300*	*T J*	*ug/Kg*	☼	*1.88*	*N/A*	*02/20/25 06:53*	*02/21/25 16:57*	*1*
Unknown	*3600*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/20/25 06:53*	*02/21/25 16:57*	*1*
Unknown	*2900*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/20/25 06:53*	*02/21/25 16:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*26 - 143*	*02/20/25 06:53*	*02/21/25 16:57*	*1*
2-Fluorobiphenyl	*85*		*50 - 121*	*02/20/25 06:53*	*02/21/25 16:57*	*1*
2-Fluorophenol	*78*		*36 - 120*	*02/20/25 06:53*	*02/21/25 16:57*	*1*
Nitrobenzene-d5	*78*		*40 - 121*	*02/20/25 06:53*	*02/21/25 16:57*	*1*
p-Terphenyl-d14	*90*		*46 - 143*	*02/20/25 06:53*	*02/21/25 16:57*	*1*
Phenol-d5	*87*		*41 - 120*	*02/20/25 06:53*	*02/21/25 16:57*	*1*

Client Sample ID: MW-2 12-15 Ft
Lab Sample ID: 480-227331-6

Date Collected: 02/12/25 11:30
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 86.8

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
4,4'-DDT	ND		1.9	0.44	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
alpha-BHC	ND		1.9	0.34	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
cis-Chlordane	ND		1.9	0.94	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
delta-BHC	ND		1.9	0.35	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Endosulfan I	ND		1.9	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Endosulfan sulfate	ND		1.9	0.35	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Endrin	ND		1.9	0.38	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Endrin aldehyde	ND		1.9	0.48	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
trans-Chlordane	ND		1.9	0.60	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Heptachlor	ND		1.9	0.41	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1
Toxaphene	ND		19	11	ug/Kg	☼	02/20/25 13:01	02/21/25 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*45 - 120*	*02/20/25 13:01*	*02/21/25 12:07*	*1*
DCB Decachlorobiphenyl	*104*		*45 - 120*	*02/20/25 13:01*	*02/21/25 12:07*	*1*
Tetrachloro-m-xylene	*87*		*30 - 124*	*02/20/25 13:01*	*02/21/25 12:07*	*1*
Tetrachloro-m-xylene	*87*		*30 - 124*	*02/20/25 13:01*	*02/21/25 12:07*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 16:00	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 16:00	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 16:00	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 16:00	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 16:00	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	02/17/25 07:09	02/18/25 16:00	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	02/17/25 07:09	02/18/25 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*60 - 154*	*02/17/25 07:09*	*02/18/25 16:00*	*1*
Tetrachloro-m-xylene	*99*		*60 - 154*	*02/17/25 07:09*	*02/18/25 16:00*	*1*
DCB Decachlorobiphenyl	*100*		*65 - 174*	*02/17/25 07:09*	*02/18/25 16:00*	*1*
DCB Decachlorobiphenyl	*106*		*65 - 174*	*02/17/25 07:09*	*02/18/25 16:00*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.1	ug/Kg	☼	02/19/25 09:29	02/24/25 14:56	1
Silvex (2,4,5-TP)	ND		19	6.9	ug/Kg	☼	02/19/25 09:29	02/24/25 14:56	1
2,4-D	ND		19	12	ug/Kg	☼	02/19/25 09:29	02/24/25 14:56	1
Dichlorprop	ND		19	9.5	ug/Kg	☼	02/19/25 09:29	02/24/25 14:56	1

Client Sample ID: MW-2 12-15 Ft
Lab Sample ID: 480-227331-6

Date Collected: 02/12/25 11:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 86.8

Method: SW846 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		19	6.2	ug/Kg	☼	02/19/25 09:29	02/24/25 14:56	1
Picloram	ND		19	8.2	ug/Kg	☼	02/19/25 09:29	02/24/25 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*65*		*28 - 129*	*02/19/25 09:29*	*02/24/25 14:56*	*1*
2,4-Dichlorophenylacetic acid	*64*		*28 - 129*	*02/19/25 09:29*	*02/24/25 14:56*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.57	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluoropentanoic acid (PFPeA)	ND		0.29	0.072	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorohexanoic acid (PFHxA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluoroheptanoic acid (PFHpA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorooctanoic acid (PFOA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorononanoic acid (PFNA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorodecanoic acid (PFDA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorododecanoic acid (PFDoA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorononanesulfonic acid (PFNS)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.57	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.57	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.57	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.4	0.36	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.4	0.36	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.57	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.57	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1

Client Sample ID: MW-2 12-15 Ft
Lab Sample ID: 480-227331-6

Date Collected: 02/12/25 11:30
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 86.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.29	0.072	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.29	0.072	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.57	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.57	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.29	0.072	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.72	0.18	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.6	0.90	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.6	0.90	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.14	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.29	0.072	ug/Kg	☼	02/17/25 08:26	02/18/25 21:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*102*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C5 PFPeA	*90.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C5 PFHxA	*97.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C4 PFHpA	*100*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C8 PFOA	*88.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C9 PFNA	*99.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C6 PFDA	*91.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C7 PFUnA	*89.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C2 PFTeDA	*80.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C3 PFBS	*91.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C3 PFHxS	*89.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C8 PFOS	*88.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C8 PFOSA	*81.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
d3-NMeFOSAA	*80.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
d5-NEtFOSAA	*105*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
M2-4:2 FTS	*110*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
M2-6:2 FTS	*111*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
M2-8:2 FTS	*115*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C3 HFPO-DA	*105*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
d7-N-MeFOSE-M	*63.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
d9-N-EtFOSE-M	*62.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
d5-NEtPFOSA	*58.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
D3-NMeFOSA	*67.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*
13C2-PFDoDA	*85.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:07*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3790**		11.2	9.7	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Antimony	ND		16.8	0.59	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Arsenic	**2.9**		2.2	0.99	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Barium	**14.9**		0.56	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Beryllium	**0.19**	**J**	0.22	0.045	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: MW-2 12-15 Ft
Lab Sample ID: 480-227331-6
Date Collected: 02/12/25 11:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 86.8

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.12	J	0.22	0.078	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Calcium	88200		280	151	mg/Kg	☼	02/14/25 12:34	02/18/25 15:52	5
Chromium	4.9		0.56	0.40	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Cobalt	4.3		0.56	0.11	mg/Kg	☼	02/14/25 12:34	02/18/25 15:25	1
Copper	9.7		1.1	0.64	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Iron	6250		11.2	9.5	mg/Kg	☼	02/14/25 12:34	02/18/25 15:25	1
Lead	5.3		1.1	0.52	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Magnesium	40400		22.4	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Manganese	234		1.1	0.31	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Nickel	7.4		5.6	0.28	mg/Kg	☼	02/14/25 12:34	02/18/25 15:25	1
Potassium	1490		33.6	27.2	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Selenium	ND		4.5	0.90	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Silver	ND		0.67	0.22	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Sodium	290		157	68.7	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Thallium	ND		6.7	0.85	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Vanadium	8.7		0.56	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 18:53	1
Zinc	42.5		2.2	1.1	mg/Kg	☼	02/14/25 12:34	02/18/25 15:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.022	0.0051	mg/Kg	☼	02/14/25 10:25	02/14/25 13:03	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: Blind duplicate-1
Lab Sample ID: 480-227331-7

Date Collected: 02/12/25 09:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.80	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,1,2-Trichloroethane	ND		5.0	0.64	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,1-Dichloroethane	ND		5.0	0.60	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,2,4-Trimethylbenzene	ND		5.0	0.95	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,3-Dichlorobenzene	ND		5.0	0.25	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,4-Dichlorobenzene	ND		5.0	0.69	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
2-Butanone (MEK)	**7.6**	**J**	25	1.8	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Acetone	**34**		25	4.2	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Benzene	ND		5.0	0.24	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Bromoform	ND		5.0	2.5	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Bromomethane	ND		5.0	0.45	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Carbon disulfide	ND		5.0	2.5	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Chlorobenzene	ND		5.0	0.65	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Dibromochloromethane	ND		5.0	0.63	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Chloroethane	ND		5.0	1.1	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Chloroform	**0.75**	**J B**	5.0	0.31	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Chloromethane	ND		5.0	0.30	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
cis-1,2-Dichloroethene	ND		5.0	0.63	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Cyclohexane	ND		5.0	0.69	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Bromodichloromethane	ND		5.0	0.66	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Ethylbenzene	ND		5.0	0.34	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Methyl acetate	ND		25	3.0	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Methylcyclohexane	ND		5.0	0.75	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Methylene Chloride	ND		5.0	2.3	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
m,p-Xylene	ND		9.9	0.83	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Naphthalene	**1.9**	**J**	5.0	0.66	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
n-Butylbenzene	ND		5.0	0.43	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
o-Xylene	ND		5.0	0.65	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
sec-Butylbenzene	ND		5.0	0.43	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Tetrachloroethene	ND		5.0	0.66	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Toluene	ND		5.0	0.37	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1

Client Sample ID: Blind duplicate-1
Lab Sample ID: 480-227331-7

Date Collected: 02/12/25 09:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.0	0.51	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Trichloroethene	ND		5.0	1.1	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Vinyl chloride	ND		5.0	0.60	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Xylenes, Total	ND		9.9	0.83	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
cis-1,3-Dichloropropene	ND		5.0	0.71	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
Styrene	ND		5.0	0.25	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1
tert-Butylbenzene	ND		5.0	0.51	ug/Kg	☼	02/13/25 13:23	02/13/25 22:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/13/25 13:23*	*02/13/25 22:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*02/13/25 13:23*	*02/13/25 22:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*	*02/13/25 13:23*	*02/13/25 22:23*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*02/13/25 13:23*	*02/13/25 22:23*	*1*
Dibromofluoromethane (Surr)	*115*		*60 - 140*	*02/13/25 13:23*	*02/13/25 22:23*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**36**	**J**	190	28	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2,4-Dinitrophenol	ND		1800	870	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
1,4-Dioxane	ND		110	61	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2-Chlorophenol	ND		370	35	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2-Methylnaphthalene	**130**	**J**	190	38	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2-Methylphenol	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
3-Nitroaniline	ND		370	52	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
4-Methylphenol	ND		370	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
4-Nitroaniline	ND		370	99	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Acenaphthene	**360**		190	28	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Acenaphthylene	**200**		190	25	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Acetophenone	ND		190	26	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1

Client Sample ID: Blind duplicate-1
Lab Sample ID: 480-227331-7

Date Collected: 02/12/25 09:15
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**970**		190	47	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Atrazine	ND		190	66	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Benzaldehyde	ND		190	150	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Benzo[a]anthracene	**2600**		190	19	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Benzo[a]pyrene	**2500**		190	28	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Benzo[b]fluoranthene	**3200**	**E**	190	30	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Benzo[g,h,i]perylene	**1600**		190	20	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Benzo[k]fluoranthene	**1200**		190	25	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Caprolactam	ND		190	57	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Carbazole	**470**		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Chrysene	**2700**		190	42	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Dibenz(a,h)anthracene	**500**		190	33	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Dibenzofuran	**290**		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Fluoranthene	**5400**	**E**	190	20	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Fluorene	**400**		190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Hexachloroethane	ND		190	25	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Indeno[1,2,3-cd]pyrene	**1400**		190	23	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Isophorone	ND		190	40	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Naphthalene	**170**	**J**	190	25	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Nitrobenzene	ND		190	21	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Phenanthrene	**4200**	**E**	190	28	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Phenol	ND		190	29	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1
Pyrene	**4700**	**E**	190	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2600*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/20/25 06:53*	*02/21/25 17:25*	*1*
Unknown	*1000*	*T J*	*ug/Kg*	☼	*2.72*	*N/A*	*02/20/25 06:53*	*02/21/25 17:25*	*1*
Unknown	*890*	*T J*	*ug/Kg*	☼	*3.23*	*N/A*	*02/20/25 06:53*	*02/21/25 17:25*	*1*
Unknown	*2200*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/20/25 06:53*	*02/21/25 17:25*	*1*
Phenanthrene, 2-methyl-	*590*	*T J N*	*ug/Kg*	☼	*11.45*	*2531-84-2*	*02/20/25 06:53*	*02/21/25 17:25*	*1*
Anthracene, 2-methyl-	*810*	*T J N*	*ug/Kg*	☼	*11.48*	*613-12-7*	*02/20/25 06:53*	*02/21/25 17:25*	*1*
Phenanthrene, 9-methyl-	*340*	*T J N*	*ug/Kg*	☼	*11.52*	*883-20-5*	*02/20/25 06:53*	*02/21/25 17:25*	*1*
4H-Cyclopenta[def]phenanthrene	*930*	*T J N*	*ug/Kg*	☼	*11.55*	*203-64-5*	*02/20/25 06:53*	*02/21/25 17:25*	*1*
1H-Cyclopropa[l]phenanthrene,1a,9b -dihydro-	*470*	*T J N*	*ug/Kg*	☼	*11.57*	*949-41-7*	*02/20/25 06:53*	*02/21/25 17:25*	*1*
2-Phenylnaphthalene	*370*	*T J N*	*ug/Kg*	☼	*11.73*	*35465-71-5*	*02/20/25 06:53*	*02/21/25 17:25*	*1*

Client Sample ID: Blind duplicate-1
Lab Sample ID: 480-227331-7
Date Collected: 02/12/25 09:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Phenanthrene, 2,5-dimethyl-	430	T J N	ug/Kg	☼	11.97	3674-66-6	02/20/25 06:53	02/21/25 17:25	1
Cyclopenta(def)phenanthrenone	520	T J N	ug/Kg	☼	12.04	5737-13-3	02/20/25 06:53	02/21/25 17:25	1
Unknown	340	T J	ug/Kg	☼	14.09	N/A	02/20/25 06:53	02/21/25 17:25	1
Benzo[e]pyrene	430	T J N	ug/Kg	☼	14.30	192-97-2	02/20/25 06:53	02/21/25 17:25	1
Perylene	1500	T J N	ug/Kg	☼	14.44	198-55-0	02/20/25 06:53	02/21/25 17:25	1
Benzo[j]fluoranthene	680	T J N	ug/Kg	☼	14.54	205-82-3	02/20/25 06:53	02/21/25 17:25	1
Unknown	430	T J	ug/Kg	☼	15.25	N/A	02/20/25 06:53	02/21/25 17:25	1
Benzo[b]chrysene	360	T J N	ug/Kg	☼	15.56	214-17-5	02/20/25 06:53	02/21/25 17:25	1
Dibenzo[def,mno]chrysene	600	T J N	ug/Kg	☼	15.87	191-26-4	02/20/25 06:53	02/21/25 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		26 - 143	02/20/25 06:53	02/21/25 17:25	1
2-Fluorobiphenyl	80		50 - 121	02/20/25 06:53	02/21/25 17:25	1
2-Fluorophenol	67		36 - 120	02/20/25 06:53	02/21/25 17:25	1
Nitrobenzene-d5	71		40 - 121	02/20/25 06:53	02/21/25 17:25	1
p-Terphenyl-d14	90		46 - 143	02/20/25 06:53	02/21/25 17:25	1
Phenol-d5	78		41 - 120	02/20/25 06:53	02/21/25 17:25	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		950	140	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
bis (2-chloroisopropyl) ether	ND		950	190	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2,4,5-Trichlorophenol	ND		950	260	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2,4,6-Trichlorophenol	ND		950	190	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2,4-Dichlorophenol	ND		950	100	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2,4-Dimethylphenol	ND		950	230	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2,4-Dinitrophenol	ND		9200	4400	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2,4-Dinitrotoluene	ND		950	190	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2,6-Dinitrotoluene	ND		950	110	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2-Chloronaphthalene	ND		950	160	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
1,4-Dioxane	ND		560	310	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2-Chlorophenol	ND		1800	170	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2-Methylnaphthalene	ND		950	190	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2-Methylphenol	ND		950	110	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2-Nitroaniline	ND		1800	140	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
2-Nitrophenol	ND		950	270	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
3,3'-Dichlorobenzidine	ND		1800	1100	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
3-Nitroaniline	ND		1800	260	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
4,6-Dinitro-2-methylphenol	ND		1800	950	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
4-Bromophenyl phenyl ether	ND		950	130	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
4-Chloro-3-methylphenol	ND		950	230	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
4-Chloroaniline	ND		950	230	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
4-Chlorophenyl phenyl ether	ND		950	120	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
4-Methylphenol	ND		1800	110	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
4-Nitroaniline	ND		1800	500	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
4-Nitrophenol	ND		1800	660	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Acenaphthene	**320**	**J**	950	140	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Acenaphthylene	**210**	**J**	950	120	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Acetophenone	ND		950	130	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5

Client Sample ID: Blind duplicate-1
Lab Sample ID: 480-227331-7

Date Collected: 02/12/25 09:15
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**880**	**J**	950	230	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Atrazine	ND		950	330	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Benzaldehyde	ND		950	750	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Benzo[a]anthracene	**2500**		950	95	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Benzo[a]pyrene	**2300**		950	140	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Benzo[b]fluoranthene	**2700**		950	150	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Benzo[g,h,i]perylene	**1400**		950	100	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Benzo[k]fluoranthene	**1300**		950	120	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Bis(2-chloroethoxy)methane	ND		950	200	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Bis(2-chloroethyl)ether	ND		950	120	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Bis(2-ethylhexyl) phthalate	ND		950	320	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Butyl benzyl phthalate	ND		950	160	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Caprolactam	ND		950	280	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Carbazole	**410**	**J**	950	110	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Chrysene	**2400**		950	210	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Di-n-butyl phthalate	ND		950	160	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Di-n-octyl phthalate	ND		950	110	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Dibenz(a,h)anthracene	**470**	**J**	950	170	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Dibenzofuran	**280**	**J**	950	110	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Diethyl phthalate	ND		950	120	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Dimethyl phthalate	ND		950	110	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Fluoranthene	**5300**		950	100	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Fluorene	**380**	**J**	950	110	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Hexachlorobenzene	ND		950	130	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Hexachlorobutadiene	ND		950	140	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Hexachlorocyclopentadiene	ND		950	130	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Hexachloroethane	ND		950	120	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Indeno[1,2,3-cd]pyrene	**1200**		950	120	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Isophorone	ND		950	200	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
N-Nitrosodi-n-propylamine	ND		950	160	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
N-Nitrosodiphenylamine	ND		950	770	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Naphthalene	ND		950	120	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Nitrobenzene	ND		950	110	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Pentachlorophenol	ND		1800	950	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Phenanthrene	**4100**		950	140	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Phenol	ND		950	140	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5
Pyrene	**4300**		950	110	ug/Kg	☼	02/20/25 06:53	02/24/25 14:07	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1500*	*T J*	*ug/Kg*	☼	*3.16*	*N/A*	*02/20/25 06:53*	*02/24/25 14:07*	*5*
Anthracene, 1-methyl-	*970*	*T J N*	*ug/Kg*	☼	*11.19*	*610-48-0*	*02/20/25 06:53*	*02/24/25 14:07*	*5*
4H-Cyclopenta[def]phenanthrene	*1600*	*T J N*	*ug/Kg*	☼	*11.27*	*203-64-5*	*02/20/25 06:53*	*02/24/25 14:07*	*5*
9,10-Anthracenedione	*970*	*T J N*	*ug/Kg*	☼	*11.46*	*84-65-1*	*02/20/25 06:53*	*02/24/25 14:07*	*5*
Unknown	*920*	*T J*	*ug/Kg*	☼	*11.75*	*N/A*	*02/20/25 06:53*	*02/24/25 14:07*	*5*
11H-Benzo[b]fluorene	*860*	*T J N*	*ug/Kg*	☼	*12.32*	*243-17-4*	*02/20/25 06:53*	*02/24/25 14:07*	*5*
Pyrene, 1-methyl-	*750*	*T J N*	*ug/Kg*	☼	*12.41*	*2381-21-7*	*02/20/25 06:53*	*02/24/25 14:07*	*5*
Unknown	*980*	*T J*	*ug/Kg*	☼	*13.39*	*N/A*	*02/20/25 06:53*	*02/24/25 14:07*	*5*
Perylene	*1400*	*T J N*	*ug/Kg*	☼	*14.12*	*198-55-0*	*02/20/25 06:53*	*02/24/25 14:07*	*5*
Unknown	*830*	*T J*	*ug/Kg*	☼	*14.94*	*N/A*	*02/20/25 06:53*	*02/24/25 14:07*	*5*
Unknown	*920*	*T J*	*ug/Kg*	☼	*16.36*	*N/A*	*02/20/25 06:53*	*02/24/25 14:07*	*5*

Client Sample ID: Blind duplicate-1
Lab Sample ID: 480-227331-7

Date Collected: 02/12/25 09:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	760	T J	ug/Kg	☼	16.94	N/A	02/20/25 06:53	02/24/25 14:07	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		26 - 143	02/20/25 06:53	02/24/25 14:07	5
2-Fluorobiphenyl	73		50 - 121	02/20/25 06:53	02/24/25 14:07	5
2-Fluorophenol	64		36 - 120	02/20/25 06:53	02/24/25 14:07	5
Nitrobenzene-d5	63		40 - 121	02/20/25 06:53	02/24/25 14:07	5
p-Terphenyl-d14	79		46 - 143	02/20/25 06:53	02/24/25 14:07	5
Phenol-d5	68		41 - 120	02/20/25 06:53	02/24/25 14:07	5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		18	3.5	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
4,4'-DDE	ND		18	3.8	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
4,4'-DDT	**4.6**	**J**	18	4.3	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Aldrin	ND		18	4.5	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
alpha-BHC	ND		18	3.3	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
cis-Chlordane	ND		18	9.1	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
beta-BHC	ND		18	3.3	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
delta-BHC	ND		18	3.4	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Dieldrin	ND		18	4.4	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Endosulfan I	ND		18	3.5	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Endosulfan II	ND		18	3.3	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Endosulfan sulfate	ND		18	3.4	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Endrin	ND		18	3.6	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Endrin aldehyde	ND		18	4.7	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Endrin ketone	ND		18	4.5	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
gamma-BHC (Lindane)	ND		18	3.4	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
trans-Chlordane	ND		18	5.8	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Heptachlor	ND		18	4.0	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Heptachlor epoxide	ND		18	4.7	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Methoxychlor	ND		18	3.7	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10
Toxaphene	ND		180	110	ug/Kg	☼	02/20/25 13:01	02/21/25 12:26	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	157	S1+	45 - 120	02/20/25 13:01	02/21/25 12:26	10
DCB Decachlorobiphenyl	464	S1+	45 - 120	02/20/25 13:01	02/21/25 12:26	10
Tetrachloro-m-xylene	68		30 - 124	02/20/25 13:01	02/21/25 12:26	10
Tetrachloro-m-xylene	75		30 - 124	02/20/25 13:01	02/21/25 12:26	10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.040	mg/Kg	☼	02/17/25 07:09	02/18/25 16:18	1
PCB-1221	ND		0.20	0.040	mg/Kg	☼	02/17/25 07:09	02/18/25 16:18	1
PCB-1232	ND		0.20	0.040	mg/Kg	☼	02/17/25 07:09	02/18/25 16:18	1
PCB-1242	ND		0.20	0.040	mg/Kg	☼	02/17/25 07:09	02/18/25 16:18	1
PCB-1248	ND		0.20	0.040	mg/Kg	☼	02/17/25 07:09	02/18/25 16:18	1
PCB-1254	ND		0.20	0.095	mg/Kg	☼	02/17/25 07:09	02/18/25 16:18	1
PCB-1260	ND		0.20	0.095	mg/Kg	☼	02/17/25 07:09	02/18/25 16:18	1

Client Sample ID: Blind duplicate-1
Date Collected: 02/12/25 09:15
Date Received: 02/12/25 16:06

Lab Sample ID: 480-227331-7
Matrix: Solid
Percent Solids: 89.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*60 - 154*	*02/17/25 07:09*	*02/18/25 16:18*	*1*
Tetrachloro-m-xylene	*95*		*60 - 154*	*02/17/25 07:09*	*02/18/25 16:18*	*1*
DCB Decachlorobiphenyl	*90*		*65 - 174*	*02/17/25 07:09*	*02/18/25 16:18*	*1*
DCB Decachlorobiphenyl	*96*		*65 - 174*	*02/17/25 07:09*	*02/18/25 16:18*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.9	ug/Kg	☼	02/19/25 09:29	02/24/25 15:33	1
Silvex (2,4,5-TP)	ND		18	6.6	ug/Kg	☼	02/19/25 09:29	02/24/25 15:33	1
2,4-D	ND		18	12	ug/Kg	☼	02/19/25 09:29	02/24/25 15:33	1
Dichlorprop	ND		18	9.2	ug/Kg	☼	02/19/25 09:29	02/24/25 15:33	1
Pentachlorophenol	ND		18	6.0	ug/Kg	☼	02/19/25 09:29	02/24/25 15:33	1
Picloram	ND		18	7.9	ug/Kg	☼	02/19/25 09:29	02/24/25 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*	*02/19/25 09:29*	*02/24/25 15:33*	*1*
2,4-Dichlorophenylacetic acid	*79*		*28 - 129*	*02/19/25 09:29*	*02/24/25 15:33*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.56	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluoropentanoic acid (PFPeA)	ND		0.28	0.070	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorohexanoic acid (PFHxA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluoroheptanoic acid (PFHpA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorooctanoic acid (PFOA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorononanoic acid (PFNA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorodecanoic acid (PFDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorododecanoic acid (PFDoA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorooctanesulfonic acid (PFOS)	**0.13**	**J**	0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorononanesulfonic acid (PFNS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.56	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.56	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.56	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1

Client Sample ID: Blind duplicate-1
Lab Sample ID: 480-227331-7
Date Collected: 02/12/25 09:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.4	0.35	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.4	0.35	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.56	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.56	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.28	0.070	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.28	0.070	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.56	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.56	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.28	0.070	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.70	0.17	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.5	0.87	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.5	0.87	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.14	0.035	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.28	0.070	ug/Kg	☼	02/17/25 08:26	02/18/25 21:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C5 PFPeA	*84.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C5 PFHxA	*89.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C4 PFHpA	*88.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C8 PFOA	*88.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C9 PFNA	*100*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C6 PFDA	*95.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C7 PFUnA	*98.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C2 PFTeDA	*83.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C3 PFBS	*82.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C3 PFHxS	*82.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C8 PFOS	*84.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C8 PFOSA	*83.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
d3-NMeFOSAA	*86.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
d5-NEtFOSAA	*99.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
M2-4:2 FTS	*112*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
M2-6:2 FTS	*111*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
M2-8:2 FTS	*114*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C3 HFPO-DA	*90.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
d7-N-MeFOSE-M	*73.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
d9-N-EtFOSE-M	*68.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*

Client Sample ID: Blind duplicate-1
Lab Sample ID: 480-227331-7

Date Collected: 02/12/25 09:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtPFOSA	*67.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
D3-NMeFOSA	*74.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*
13C2-PFDoDA	*91.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:24*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		11.3	9.7	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Antimony	ND		16.9	0.60	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Arsenic	**22.5**		2.3	0.99	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Barium	**139**		0.56	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Beryllium	**0.42**		0.23	0.045	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Cadmium	**0.46**		0.23	0.079	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Calcium	**45700**		56.3	30.4	mg/Kg	☼	02/14/25 12:34	02/18/25 15:27	1
Chromium	**13.3**		0.56	0.41	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Cobalt	**6.9**		0.56	0.11	mg/Kg	☼	02/14/25 12:34	02/18/25 15:27	1
Copper	**66.0**		1.1	0.64	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Iron	**39100**		11.3	9.5	mg/Kg	☼	02/14/25 12:34	02/18/25 15:27	1
Lead	**573**		1.1	0.52	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Magnesium	**12600**		22.5	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Manganese	**438**		1.1	0.32	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Nickel	**14.4**		5.6	0.28	mg/Kg	☼	02/14/25 12:34	02/18/25 15:27	1
Potassium	**2070**		33.8	27.3	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Selenium	ND		4.5	0.90	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Silver	**0.39**	**J**	0.68	0.23	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Sodium	**236**		158	69.0	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Thallium	ND		6.8	0.86	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Vanadium	**25.0**		0.56	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 18:55	1
Zinc	**277**		2.3	1.1	mg/Kg	☼	02/14/25 12:34	02/18/25 15:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.7**		0.022	0.0051	mg/Kg	☼	02/14/25 10:25	02/14/25 13:04	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-34 0-4 Ft
Lab Sample ID: 480-227331-8
Date Collected: 02/12/25 12:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.5	0.32	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.72	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,1,2-Trichloroethane	ND		4.5	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,1-Dichloroethane	ND		4.5	0.54	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,1-Dichloroethene	ND		4.5	0.55	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,2,4-Trichlorobenzene	ND		4.5	0.27	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,2,4-Trimethylbenzene	ND		4.5	0.86	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,2-Dibromo-3-Chloropropane	ND		4.5	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,2-Dichlorobenzene	ND		4.5	0.35	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,2-Dichloroethane	ND		4.5	0.22	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,2-Dichloropropane	ND		4.5	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,3,5-Trimethylbenzene	ND		4.5	0.29	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,3-Dichlorobenzene	ND		4.5	0.23	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,4-Dichlorobenzene	ND		4.5	0.62	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
4-Isopropyltoluene	ND		4.5	0.36	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.5	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Acetone	ND		22	3.8	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Benzene	ND		4.5	0.22	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Bromoform	ND		4.5	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Bromomethane	ND		4.5	0.40	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Carbon disulfide	ND		4.5	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Carbon tetrachloride	ND		4.5	0.43	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Chlorobenzene	ND		4.5	0.59	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Dibromochloromethane	ND		4.5	0.57	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Chloroethane	ND		4.5	1.0	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Chloroform	**0.84**	**J B**	4.5	0.28	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Chloromethane	ND		4.5	0.27	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
cis-1,2-Dichloroethene	ND		4.5	0.57	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Cyclohexane	ND		4.5	0.62	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Bromodichloromethane	ND		4.5	0.60	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Dichlorodifluoromethane	ND		4.5	0.37	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Ethylbenzene	ND		4.5	0.31	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
1,2-Dibromoethane	ND		4.5	0.57	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Isopropylbenzene	ND		4.5	0.67	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Methyl acetate	ND		22	2.7	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Methyl tert-butyl ether	ND		4.5	0.44	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Methylcyclohexane	ND		4.5	0.68	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Methylene Chloride	ND		4.5	2.1	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
m,p-Xylene	ND		8.9	0.75	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Naphthalene	ND		4.5	0.60	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
n-Butylbenzene	ND		4.5	0.39	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
N-Propylbenzene	ND		4.5	0.36	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
o-Xylene	ND		4.5	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
sec-Butylbenzene	ND		4.5	0.39	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Tetrachloroethene	ND		4.5	0.60	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Toluene	ND		4.5	0.34	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1

Client Sample ID: TP-34 0-4 Ft
Lab Sample ID: 480-227331-8
Date Collected: 02/12/25 12:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		4.5	0.46	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
trans-1,3-Dichloropropene	ND		4.5	2.0	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Trichloroethene	ND		4.5	0.98	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Trichlorofluoromethane	ND		4.5	0.42	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Vinyl chloride	ND		4.5	0.54	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Xylenes, Total	ND		8.9	0.75	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
cis-1,3-Dichloropropene	ND		4.5	0.64	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
Styrene	ND		4.5	0.22	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1
tert-Butylbenzene	ND		4.5	0.46	ug/Kg	☼	02/13/25 13:23	02/13/25 22:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/13/25 13:23*	*02/13/25 22:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*02/13/25 13:23*	*02/13/25 22:50*	*1*
4-Bromofluorobenzene (Surr)	*92*		*72 - 126*	*02/13/25 13:23*	*02/13/25 22:50*	*1*
Toluene-d8 (Surr)	*104*		*71 - 125*	*02/13/25 13:23*	*02/13/25 22:50*	*1*
Dibromofluoromethane (Surr)	*115*		*60 - 140*	*02/13/25 13:23*	*02/13/25 22:50*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2,4-Dichlorophenol	ND		200	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2-Chloronaphthalene	ND		200	34	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
1,4-Dioxane	ND		120	66	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2-Chlorophenol	ND		400	37	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2-Methylphenol	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
3-Nitroaniline	ND		400	56	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
4,6-Dinitro-2-methylphenol	ND		400	200	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
4-Methylphenol	ND		400	24	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Acenaphthene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Acenaphthylene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Acetophenone	ND		200	28	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1

Client Sample ID: TP-34 0-4 Ft
Lab Sample ID: 480-227331-8
Date Collected: 02/12/25 12:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		200	50	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Atrazine	ND		200	71	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Benzo[a]anthracene	**100**	**J**	200	20	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Benzo[a]pyrene	**110**	**J**	200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Benzo[b]fluoranthene	**140**	**J**	200	32	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Benzo[g,h,i]perylene	**77**	**J**	200	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Benzo[k]fluoranthene	**66**	**J**	200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Butyl benzyl phthalate	ND		200	34	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Caprolactam	ND		200	61	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Carbazole	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Chrysene	**120**	**J**	200	46	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Dibenzofuran	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Fluoranthene	**200**		200	22	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Fluorene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Hexachlorobenzene	ND		200	28	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Hexachlorocyclopentadiene	ND		200	28	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Hexachloroethane	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Indeno[1,2,3-cd]pyrene	**66**	**J**	200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Isophorone	ND		200	43	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
N-Nitrosodiphenylamine	ND		200	170	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Naphthalene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Nitrobenzene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Pentachlorophenol	ND		400	200	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Phenanthrene	**110**	**J**	200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Phenol	ND		200	31	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1
Pyrene	**170**	**J**	200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 17:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*4000*	*T J*	*ug/Kg*	☼	*1.91*	*N/A*	*02/20/25 06:53*	*02/21/25 17:51*	*1*
Unknown	*5900*	*T J*	*ug/Kg*	☼	*1.99*	*N/A*	*02/20/25 06:53*	*02/21/25 17:51*	*1*
Unknown	*520*	*T J*	*ug/Kg*	☼	*2.72*	*N/A*	*02/20/25 06:53*	*02/21/25 17:51*	*1*
Unknown	*390*	*T J*	*ug/Kg*	☼	*3.23*	*N/A*	*02/20/25 06:53*	*02/21/25 17:51*	*1*
Unknown	*2900*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/20/25 06:53*	*02/21/25 17:51*	*1*
18,19-Secolupan-3-ol, (3.beta.,17.xi.)-	*180*	*T J N*	*ug/Kg*	☼	*5.03*	*30211-96-2*	*02/20/25 06:53*	*02/21/25 17:51*	*1*
Nonadecane	*560*	*T J N*	*ug/Kg*	☼	*13.24*	*629-92-5*	*02/20/25 06:53*	*02/21/25 17:51*	*1*
17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,3,4,7,8,9,10,11,12,1	*860*	*T J N*	*ug/Kg*	☼	*15.08*	*1000210-38-4*	*02/20/25 06:53*	*02/21/25 17:51*	*1*

Client Sample ID: TP-34 0-4 Ft
Lab Sample ID: 480-227331-8

Date Collected: 02/12/25 12:30
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 83.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	200	T J	ug/Kg	☼	15.22	N/A	02/20/25 06:53	02/21/25 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	96		26 - 143	02/20/25 06:53	02/21/25 17:51	1
2-Fluorobiphenyl	91		50 - 121	02/20/25 06:53	02/21/25 17:51	1
2-Fluorophenol	81		36 - 120	02/20/25 06:53	02/21/25 17:51	1
Nitrobenzene-d5	85		40 - 121	02/20/25 06:53	02/21/25 17:51	1
p-Terphenyl-d14	96		46 - 143	02/20/25 06:53	02/21/25 17:51	1
Phenol-d5	90		41 - 120	02/20/25 06:53	02/21/25 17:51	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		40	7.7	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
4,4'-DDE	ND		40	8.4	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
4,4'-DDT	ND		40	9.3	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Aldrin	ND		40	9.8	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
alpha-BHC	ND		40	7.2	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
cis-Chlordane	ND		40	20	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
beta-BHC	ND		40	7.2	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
delta-BHC	ND		40	7.4	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Dieldrin	ND		40	9.6	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Endosulfan I	ND		40	7.6	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Endosulfan II	ND		40	7.2	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Endosulfan sulfate	ND		40	7.4	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Endrin	ND		40	7.9	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Endrin aldehyde	ND		40	10	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Endrin ketone	ND		40	9.8	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
gamma-BHC (Lindane)	ND		40	7.3	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
trans-Chlordane	ND		40	13	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Heptachlor	ND		40	8.6	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Heptachlor epoxide	ND		40	10	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Methoxychlor	ND		40	8.1	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20
Toxaphene	ND		400	230	ug/Kg	☼	02/20/25 13:01	02/21/25 12:45	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	S1-	45 - 120	02/20/25 13:01	02/21/25 12:45	20
DCB Decachlorobiphenyl	0	S1-	45 - 120	02/20/25 13:01	02/21/25 12:45	20
Tetrachloro-m-xylene	0	S1-	30 - 124	02/20/25 13:01	02/21/25 12:45	20
Tetrachloro-m-xylene	0	S1-	30 - 124	02/20/25 13:01	02/21/25 12:45	20

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 16:37	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 16:37	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 16:37	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 16:37	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	02/17/25 07:09	02/18/25 16:37	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	02/17/25 07:09	02/18/25 16:37	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	02/17/25 07:09	02/18/25 16:37	1

Client Sample ID: TP-34 0-4 Ft
Lab Sample ID: 480-227331-8

Date Collected: 02/12/25 12:30
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 83.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*60 - 154*	*02/17/25 07:09*	*02/18/25 16:37*	*1*
Tetrachloro-m-xylene	*98*		*60 - 154*	*02/17/25 07:09*	*02/18/25 16:37*	*1*
DCB Decachlorobiphenyl	*96*		*65 - 174*	*02/17/25 07:09*	*02/18/25 16:37*	*1*
DCB Decachlorobiphenyl	*102*		*65 - 174*	*02/17/25 07:09*	*02/18/25 16:37*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.3	ug/Kg	☼	02/19/25 09:29	02/24/25 15:51	1
Silvex (2,4,5-TP)	ND		20	7.1	ug/Kg	☼	02/19/25 09:29	02/24/25 15:51	1
2,4-D	ND		20	12	ug/Kg	☼	02/19/25 09:29	02/24/25 15:51	1
Dichlorprop	ND		20	9.9	ug/Kg	☼	02/19/25 09:29	02/24/25 15:51	1
Pentachlorophenol	ND		20	6.5	ug/Kg	☼	02/19/25 09:29	02/24/25 15:51	1
Picloram	ND		20	8.5	ug/Kg	☼	02/19/25 09:29	02/24/25 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*65*		*28 - 129*	*02/19/25 09:29*	*02/24/25 15:51*	*1*
2,4-Dichlorophenylacetic acid	*67*		*28 - 129*	*02/19/25 09:29*	*02/24/25 15:51*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.59	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluoropentanoic acid (PFPeA)	ND		0.30	0.074	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorohexanoic acid (PFHxA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluoroheptanoic acid (PFHpA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorooctanoic acid (PFOA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorononanoic acid (PFNA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorodecanoic acid (PFDA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluoroundecanoic acid (PFUnA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorododecanoic acid (PFDoA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorooctanesulfonic acid (PFOS)	**0.051**	**J**	0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorononanesulfonic acid (PFNS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.59	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.59	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.59	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1

Client Sample ID: TP-34 0-4 Ft
Lab Sample ID: 480-227331-8

Date Collected: 02/12/25 12:30
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 83.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.5	0.37	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.5	0.37	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.59	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.59	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.30	0.074	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.30	0.074	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.59	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.59	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.30	0.074	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.74	0.19	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.7	0.93	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.7	0.93	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.15	0.037	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.30	0.074	ug/Kg	☼	02/17/25 08:26	02/18/25 21:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C5 PFPeA	*79.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C5 PFHxA	*89.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C4 PFHpA	*90.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C8 PFOA	*83.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C9 PFNA	*94.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C6 PFDA	*94.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C7 PFUnA	*97.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C2 PFTeDA	*80.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C3 PFBS	*70.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C3 PFHxS	*70.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C8 PFOS	*74.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C8 PFOSA	*80.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
d3-NMeFOSAA	*82.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
d5-NEtFOSAA	*94.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
M2-4:2 FTS	*90.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
M2-6:2 FTS	*85.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
M2-8:2 FTS	*92.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C3 HFPO-DA	*92.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
d7-N-MeFOSE-M	*79.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
d9-N-EtFOSE-M	*75.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*

Client Sample ID: TP-34 0-4 Ft
Lab Sample ID: 480-227331-8

Date Collected: 02/12/25 12:30
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 83.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtPFOSA	*71.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
D3-NMeFOSA	*77.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*
13C2-PFDoDA	*92.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 21:41*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19400**		12.4	10.7	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Antimony	ND		18.6	0.66	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Arsenic	**4.4**		2.5	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Barium	**124**		0.62	0.17	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Beryllium	**0.84**		0.25	0.050	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Cadmium	**0.29**		0.25	0.087	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Calcium	**28700**		62.0	33.5	mg/Kg	☼	02/14/25 12:34	02/18/25 15:29	1
Chromium	**22.9**		0.62	0.45	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Cobalt	**10.3**		0.62	0.12	mg/Kg	☼	02/14/25 12:34	02/18/25 15:29	1
Copper	**36.7**		1.2	0.71	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Iron	**22900**		12.4	10.5	mg/Kg	☼	02/14/25 12:34	02/18/25 15:29	1
Lead	**82.3**		1.2	0.57	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Magnesium	**11700**		24.8	10.5	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Manganese	**382**		1.2	0.35	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Nickel	**23.3**		6.2	0.31	mg/Kg	☼	02/14/25 12:34	02/18/25 15:29	1
Potassium	**4100**		37.2	30.1	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Selenium	ND		5.0	0.99	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Silver	**0.44**	**J**	0.74	0.25	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Sodium	**169**	**J**	174	76.1	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Thallium	ND		7.4	0.94	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Vanadium	**34.7**		0.62	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 18:57	1
Zinc	**84.1**		2.5	1.3	mg/Kg	☼	02/14/25 12:34	02/18/25 15:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.025	0.0058	mg/Kg	☼	02/14/25 10:25	02/14/25 13:05	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-34 5-6 Ft
Lab Sample ID: 480-227331-9
Date Collected: 02/12/25 12:40
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.4	0.32	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.71	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4	0.99	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,1,2-Trichloroethane	ND		4.4	0.57	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,1-Dichloroethane	ND		4.4	0.53	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,1-Dichloroethene	ND		4.4	0.53	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,2,4-Trichlorobenzene	ND		4.4	0.26	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,2,4-Trimethylbenzene	ND		4.4	0.84	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,2-Dibromo-3-Chloropropane	ND		4.4	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,2-Dichlorobenzene	ND		4.4	0.34	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,2-Dichloroethane	ND		4.4	0.22	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,2-Dichloropropane	ND		4.4	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,3,5-Trimethylbenzene	ND		4.4	0.28	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,3-Dichlorobenzene	ND		4.4	0.22	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,4-Dichlorobenzene	ND		4.4	0.61	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
4-Isopropyltoluene	ND		4.4	0.35	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Acetone	**7.6**	**J**	22	3.7	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Benzene	ND		4.4	0.21	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Bromoform	ND		4.4	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Bromomethane	ND		4.4	0.39	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Carbon disulfide	ND		4.4	2.2	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Carbon tetrachloride	ND		4.4	0.42	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Chlorobenzene	ND		4.4	0.57	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Dibromochloromethane	ND		4.4	0.56	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Chloroethane	ND		4.4	0.98	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Chloroform	ND		4.4	0.27	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Chloromethane	ND		4.4	0.26	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
cis-1,2-Dichloroethene	ND		4.4	0.56	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Cyclohexane	ND		4.4	0.61	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Bromodichloromethane	ND		4.4	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Dichlorodifluoromethane	ND		4.4	0.36	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Ethylbenzene	ND		4.4	0.30	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
1,2-Dibromoethane	ND		4.4	0.56	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Isopropylbenzene	ND		4.4	0.66	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Methyl acetate	ND		22	2.6	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Methyl tert-butyl ether	ND		4.4	0.43	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Methylcyclohexane	ND		4.4	0.66	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Methylene Chloride	ND		4.4	2.0	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
m,p-Xylene	ND		8.7	0.73	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Naphthalene	ND		4.4	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
n-Butylbenzene	ND		4.4	0.38	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
N-Propylbenzene	ND		4.4	0.35	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
o-Xylene	ND		4.4	0.57	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
sec-Butylbenzene	ND		4.4	0.38	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Tetrachloroethene	ND		4.4	0.58	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Toluene	ND		4.4	0.33	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1

Client Sample ID: TP-34 5-6 Ft
Lab Sample ID: 480-227331-9
Date Collected: 02/12/25 12:40
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		4.4	0.45	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
trans-1,3-Dichloropropene	ND		4.4	1.9	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Trichloroethene	ND		4.4	0.96	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Trichlorofluoromethane	ND		4.4	0.41	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Vinyl chloride	ND		4.4	0.53	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Xylenes, Total	ND		8.7	0.73	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
cis-1,3-Dichloropropene	ND		4.4	0.63	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
Styrene	ND		4.4	0.22	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1
tert-Butylbenzene	ND		4.4	0.45	ug/Kg	☼	02/13/25 13:23	02/13/25 23:17	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/13/25 13:23*	*02/13/25 23:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*02/13/25 13:23*	*02/13/25 23:17*	*1*
4-Bromofluorobenzene (Surr)	*91*		*72 - 126*	*02/13/25 13:23*	*02/13/25 23:17*	*1*
Toluene-d8 (Surr)	*97*		*71 - 125*	*02/13/25 13:23*	*02/13/25 23:17*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*	*02/13/25 13:23*	*02/13/25 23:17*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		990	150	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
bis (2-chloroisopropyl) ether	ND		990	200	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2,4,5-Trichlorophenol	ND		990	270	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2,4,6-Trichlorophenol	ND		990	200	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2,4-Dichlorophenol	ND		990	100	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2,4-Dimethylphenol	ND		990	240	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2,4-Dinitrophenol	ND		9700	4600	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2,4-Dinitrotoluene	ND		990	200	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2,6-Dinitrotoluene	ND		990	120	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2-Chloronaphthalene	ND		990	160	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
1,4-Dioxane	ND		580	320	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2-Chlorophenol	ND		1900	180	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2-Methylnaphthalene	ND		990	200	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2-Methylphenol	ND		990	120	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2-Nitroaniline	ND		1900	150	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
2-Nitrophenol	ND		990	280	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
3,3'-Dichlorobenzidine	ND		1900	1200	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
3-Nitroaniline	ND		1900	270	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
4,6-Dinitro-2-methylphenol	ND		1900	990	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
4-Bromophenyl phenyl ether	ND		990	140	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
4-Chloro-3-methylphenol	ND		990	240	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
4-Chloroaniline	ND		990	240	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
4-Chlorophenyl phenyl ether	ND		990	120	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
4-Methylphenol	ND		1900	120	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
4-Nitroaniline	ND		1900	520	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
4-Nitrophenol	ND		1900	690	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Acenaphthene	ND		990	150	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Acenaphthylene	ND		990	130	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Acetophenone	ND		990	130	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5

Client Sample ID: TP-34 5-6 Ft
Lab Sample ID: 480-227331-9

Date Collected: 02/12/25 12:40
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 84.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		990	240	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Atrazine	ND		990	340	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Benzaldehyde	ND		990	790	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Benzo[a]anthracene	**120**	**J**	990	99	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Benzo[a]pyrene	ND		990	150	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Benzo[b]fluoranthene	ND		990	160	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Benzo[g,h,i]perylene	ND		990	100	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Benzo[k]fluoranthene	ND		990	130	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Bis(2-chloroethoxy)methane	ND		990	210	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Bis(2-chloroethyl)ether	ND		990	130	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Bis(2-ethylhexyl) phthalate	ND		990	340	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Butyl benzyl phthalate	ND		990	160	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Caprolactam	ND		990	300	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Carbazole	ND		990	120	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Chrysene	ND		990	220	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Di-n-butyl phthalate	ND		990	170	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Di-n-octyl phthalate	ND		990	120	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Dibenz(a,h)anthracene	ND		990	170	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Dibenzofuran	ND		990	120	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Diethyl phthalate	ND		990	130	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Dimethyl phthalate	ND		990	120	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Fluoranthene	**220**	**J**	990	100	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Fluorene	ND		990	120	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Hexachlorobenzene	ND		990	130	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Hexachlorobutadiene	ND		990	150	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Hexachlorocyclopentadiene	ND		990	130	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Hexachloroethane	ND		990	130	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Indeno[1,2,3-cd]pyrene	ND		990	120	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Isophorone	ND		990	210	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
N-Nitrosodi-n-propylamine	ND		990	170	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
N-Nitrosodiphenylamine	ND		990	800	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Naphthalene	ND		990	130	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Nitrobenzene	ND		990	110	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Pentachlorophenol	ND		1900	990	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Phenanthrene	**150**	**J**	990	150	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Phenol	ND		990	150	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5
Pyrene	**170**	**J**	990	120	ug/Kg	☼	02/20/25 06:53	02/21/25 18:34	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2600*	*T J*	*ug/Kg*	☼	*3.48*	*N/A*	*02/20/25 06:53*	*02/21/25 18:34*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*26 - 143*	*02/20/25 06:53*	*02/21/25 18:34*	*5*
2-Fluorobiphenyl	*79*		*50 - 121*	*02/20/25 06:53*	*02/21/25 18:34*	*5*
2-Fluorophenol	*74*		*36 - 120*	*02/20/25 06:53*	*02/21/25 18:34*	*5*
Nitrobenzene-d5	*73*		*40 - 121*	*02/20/25 06:53*	*02/21/25 18:34*	*5*
p-Terphenyl-d14	*81*		*46 - 143*	*02/20/25 06:53*	*02/21/25 18:34*	*5*
Phenol-d5	*79*		*41 - 120*	*02/20/25 06:53*	*02/21/25 18:34*	*5*

Client Sample ID: TP-34 5-6 Ft
Date Collected: 02/12/25 12:40
Date Received: 02/12/25 16:06

Lab Sample ID: 480-227331-9
Matrix: Solid
Percent Solids: 84.5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	3.8	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
4,4'-DDE	ND		20	4.1	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
4,4'-DDT	ND		20	4.6	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Aldrin	ND		20	4.8	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
alpha-BHC	ND		20	3.5	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
cis-Chlordane	ND		20	9.7	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
beta-BHC	ND		20	3.5	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
delta-BHC	ND		20	3.6	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Dieldrin	ND		20	4.7	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Endosulfan I	ND		20	3.7	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Endosulfan II	ND		20	3.5	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Endosulfan sulfate	ND		20	3.6	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Endrin	ND		20	3.9	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Endrin aldehyde	ND		20	5.0	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Endrin ketone	ND		20	4.8	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
gamma-BHC (Lindane)	ND		20	3.6	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
trans-Chlordane	ND		20	6.2	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Heptachlor	ND		20	4.2	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Heptachlor epoxide	ND		20	5.0	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Methoxychlor	ND		20	4.0	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10
Toxaphene	ND		200	110	ug/Kg	☼	02/20/25 13:01	02/21/25 13:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*164*	*S1+*	*45 - 120*	*02/20/25 13:01*	*02/21/25 13:05*	*10*
DCB Decachlorobiphenyl	*138*	*S1+*	*45 - 120*	*02/20/25 13:01*	*02/21/25 13:05*	*10*
Tetrachloro-m-xylene	*64*		*30 - 124*	*02/20/25 13:01*	*02/21/25 13:05*	*10*
Tetrachloro-m-xylene	*88*		*30 - 124*	*02/20/25 13:01*	*02/21/25 13:05*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.056	mg/Kg	☼	02/17/25 07:09	02/18/25 16:55	1
PCB-1221	ND		0.29	0.056	mg/Kg	☼	02/17/25 07:09	02/18/25 16:55	1
PCB-1232	ND		0.29	0.056	mg/Kg	☼	02/17/25 07:09	02/18/25 16:55	1
PCB-1242	ND		0.29	0.056	mg/Kg	☼	02/17/25 07:09	02/18/25 16:55	1
PCB-1248	ND		0.29	0.056	mg/Kg	☼	02/17/25 07:09	02/18/25 16:55	1
PCB-1254	ND		0.29	0.14	mg/Kg	☼	02/17/25 07:09	02/18/25 16:55	1
PCB-1260	ND		0.29	0.14	mg/Kg	☼	02/17/25 07:09	02/18/25 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*60 - 154*	*02/17/25 07:09*	*02/18/25 16:55*	*1*
Tetrachloro-m-xylene	*105*		*60 - 154*	*02/17/25 07:09*	*02/18/25 16:55*	*1*
DCB Decachlorobiphenyl	*104*		*65 - 174*	*02/17/25 07:09*	*02/18/25 16:55*	*1*
DCB Decachlorobiphenyl	*111*		*65 - 174*	*02/17/25 07:09*	*02/18/25 16:55*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.3	ug/Kg	☼	02/19/25 09:29	02/24/25 16:10	1
Silvex (2,4,5-TP)	ND		20	7.1	ug/Kg	☼	02/19/25 09:29	02/24/25 16:10	1
2,4-D	ND		20	12	ug/Kg	☼	02/19/25 09:29	02/24/25 16:10	1
Dichlorprop	ND		20	9.8	ug/Kg	☼	02/19/25 09:29	02/24/25 16:10	1

Client Sample ID: TP-34 5-6 Ft
Lab Sample ID: 480-227331-9
Date Collected: 02/12/25 12:40
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.5

Method: SW846 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		20	6.4	ug/Kg	☼	02/19/25 09:29	02/24/25 16:10	1
Picloram	ND		20	8.4	ug/Kg	☼	02/19/25 09:29	02/24/25 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*02/19/25 09:29*	*02/24/25 16:10*	*1*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*02/19/25 09:29*	*02/24/25 16:10*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.58	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluoropentanoic acid (PFPeA)	ND		0.29	0.073	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorohexanoic acid (PFHxA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluoroheptanoic acid (PFHpA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorooctanoic acid (PFOA)	**0.038**	**J**	0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorononanoic acid (PFNA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorodecanoic acid (PFDA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluoroundecanoic acid (PFUnA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorododecanoic acid (PFDoA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorooctanesulfonic acid (PFOS)	**0.056**	**J**	0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorononanesulfonic acid (PFNS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.58	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.58	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.58	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.5	0.36	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.5	0.36	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.58	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.58	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1

Client Sample ID: TP-34 5-6 Ft
Lab Sample ID: 480-227331-9
Date Collected: 02/12/25 12:40
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.5

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.29	0.073	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.29	0.073	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.58	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.58	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.29	0.073	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.73	0.18	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.6	0.91	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.6	0.91	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.29	0.073	ug/Kg	☼	02/17/25 08:26	02/18/25 22:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C5 PFPeA	*86.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C5 PFHxA	*93.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C4 PFHpA	*95.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C8 PFOA	*89.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C9 PFNA	*101*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C6 PFDA	*94.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C7 PFUnA	*94.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C2 PFTeDA	*74.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C3 PFBS	*85.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C3 PFHxS	*85.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C8 PFOS	*84.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C8 PFOSA	*83.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
d3-NMeFOSAA	*81.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
d5-NEtFOSAA	*97.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
M2-4:2 FTS	*110*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
M2-6:2 FTS	*112*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
M2-8:2 FTS	*107*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C3 HFPO-DA	*95.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
d7-N-MeFOSE-M	*56.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
d9-N-EtFOSE-M	*47.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
d5-NEtPFOSA	*66.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
D3-NMeFOSA	*72.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*
13C2-PFDoDA	*85.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:31*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5100**		12.6	10.8	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Antimony	**1.0**	**J**	18.9	0.67	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Arsenic	**7.7**		2.5	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Barium	**102**		0.63	0.18	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Beryllium	**0.25**		0.25	0.050	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-34 5-6 Ft
Lab Sample ID: 480-227331-9
Date Collected: 02/12/25 12:40
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.5

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.24	J	0.25	0.088	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Calcium	79900		62.8	33.9	mg/Kg	☼	02/14/25 12:34	02/18/25 15:37	1
Chromium	9.4		0.63	0.45	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Cobalt	4.3		0.63	0.13	mg/Kg	☼	02/14/25 12:34	02/18/25 15:37	1
Copper	54.4		1.3	0.72	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Iron	10800		12.6	10.7	mg/Kg	☼	02/14/25 12:34	02/18/25 15:37	1
Lead	2240		1.3	0.58	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Magnesium	19200		25.1	10.7	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Manganese	254		1.3	0.35	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Nickel	8.9		6.3	0.31	mg/Kg	☼	02/14/25 12:34	02/18/25 15:37	1
Potassium	1250		37.7	30.5	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Selenium	ND		5.0	1.0	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Silver	0.26	J	0.75	0.25	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Sodium	217		176	77.1	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Thallium	ND		7.5	0.96	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Vanadium	13.0		0.63	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 18:59	1
Zinc	120		2.5	1.3	mg/Kg	☼	02/14/25 12:34	02/18/25 15:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.2		0.12	0.028	mg/Kg	☼	02/14/25 10:25	02/14/25 15:23	5

Client Sample ID: TP-34 6-8 Ft
Lab Sample ID: 480-227331-10
Date Collected: 02/12/25 12:45
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
1,4-Dioxane	ND		120	64	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2-Chlorophenol	ND		380	36	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2-Methylphenol	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
3-Nitroaniline	ND		380	55	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
4-Methylphenol	ND		380	23	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Acenaphthene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Acenaphthylene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Acetophenone	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Anthracene	ND		200	49	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Atrazine	ND		200	68	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Caprolactam	ND		200	59	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Carbazole	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Chrysene	ND		200	44	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Dibenzofuran	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1

Client Sample ID: TP-34 6-8 Ft
Lab Sample ID: 480-227331-10
Date Collected: 02/12/25 12:45
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Fluoranthene	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Fluorene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Hexachloroethane	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Isophorone	ND		200	42	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Naphthalene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Nitrobenzene	ND		200	22	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Phenanthrene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Phenol	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1
Pyrene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 19:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2500*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/20/25 06:53*	*02/21/25 19:02*	*1*
Unknown	*2000*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/20/25 06:53*	*02/21/25 19:02*	*1*
Unknown	*380*	*T J*	*ug/Kg*	☼	*9.62*	*N/A*	*02/20/25 06:53*	*02/21/25 19:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*26 - 143*	*02/20/25 06:53*	*02/21/25 19:02*	*1*
2-Fluorobiphenyl	*70*		*50 - 121*	*02/20/25 06:53*	*02/21/25 19:02*	*1*
2-Fluorophenol	*59*		*36 - 120*	*02/20/25 06:53*	*02/21/25 19:02*	*1*
Nitrobenzene-d5	*64*		*40 - 121*	*02/20/25 06:53*	*02/21/25 19:02*	*1*
p-Terphenyl-d14	*83*		*46 - 143*	*02/20/25 06:53*	*02/21/25 19:02*	*1*
Phenol-d5	*66*		*41 - 120*	*02/20/25 06:53*	*02/21/25 19:02*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
alpha-BHC	ND		1.9	0.35	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
cis-Chlordane	ND		1.9	0.96	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
beta-BHC	ND		1.9	0.35	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
delta-BHC	ND		1.9	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
Endosulfan II	ND		1.9	0.35	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
Endrin	ND		1.9	0.38	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
trans-Chlordane	ND		1.9	0.61	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1

Client Sample ID: TP-34 6-8 Ft
Lab Sample ID: 480-227331-10

Date Collected: 02/12/25 12:45
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 85.3

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.42	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
Heptachlor epoxide	ND		1.9	0.50	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1
Toxaphene	ND		19	11	ug/Kg	☼	02/20/25 13:01	02/21/25 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*45 - 120*	*02/20/25 13:01*	*02/21/25 13:25*	*1*
DCB Decachlorobiphenyl	*101*		*45 - 120*	*02/20/25 13:01*	*02/21/25 13:25*	*1*
Tetrachloro-m-xylene	*77*		*30 - 124*	*02/20/25 13:01*	*02/21/25 13:25*	*1*
Tetrachloro-m-xylene	*76*		*30 - 124*	*02/20/25 13:01*	*02/21/25 13:25*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		11.7	10.1	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Antimony	ND		17.5	0.62	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Arsenic	**1.2**	**J**	2.3	1.0	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Barium	**57.8**		0.58	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Beryllium	**0.38**		0.23	0.047	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Cadmium	**0.10**	**J**	0.23	0.082	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Calcium	**1040**		58.3	31.5	mg/Kg	☼	02/14/25 12:34	02/18/25 15:38	1
Chromium	**12.4**		0.58	0.42	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Cobalt	**4.4**		0.58	0.12	mg/Kg	☼	02/14/25 12:34	02/18/25 15:38	1
Copper	**3.8**		1.2	0.67	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Iron	**11500**		11.7	9.9	mg/Kg	☼	02/14/25 12:34	02/18/25 15:38	1
Lead	**6.7**		1.2	0.54	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Magnesium	**2090**		23.3	9.9	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Manganese	**63.9**		1.2	0.33	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Nickel	**11.7**		5.8	0.29	mg/Kg	☼	02/14/25 12:34	02/18/25 15:38	1
Potassium	**1420**		35.0	28.3	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Selenium	ND		4.7	0.93	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Silver	**0.26**	**J**	0.70	0.23	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Sodium	**97.7**	**J**	163	71.5	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Thallium	ND		7.0	0.89	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Vanadium	**20.3**		0.58	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 19:00	1
Zinc	**45.5**		2.3	1.2	mg/Kg	☼	02/14/25 12:34	02/18/25 15:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0078**	**J**	0.022	0.0052	mg/Kg	☼	02/14/25 10:25	02/14/25 13:09	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-34 13-15 Ft
Lab Sample ID: 480-227331-11
Date Collected: 02/12/25 13:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 82.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2,4-Dichlorophenol	ND		200	22	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2-Chloronaphthalene	ND		200	34	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
1,4-Dioxane	ND		120	66	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2-Chlorophenol	ND		400	37	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2-Methylphenol	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
2-Nitrophenol	ND		200	58	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
4,6-Dinitro-2-methylphenol	ND		400	200	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
4-Chloro-3-methylphenol	ND		200	51	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
4-Chloroaniline	ND		200	51	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
4-Methylphenol	ND		400	24	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Acenaphthene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Acenaphthylene	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Acetophenone	ND		200	28	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Anthracene	ND		200	51	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Atrazine	ND		200	71	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Benzo[b]fluoranthene	ND		200	33	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Benzo[g,h,i]perylene	ND		200	22	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Benzo[k]fluoranthene	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Bis(2-chloroethyl)ether	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Bis(2-ethylhexyl) phthalate	ND		200	70	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Butyl benzyl phthalate	ND		200	34	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Caprolactam	ND		200	61	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Carbazole	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Chrysene	ND		200	46	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Dibenzofuran	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Diethyl phthalate	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1

Client Sample ID: TP-34 13-15 Ft
Lab Sample ID: 480-227331-11
Date Collected: 02/12/25 13:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 82.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Fluoranthene	ND		200	22	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Fluorene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Hexachlorobenzene	ND		200	28	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Hexachlorocyclopentadiene	ND		200	28	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Hexachloroethane	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Isophorone	ND		200	43	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
N-Nitrosodiphenylamine	ND		200	170	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Naphthalene	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Nitrobenzene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Pentachlorophenol	ND		400	200	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Phenanthrene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Phenol	ND		200	31	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1
Pyrene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/21/25 19:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3800*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/20/25 06:53*	*02/21/25 19:28*	*1*
Unknown	*2400*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/20/25 06:53*	*02/21/25 19:28*	*1*
Unknown	*260*	*T J*	*ug/Kg*	☼	*9.62*	*N/A*	*02/20/25 06:53*	*02/21/25 19:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*26 - 143*	*02/20/25 06:53*	*02/21/25 19:28*	*1*
2-Fluorobiphenyl	*69*		*50 - 121*	*02/20/25 06:53*	*02/21/25 19:28*	*1*
2-Fluorophenol	*63*		*36 - 120*	*02/20/25 06:53*	*02/21/25 19:28*	*1*
Nitrobenzene-d5	*64*		*40 - 121*	*02/20/25 06:53*	*02/21/25 19:28*	*1*
p-Terphenyl-d14	*75*		*46 - 143*	*02/20/25 06:53*	*02/21/25 19:28*	*1*
Phenol-d5	*70*		*41 - 120*	*02/20/25 06:53*	*02/21/25 19:28*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.38	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
4,4'-DDE	ND		2.0	0.42	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
cis-Chlordane	ND		2.0	0.99	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
Dieldrin	ND		2.0	0.47	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
Endrin	ND		2.0	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
trans-Chlordane	ND		2.0	0.63	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1

Client Sample ID: TP-34 13-15 Ft
Lab Sample ID: 480-227331-11

Date Collected: 02/12/25 13:00
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 82.9

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.0	0.43	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1
Toxaphene	ND		20	12	ug/Kg	☼	02/20/25 13:01	02/21/25 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*45 - 120*	*02/20/25 13:01*	*02/21/25 13:44*	*1*
DCB Decachlorobiphenyl	*108*		*45 - 120*	*02/20/25 13:01*	*02/21/25 13:44*	*1*
Tetrachloro-m-xylene	*88*		*30 - 124*	*02/20/25 13:01*	*02/21/25 13:44*	*1*
Tetrachloro-m-xylene	*88*		*30 - 124*	*02/20/25 13:01*	*02/21/25 13:44*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7550**		11.7	10.1	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Antimony	ND		17.6	0.62	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Arsenic	ND		2.3	1.0	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Barium	**28.3**		0.59	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Beryllium	**0.32**		0.23	0.047	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Cadmium	**0.28**		0.23	0.082	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Calcium	**1360**		58.7	31.7	mg/Kg	☼	02/14/25 12:34	02/18/25 15:40	1
Chromium	**9.0**		0.59	0.42	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Cobalt	**3.1**		0.59	0.12	mg/Kg	☼	02/14/25 12:34	02/18/25 15:40	1
Copper	**9.0**		1.2	0.67	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Iron	**4940**		11.7	10	mg/Kg	☼	02/14/25 12:34	02/18/25 15:40	1
Lead	**10.2**		1.2	0.54	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Magnesium	**1710**		23.5	10	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Manganese	**43.9**		1.2	0.33	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Nickel	**8.8**		5.9	0.29	mg/Kg	☼	02/14/25 12:34	02/18/25 15:40	1
Potassium	**1500**		35.2	28.5	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Selenium	ND		4.7	0.94	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Silver	ND		0.70	0.23	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Sodium	**114**	**J**	164	72.0	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Thallium	ND		7.0	0.89	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Vanadium	**14.0**		0.59	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 19:02	1
Zinc	**74.7**		2.3	1.2	mg/Kg	☼	02/14/25 12:34	02/18/25 15:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.015**	**J**	0.023	0.0053	mg/Kg	☼	02/14/25 10:25	02/14/25 13:11	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-31 2-4 Ft
Lab Sample ID: 480-227331-12
Date Collected: 02/12/25 15:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 91.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.6	0.33	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.74	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,2,4-Trimethylbenzene	ND		4.6	0.88	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,3,5-Trimethylbenzene	ND		4.6	0.29	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,4-Dichlorobenzene	ND		4.6	0.64	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
4-Isopropyltoluene	ND		4.6	0.37	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Acetone	ND		23	3.9	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Benzene	ND		4.6	0.22	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Carbon tetrachloride	ND		4.6	0.44	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Chlorobenzene	ND		4.6	0.60	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Chloroform	**1.1**	**J B**	4.6	0.28	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Cyclohexane	ND		4.6	0.64	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Bromodichloromethane	ND		4.6	0.61	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Isopropylbenzene	ND		4.6	0.69	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
m,p-Xylene	ND		9.2	0.77	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Naphthalene	ND		4.6	0.61	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
n-Butylbenzene	ND		4.6	0.40	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
N-Propylbenzene	ND		4.6	0.37	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
o-Xylene	ND		4.6	0.60	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
sec-Butylbenzene	ND		4.6	0.40	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Tetrachloroethene	ND		4.6	0.61	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Toluene	ND		4.6	0.35	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1

Client Sample ID: TP-31 2-4 Ft
Lab Sample ID: 480-227331-12
Date Collected: 02/12/25 15:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 91.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		4.6	0.47	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Trichloroethene	ND		4.6	1.0	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Trichlorofluoromethane	ND		4.6	0.43	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Xylenes, Total	ND		9.2	0.77	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
Styrene	ND		4.6	0.23	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1
tert-Butylbenzene	ND		4.6	0.48	ug/Kg	☼	02/13/25 13:23	02/13/25 23:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/13/25 13:23*	*02/13/25 23:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*02/13/25 13:23*	*02/13/25 23:44*	*1*
4-Bromofluorobenzene (Surr)	*84*		*72 - 126*	*02/13/25 13:23*	*02/13/25 23:44*	*1*
Toluene-d8 (Surr)	*106*		*71 - 125*	*02/13/25 13:23*	*02/13/25 23:44*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*02/13/25 13:23*	*02/13/25 23:44*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		930	140	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
bis (2-chloroisopropyl) ether	ND		930	190	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2,4,5-Trichlorophenol	ND		930	250	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2,4,6-Trichlorophenol	ND		930	190	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2,4-Dichlorophenol	ND		930	99	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2,4-Dimethylphenol	ND		930	220	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2,4-Dinitrophenol	ND		9100	4300	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2,4-Dinitrotoluene	ND		930	190	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2,6-Dinitrotoluene	ND		930	110	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2-Chloronaphthalene	ND		930	150	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
1,4-Dioxane	ND		550	300	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2-Chlorophenol	ND		1800	170	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2-Methylnaphthalene	ND		930	190	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2-Methylphenol	ND		930	110	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2-Nitroaniline	ND		1800	140	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
2-Nitrophenol	ND		930	260	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
3,3'-Dichlorobenzidine	ND		1800	1100	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
3-Nitroaniline	ND		1800	260	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
4,6-Dinitro-2-methylphenol	ND		1800	930	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
4-Bromophenyl phenyl ether	ND		930	130	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
4-Chloro-3-methylphenol	ND		930	230	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
4-Chloroaniline	ND		930	230	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
4-Chlorophenyl phenyl ether	ND		930	120	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
4-Methylphenol	ND		1800	110	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
4-Nitroaniline	ND		1800	490	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
4-Nitrophenol	ND		1800	650	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Acenaphthene	ND		930	140	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Acenaphthylene	ND		930	120	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Acetophenone	ND		930	130	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5

Client Sample ID: TP-31 2-4 Ft
Lab Sample ID: 480-227331-12

Date Collected: 02/12/25 15:00
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 91.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		930	230	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Atrazine	ND		930	320	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Benzaldehyde	ND		930	740	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Benzo[a]anthracene	**400**	**J**	930	93	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Benzo[a]pyrene	**390**	**J**	930	140	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Benzo[b]fluoranthene	**480**	**J**	930	150	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Benzo[g,h,i]perylene	**260**	**J**	930	99	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Benzo[k]fluoranthene	**230**	**J**	930	120	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Bis(2-chloroethoxy)methane	ND		930	200	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Bis(2-chloroethyl)ether	ND		930	120	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Bis(2-ethylhexyl) phthalate	ND		930	320	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Butyl benzyl phthalate	ND		930	150	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Caprolactam	ND		930	280	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Carbazole	ND		930	110	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Chrysene	**400**	**J**	930	210	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Di-n-butyl phthalate	ND		930	160	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Di-n-octyl phthalate	ND		930	110	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Dibenz(a,h)anthracene	ND		930	160	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Dibenzofuran	ND		930	110	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Diethyl phthalate	ND		930	120	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Dimethyl phthalate	ND		930	110	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Fluoranthene	**900**	**J**	930	99	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Fluorene	ND		930	110	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Hexachlorobenzene	ND		930	130	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Hexachlorobutadiene	ND		930	140	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Hexachlorocyclopentadiene	ND		930	130	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Hexachloroethane	ND		930	120	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Indeno[1,2,3-cd]pyrene	**210**	**J**	930	120	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Isophorone	ND		930	200	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
N-Nitrosodi-n-propylamine	ND		930	160	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
N-Nitrosodiphenylamine	ND		930	760	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Naphthalene	ND		930	120	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Nitrobenzene	ND		930	100	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Pentachlorophenol	ND		1800	930	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Phenanthrene	**560**	**J**	930	140	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Phenol	ND		930	140	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5
Pyrene	**710**	**J**	930	110	ug/Kg	☼	02/20/25 06:53	02/21/25 19:54	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2600*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/20/25 06:53*	*02/21/25 19:54*	*5*
Unknown	*4200*	*T J*	*ug/Kg*	☼	*9.87*	*N/A*	*02/20/25 06:53*	*02/21/25 19:54*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*61*		*26 - 143*	*02/20/25 06:53*	*02/21/25 19:54*	*5*
2-Fluorobiphenyl	*78*		*50 - 121*	*02/20/25 06:53*	*02/21/25 19:54*	*5*
2-Fluorophenol	*69*		*36 - 120*	*02/20/25 06:53*	*02/21/25 19:54*	*5*
Nitrobenzene-d5	*71*		*40 - 121*	*02/20/25 06:53*	*02/21/25 19:54*	*5*
p-Terphenyl-d14	*79*		*46 - 143*	*02/20/25 06:53*	*02/21/25 19:54*	*5*
Phenol-d5	*75*		*41 - 120*	*02/20/25 06:53*	*02/21/25 19:54*	*5*

Client Sample ID: TP-31 2-4 Ft
Date Collected: 02/12/25 15:00
Date Received: 02/12/25 16:06

Lab Sample ID: 480-227331-12
Matrix: Solid
Percent Solids: 91.1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		18	3.5	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
4,4'-DDE	ND		18	3.8	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
4,4'-DDT	ND		18	4.2	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Aldrin	ND		18	4.5	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
alpha-BHC	ND		18	3.3	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
cis-Chlordane	ND		18	9.0	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
beta-BHC	ND		18	3.3	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
delta-BHC	ND		18	3.4	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Dieldrin	ND		18	4.4	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Endosulfan I	ND		18	3.5	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Endosulfan II	ND		18	3.3	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Endosulfan sulfate	ND		18	3.4	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Endrin	ND		18	3.6	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Endrin aldehyde	ND		18	4.6	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Endrin ketone	ND		18	4.5	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
gamma-BHC (Lindane)	ND		18	3.3	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
trans-Chlordane	ND		18	5.8	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Heptachlor	ND		18	3.9	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Heptachlor epoxide	ND		18	4.7	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Methoxychlor	ND		18	3.7	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10
Toxaphene	ND		180	110	ug/Kg	☼	02/20/25 13:01	02/21/25 14:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*02/20/25 13:01*	*02/21/25 14:04*	*10*
DCB Decachlorobiphenyl	*217*	*S1+*	*45 - 120*	*02/20/25 13:01*	*02/21/25 14:04*	*10*
Tetrachloro-m-xylene	*64*		*30 - 124*	*02/20/25 13:01*	*02/21/25 14:04*	*10*
Tetrachloro-m-xylene	*80*		*30 - 124*	*02/20/25 13:01*	*02/21/25 14:04*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	02/17/25 07:09	02/18/25 17:13	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	02/17/25 07:09	02/18/25 17:13	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	02/17/25 07:09	02/18/25 17:13	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	02/17/25 07:09	02/18/25 17:13	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	02/17/25 07:09	02/18/25 17:13	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	02/17/25 07:09	02/18/25 17:13	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	02/17/25 07:09	02/18/25 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*60 - 154*	*02/17/25 07:09*	*02/18/25 17:13*	*1*
Tetrachloro-m-xylene	*114*		*60 - 154*	*02/17/25 07:09*	*02/18/25 17:13*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*02/17/25 07:09*	*02/18/25 17:13*	*1*
DCB Decachlorobiphenyl	*114*		*65 - 174*	*02/17/25 07:09*	*02/18/25 17:13*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.8	ug/Kg	☼	02/19/25 09:29	02/24/25 16:28	1
Silvex (2,4,5-TP)	ND		18	6.5	ug/Kg	☼	02/19/25 09:29	02/24/25 16:28	1
2,4-D	ND		18	11	ug/Kg	☼	02/19/25 09:29	02/24/25 16:28	1
Dichlorprop	ND		18	9.1	ug/Kg	☼	02/19/25 09:29	02/24/25 16:28	1

Client Sample ID: TP-31 2-4 Ft
Lab Sample ID: 480-227331-12

Date Collected: 02/12/25 15:00
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 91.1

Method: SW846 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		18	5.9	ug/Kg	☼	02/19/25 09:29	02/24/25 16:28	1
Picloram	ND		18	7.8	ug/Kg	☼	02/19/25 09:29	02/24/25 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*67*		*28 - 129*	*02/19/25 09:29*	*02/24/25 16:28*	*1*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*02/19/25 09:29*	*02/24/25 16:28*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.54	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluoropentanoic acid (PFPeA)	ND		0.27	0.068	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorohexanoic acid (PFHxA)	**0.065**	**J**	0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluoroheptanoic acid (PFHpA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorooctanoic acid (PFOA)	**0.057**	**J**	0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorononanoic acid (PFNA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorodecanoic acid (PFDA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorododecanoic acid (PFDoA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorooctanesulfonic acid (PFOS)	**0.12**	**J**	0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorononanesulfonic acid (PFNS)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.54	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.54	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.54	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.4	0.34	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.4	0.34	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.54	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.54	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1

Client Sample ID: TP-31 2-4 Ft
Lab Sample ID: 480-227331-12
Date Collected: 02/12/25 15:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 91.1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.27	0.068	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.27	0.068	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.54	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.54	0.14	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.27	0.068	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.68	0.17	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.4	0.84	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.4	0.84	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.14	0.034	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.27	0.068	ug/Kg	☼	02/17/25 08:26	02/18/25 22:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C5 PFPeA	*87.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C5 PFHxA	*90.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C4 PFHpA	*94.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C8 PFOA	*88.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C9 PFNA	*99.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C6 PFDA	*97.2*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C7 PFUnA	*96.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C2 PFTeDA	*83.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C3 PFBS	*84.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C3 PFHxS	*82.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C8 PFOS	*82.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C8 PFOSA	*82.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
d3-NMeFOSAA	*81.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
d5-NEtFOSAA	*104*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
M2-4:2 FTS	*137*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
M2-6:2 FTS	*108*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
M2-8:2 FTS	*106*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C3 HFPO-DA	*93.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
d7-N-MeFOSE-M	*60.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
d9-N-EtFOSE-M	*56.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
d5-NEtPFOSA	*70.5*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
D3-NMeFOSA	*77.3*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*
13C2-PFDoDA	*91.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 22:47*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5330**		11.0	9.5	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Antimony	ND		16.5	0.58	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Arsenic	**2.3**		2.2	0.97	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Barium	**500**		0.55	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Beryllium	**0.22**		0.22	0.044	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1

Client Sample ID: TP-31 2-4 Ft
Lab Sample ID: 480-227331-12
Date Collected: 02/12/25 15:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 91.1

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.16	J	0.22	0.077	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Calcium	43600		55.1	29.8	mg/Kg	☼	02/14/25 12:34	02/18/25 15:42	1
Chromium	7.0		0.55	0.40	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Cobalt	2.8		0.55	0.11	mg/Kg	☼	02/14/25 12:34	02/18/25 15:42	1
Copper	14.9		1.1	0.63	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Iron	7100		11.0	9.3	mg/Kg	☼	02/14/25 12:34	02/18/25 15:42	1
Lead	54.7		1.1	0.51	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Magnesium	8710		22.0	9.3	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Manganese	446		1.1	0.31	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Nickel	7.9		5.5	0.28	mg/Kg	☼	02/14/25 12:34	02/18/25 15:42	1
Potassium	1160		33.1	26.7	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Selenium	ND		4.4	0.88	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Silver	ND		0.66	0.22	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Sodium	244		154	67.6	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Thallium	ND		6.6	0.84	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Vanadium	10.5		0.55	0.14	mg/Kg	☼	02/14/25 12:34	02/17/25 19:04	1
Zinc	84.9		2.2	1.1	mg/Kg	☼	02/14/25 12:34	02/18/25 15:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.022	0.0051	mg/Kg	☼	02/14/25 10:25	02/14/25 13:12	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-32 2-3 Ft
Lab Sample ID: 480-227331-13
Date Collected: 02/12/25 14:35
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,1,2,2-Tetrachloroethane	ND		5.1	0.82	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1	1.2	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,1,2-Trichloroethane	ND		5.1	0.66	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,1-Dichloroethane	ND		5.1	0.62	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,1-Dichloroethene	ND		5.1	0.62	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,2,4-Trimethylbenzene	ND		5.1	0.98	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.5	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,2-Dichlorobenzene	ND		5.1	0.40	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,2-Dichloroethane	ND		5.1	0.26	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,2-Dichloropropane	ND		5.1	2.5	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,3,5-Trimethylbenzene	ND		5.1	0.33	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,3-Dichlorobenzene	ND		5.1	0.26	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,4-Dichlorobenzene	ND		5.1	0.71	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
2-Butanone (MEK)	ND		25	1.9	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
4-Isopropyltoluene	ND		5.1	0.41	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.7	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Acetone	ND		25	4.3	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Benzene	ND		5.1	0.25	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Bromoform	ND		5.1	2.5	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Bromomethane	ND		5.1	0.46	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Carbon disulfide	ND		5.1	2.5	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Carbon tetrachloride	ND		5.1	0.49	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Chlorobenzene	ND		5.1	0.67	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Dibromochloromethane	ND		5.1	0.65	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Chloroethane	ND		5.1	1.1	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Chloroform	**0.56**	**J B**	5.1	0.31	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Chloromethane	ND		5.1	0.31	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
cis-1,2-Dichloroethene	ND		5.1	0.65	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Cyclohexane	ND		5.1	0.71	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Bromodichloromethane	ND		5.1	0.68	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Dichlorodifluoromethane	ND		5.1	0.42	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Ethylbenzene	ND		5.1	0.35	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
1,2-Dibromoethane	ND		5.1	0.65	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Isopropylbenzene	ND		5.1	0.77	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Methyl acetate	ND		25	3.1	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Methyl tert-butyl ether	ND		5.1	0.50	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Methylcyclohexane	ND		5.1	0.77	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Methylene Chloride	ND		5.1	2.3	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
m,p-Xylene	ND		10	0.85	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Naphthalene	ND		5.1	0.68	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
n-Butylbenzene	ND		5.1	0.44	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
N-Propylbenzene	ND		5.1	0.41	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
o-Xylene	ND		5.1	0.66	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
sec-Butylbenzene	ND		5.1	0.44	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Tetrachloroethene	ND		5.1	0.68	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Toluene	ND		5.1	0.38	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1

Client Sample ID: TP-32 2-3 Ft
Lab Sample ID: 480-227331-13
Date Collected: 02/12/25 14:35
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.1	0.52	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
trans-1,3-Dichloropropene	ND		5.1	2.2	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Trichloroethene	ND		5.1	1.1	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Trichlorofluoromethane	ND		5.1	0.48	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Vinyl chloride	ND		5.1	0.62	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Xylenes, Total	ND		10	0.85	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
cis-1,3-Dichloropropene	ND		5.1	0.73	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
Styrene	ND		5.1	0.25	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1
tert-Butylbenzene	ND		5.1	0.53	ug/Kg	☼	02/13/25 13:48	02/14/25 15:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/13/25 13:48*	*02/14/25 15:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*02/13/25 13:48*	*02/14/25 15:09*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*	*02/13/25 13:48*	*02/14/25 15:09*	*1*
Toluene-d8 (Surr)	*90*		*71 - 125*	*02/13/25 13:48*	*02/14/25 15:09*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*02/13/25 13:48*	*02/14/25 15:09*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**180**	**J**	1000	150	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
bis (2-chloroisopropyl) ether	ND		1000	200	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2,4,5-Trichlorophenol	ND		1000	270	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2,4,6-Trichlorophenol	ND		1000	200	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2,4-Dichlorophenol	ND		1000	110	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2,4-Dimethylphenol	ND		1000	240	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2,4-Dinitrophenol	ND		9800	4600	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2,4-Dinitrotoluene	ND		1000	210	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2,6-Dinitrotoluene	ND		1000	120	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2-Chloronaphthalene	ND		1000	170	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
1,4-Dioxane	ND		590	320	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2-Chlorophenol	ND		1900	180	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2-Methylnaphthalene	**570**	**J**	1000	200	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2-Methylphenol	ND		1000	120	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2-Nitroaniline	ND		1900	150	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
2-Nitrophenol	ND		1000	280	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
3,3'-Dichlorobenzidine	ND		1900	1200	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
3-Nitroaniline	ND		1900	280	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
4,6-Dinitro-2-methylphenol	ND		1900	1000	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
4-Bromophenyl phenyl ether	ND		1000	140	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
4-Chloro-3-methylphenol	ND		1000	250	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
4-Chloroaniline	ND		1000	250	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
4-Chlorophenyl phenyl ether	ND		1000	120	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
4-Methylphenol	ND		1900	120	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
4-Nitroaniline	ND		1900	530	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
4-Nitrophenol	ND		1900	700	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Acenaphthene	**1400**		1000	150	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Acenaphthylene	**420**	**J**	1000	130	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Acetophenone	ND		1000	140	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5

Client Sample ID: TP-32 2-3 Ft
Lab Sample ID: 480-227331-13

Date Collected: 02/12/25 14:35
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 83.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**3700**		1000	250	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Atrazine	ND		1000	350	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Benzaldehyde	ND		1000	800	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Benzo[a]anthracene	**6400**		1000	100	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Benzo[a]pyrene	**5500**		1000	150	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Benzo[b]fluoranthene	**6300**		1000	160	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Benzo[g,h,i]perylene	**2900**		1000	110	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Benzo[k]fluoranthene	**3300**		1000	130	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Bis(2-chloroethoxy)methane	ND		1000	210	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Bis(2-chloroethyl)ether	ND		1000	130	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Bis(2-ethylhexyl) phthalate	ND		1000	340	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Butyl benzyl phthalate	ND		1000	170	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Caprolactam	ND		1000	300	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Carbazole	**1200**		1000	120	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Chrysene	**6300**		1000	220	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Di-n-butyl phthalate	ND		1000	170	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Di-n-octyl phthalate	ND		1000	120	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Dibenz(a,h)anthracene	**940**	**J**	1000	180	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Dibenzofuran	**1400**		1000	120	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Diethyl phthalate	ND		1000	130	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Dimethyl phthalate	ND		1000	120	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Fluoranthene	**15000**		1000	110	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Fluorene	**1900**		1000	120	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Hexachlorobenzene	ND		1000	140	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Hexachlorobutadiene	ND		1000	150	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Hexachlorocyclopentadiene	ND		1000	140	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Hexachloroethane	ND		1000	130	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Indeno[1,2,3-cd]pyrene	**2500**		1000	120	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Isophorone	ND		1000	210	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
N-Nitrosodi-n-propylamine	ND		1000	170	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
N-Nitrosodiphenylamine	ND		1000	810	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Naphthalene	**550**	**J**	1000	130	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Nitrobenzene	ND		1000	110	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Pentachlorophenol	ND		1900	1000	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Phenanthrene	**15000**		1000	150	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Phenol	ND		1000	150	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5
Pyrene	**12000**		1000	120	ug/Kg	☼	02/20/25 06:53	02/21/25 20:35	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2800*	*T J*	*ug/Kg*	☼	*3.48*	*N/A*	*02/20/25 06:53*	*02/21/25 20:35*	*5*
Dibenzothiophene	*860*	*T J N*	*ug/Kg*	☼	*10.85*	*132-65-0*	*02/20/25 06:53*	*02/21/25 20:35*	*5*
Phenanthrene, 1-methyl-	*1800*	*T J N*	*ug/Kg*	☼	*11.45*	*832-69-9*	*02/20/25 06:53*	*02/21/25 20:35*	*5*
Anthracene, 9-methyl-	*2500*	*T J N*	*ug/Kg*	☼	*11.48*	*779-02-2*	*02/20/25 06:53*	*02/21/25 20:35*	*5*
Anthracene, 2-methyl-	*1100*	*T J N*	*ug/Kg*	☼	*11.52*	*613-12-7*	*02/20/25 06:53*	*02/21/25 20:35*	*5*
Unknown	*3000*	*T J*	*ug/Kg*	☼	*11.55*	*N/A*	*02/20/25 06:53*	*02/21/25 20:35*	*5*
Phenanthrene, 2-methyl-	*1500*	*T J N*	*ug/Kg*	☼	*11.58*	*2531-84-2*	*02/20/25 06:53*	*02/21/25 20:35*	*5*
2-Phenylnaphthalene	*1900*	*T J N*	*ug/Kg*	☼	*11.73*	*35465-71-5*	*02/20/25 06:53*	*02/21/25 20:35*	*5*
Unknown	*1400*	*T J*	*ug/Kg*	☼	*11.79*	*N/A*	*02/20/25 06:53*	*02/21/25 20:35*	*5*
Phenanthrene, 2,5-dimethyl-	*1200*	*T J N*	*ug/Kg*	☼	*11.97*	*3674-66-6*	*02/20/25 06:53*	*02/21/25 20:35*	*5*
1,3-Diphenyl-3-methylcyclopropene	*900*	*T J N*	*ug/Kg*	☼	*12.04*	*86544-79-8*	*02/20/25 06:53*	*02/21/25 20:35*	*5*

Client Sample ID: TP-32 2-3 Ft
Lab Sample ID: 480-227331-13
Date Collected: 02/12/25 14:35
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
11H-Benzo[a]fluorene	1100	T J N	ug/Kg	☼	12.60	238-84-6	02/20/25 06:53	02/21/25 20:35	5
Fluoranthene, 2-methyl-	970	T J N	ug/Kg	☼	12.68	33543-31-6	02/20/25 06:53	02/21/25 20:35	5
Benzo[e]pyrene	900	T J N	ug/Kg	☼	14.29	192-97-2	02/20/25 06:53	02/21/25 20:35	5
Perylene	3000	T J N	ug/Kg	☼	14.44	198-55-0	02/20/25 06:53	02/21/25 20:35	5
Benzo[b]triphenylene	1300	T J N	ug/Kg	☼	15.60	215-58-7	02/20/25 06:53	02/21/25 20:35	5
Dibenzo[def,mno]chrysene	1100	T J N	ug/Kg	☼	15.86	191-26-4	02/20/25 06:53	02/21/25 20:35	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		26 - 143	02/20/25 06:53	02/21/25 20:35	5
2-Fluorobiphenyl	80		50 - 121	02/20/25 06:53	02/21/25 20:35	5
2-Fluorophenol	69		36 - 120	02/20/25 06:53	02/21/25 20:35	5
Nitrobenzene-d5	72		40 - 121	02/20/25 06:53	02/21/25 20:35	5
p-Terphenyl-d14	84		46 - 143	02/20/25 06:53	02/21/25 20:35	5
Phenol-d5	78		41 - 120	02/20/25 06:53	02/21/25 20:35	5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	3.8	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
4,4'-DDE	ND		20	4.1	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
4,4'-DDT	**6.8**	**J**	20	4.6	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Aldrin	ND		20	4.9	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
alpha-BHC	ND		20	3.5	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
cis-Chlordane	ND		20	9.8	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
beta-BHC	ND		20	3.5	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
delta-BHC	ND		20	3.7	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Dieldrin	ND		20	4.7	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Endosulfan I	ND		20	3.8	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Endosulfan II	ND		20	3.5	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Endosulfan sulfate	ND		20	3.7	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Endrin	ND		20	3.9	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Endrin aldehyde	ND		20	5.0	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Endrin ketone	ND		20	4.9	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
gamma-BHC (Lindane)	ND		20	3.6	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
trans-Chlordane	ND		20	6.3	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Heptachlor	ND		20	4.3	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Heptachlor epoxide	ND		20	5.1	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Methoxychlor	ND		20	4.0	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10
Toxaphene	ND		200	110	ug/Kg	☼	02/20/25 13:01	02/21/25 14:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		45 - 120	02/20/25 13:01	02/21/25 14:23	10
DCB Decachlorobiphenyl	493	S1+	45 - 120	02/20/25 13:01	02/21/25 14:23	10
Tetrachloro-m-xylene	57		30 - 124	02/20/25 13:01	02/21/25 14:23	10
Tetrachloro-m-xylene	76		30 - 124	02/20/25 13:01	02/21/25 14:23	10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.056	mg/Kg	☼	02/17/25 07:09	02/18/25 17:32	1
PCB-1221	ND		0.29	0.056	mg/Kg	☼	02/17/25 07:09	02/18/25 17:32	1
PCB-1232	ND		0.29	0.056	mg/Kg	☼	02/17/25 07:09	02/18/25 17:32	1

Client Sample ID: TP-32 2-3 Ft
Lab Sample ID: 480-227331-13

Date Collected: 02/12/25 14:35
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 83.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.29	0.056	mg/Kg	☼	02/17/25 07:09	02/18/25 17:32	1
PCB-1248	ND		0.29	0.056	mg/Kg	☼	02/17/25 07:09	02/18/25 17:32	1
PCB-1254	ND		0.29	0.13	mg/Kg	☼	02/17/25 07:09	02/18/25 17:32	1
PCB-1260	ND		0.29	0.13	mg/Kg	☼	02/17/25 07:09	02/18/25 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*60 - 154*	*02/17/25 07:09*	*02/18/25 17:32*	*1*
Tetrachloro-m-xylene	*97*		*60 - 154*	*02/17/25 07:09*	*02/18/25 17:32*	*1*
DCB Decachlorobiphenyl	*90*		*65 - 174*	*02/17/25 07:09*	*02/18/25 17:32*	*1*
DCB Decachlorobiphenyl	*97*		*65 - 174*	*02/17/25 07:09*	*02/18/25 17:32*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.3	ug/Kg	☼	02/19/25 09:29	02/24/25 16:47	1
Silvex (2,4,5-TP)	ND		20	7.1	ug/Kg	☼	02/19/25 09:29	02/24/25 16:47	1
2,4-D	ND		20	12	ug/Kg	☼	02/19/25 09:29	02/24/25 16:47	1
Dichlorprop	ND		20	9.8	ug/Kg	☼	02/19/25 09:29	02/24/25 16:47	1
Pentachlorophenol	ND		20	6.4	ug/Kg	☼	02/19/25 09:29	02/24/25 16:47	1
Picloram	ND		20	8.5	ug/Kg	☼	02/19/25 09:29	02/24/25 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*02/19/25 09:29*	*02/24/25 16:47*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*02/19/25 09:29*	*02/24/25 16:47*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluoropentanoic acid (PFPeA)	ND		0.30	0.075	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorohexanoic acid (PFHxA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluoroheptanoic acid (PFHpA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorooctanoic acid (PFOA)	**0.044**	**J**	0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorononanoic acid (PFNA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorodecanoic acid (PFDA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluoroundecanoic acid (PFUnA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorododecanoic acid (PFDoA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorooctanesulfonic acid (PFOS)	**0.10**	**J**	0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorononanesulfonic acid (PFNS)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1

Client Sample ID: TP-32 2-3 Ft
Lab Sample ID: 480-227331-13
Date Collected: 02/12/25 14:35
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.5	0.38	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.5	0.38	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.30	0.075	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.30	0.075	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.60	0.15	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.30	0.075	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.75	0.19	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.8	0.94	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.8	0.94	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.15	0.038	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.30	0.075	ug/Kg	☼	02/17/25 08:26	02/18/25 23:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C5 PFPeA	*84.7*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C5 PFHxA	*91.0*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C4 PFHpA	*88.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C8 PFOA	*84.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C9 PFNA	*98.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C6 PFDA	*94.8*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C7 PFUnA	*99.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C2 PFTeDA	*84.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C3 PFBS	*81.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C3 PFHxS	*83.4*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C8 PFOS	*83.9*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
13C8 PFOSA	*87.1*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
d3-NMeFOSAA	*88.6*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*
d5-NEtFOSAA	*107*		*20 - 150*	*02/17/25 08:26*	*02/18/25 23:04*	*1*

Client Sample ID: TP-32 2-3 Ft
Lab Sample ID: 480-227331-13

Date Collected: 02/12/25 14:35
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 83.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	151	*5+	20 - 150	02/17/25 08:26	02/18/25 23:04	1
M2-6:2 FTS	116		20 - 150	02/17/25 08:26	02/18/25 23:04	1
M2-8:2 FTS	117		20 - 150	02/17/25 08:26	02/18/25 23:04	1
13C3 HFPO-DA	87.8		20 - 150	02/17/25 08:26	02/18/25 23:04	1
d7-N-MeFOSE-M	80.4		20 - 150	02/17/25 08:26	02/18/25 23:04	1
d9-N-EtFOSE-M	79.1		20 - 150	02/17/25 08:26	02/18/25 23:04	1
d5-NEtPFOSA	71.7		20 - 150	02/17/25 08:26	02/18/25 23:04	1
D3-NMeFOSA	78.9		20 - 150	02/17/25 08:26	02/18/25 23:04	1
13C2-PFDoDA	92.0		20 - 150	02/17/25 08:26	02/18/25 23:04	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9460**		12.1	10.4	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Antimony	ND		18.2	0.64	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Arsenic	**12.9**		2.4	1.1	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Barium	**157**		0.61	0.17	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Beryllium	**0.49**		0.24	0.048	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Cadmium	**0.90**		0.24	0.085	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Calcium	**36700**		60.6	32.7	mg/Kg	☼	02/14/25 12:34	02/18/25 15:44	1
Chromium	**16.4**		0.61	0.44	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Cobalt	**8.0**		0.61	0.12	mg/Kg	☼	02/14/25 12:34	02/18/25 15:44	1
Copper	**211**		1.2	0.69	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Iron	**21200**		12.1	10.3	mg/Kg	☼	02/14/25 12:34	02/18/25 15:44	1
Lead	**1450**		1.2	0.56	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Magnesium	**9310**		24.2	10.3	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Manganese	**303**		1.2	0.34	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Nickel	**18.6**		6.1	0.30	mg/Kg	☼	02/14/25 12:34	02/18/25 15:44	1
Potassium	**2150**		36.4	29.4	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Selenium	ND		4.8	0.97	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Silver	**0.55**	**J**	0.73	0.24	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Sodium	**307**		170	74.3	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Thallium	ND		7.3	0.92	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Vanadium	**21.5**		0.61	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 19:06	1
Zinc	**883**		2.4	1.2	mg/Kg	☼	02/14/25 12:34	02/18/25 15:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**5.7**		0.13	0.029	mg/Kg	☼	02/14/25 10:25	02/14/25 15:24	5

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-31 7-8 Ft
Lab Sample ID: 480-227331-14
Date Collected: 02/12/25 14:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2,4-Dinitrophenol	ND		1900	920	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
1,4-Dioxane	ND		120	64	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2-Chlorophenol	ND		390	36	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2-Methylphenol	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
3,3'-Dichlorobenzidine	ND		390	230	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
4-Methylphenol	ND		390	23	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Acenaphthene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Acenaphthylene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Acetophenone	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Anthracene	ND		200	49	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Atrazine	ND		200	69	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Caprolactam	ND		200	60	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Carbazole	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Chrysene	ND		200	44	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Dibenzofuran	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1

Client Sample ID: TP-31 7-8 Ft
Lab Sample ID: 480-227331-14
Date Collected: 02/12/25 14:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Fluoranthene	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Fluorene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Hexachloroethane	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Isophorone	ND		200	42	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Naphthalene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Nitrobenzene	ND		200	22	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Phenanthrene	ND		200	29	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Phenol	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1
Pyrene	ND		200	23	ug/Kg	☼	02/20/25 06:53	02/21/25 21:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2700*	*T J*	*ug/Kg*	☼	*1.88*	*N/A*	*02/20/25 06:53*	*02/21/25 21:01*	*1*
Unknown	*4000*	*T J*	*ug/Kg*	☼	*1.99*	*N/A*	*02/20/25 06:53*	*02/21/25 21:01*	*1*
Unknown	*2700*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/20/25 06:53*	*02/21/25 21:01*	*1*
1,2:4,5-Dibenzopyrene	*160*	*T J N*	*ug/Kg*	☼	*13.17*	*192-65-4*	*02/20/25 06:53*	*02/21/25 21:01*	*1*
Eicosane	*160*	*T J N*	*ug/Kg*	☼	*13.24*	*112-95-8*	*02/20/25 06:53*	*02/21/25 21:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*26 - 143*	*02/20/25 06:53*	*02/21/25 21:01*	*1*
2-Fluorobiphenyl	*87*		*50 - 121*	*02/20/25 06:53*	*02/21/25 21:01*	*1*
2-Fluorophenol	*75*		*36 - 120*	*02/20/25 06:53*	*02/21/25 21:01*	*1*
Nitrobenzene-d5	*81*		*40 - 121*	*02/20/25 06:53*	*02/21/25 21:01*	*1*
p-Terphenyl-d14	*101*		*46 - 143*	*02/20/25 06:53*	*02/21/25 21:01*	*1*
Phenol-d5	*84*		*41 - 120*	*02/20/25 06:53*	*02/21/25 21:01*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.38	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
4,4'-DDE	ND		2.0	0.41	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
cis-Chlordane	ND		2.0	0.98	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Dieldrin	ND		2.0	0.47	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Endrin	ND		2.0	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Endrin aldehyde	ND		2.0	0.50	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1

Client Sample ID: TP-31 7-8 Ft
Lab Sample ID: 480-227331-14

Date Collected: 02/12/25 14:15
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 84.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
trans-Chlordane	ND		2.0	0.63	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1
Toxaphene	ND		20	11	ug/Kg	☼	02/20/25 13:01	02/21/25 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*45 - 120*	*02/20/25 13:01*	*02/21/25 14:43*	*1*
DCB Decachlorobiphenyl	*107*		*45 - 120*	*02/20/25 13:01*	*02/21/25 14:43*	*1*
Tetrachloro-m-xylene	*85*		*30 - 124*	*02/20/25 13:01*	*02/21/25 14:43*	*1*
Tetrachloro-m-xylene	*86*		*30 - 124*	*02/20/25 13:01*	*02/21/25 14:43*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7180**		11.8	10.2	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Antimony	ND		17.7	0.63	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Arsenic	ND		2.4	1.0	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Barium	**28.6**		0.59	0.17	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Beryllium	**0.25**		0.24	0.047	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Cadmium	ND		0.24	0.083	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Calcium	**1160**		59.0	31.9	mg/Kg	☼	02/14/25 12:34	02/18/25 15:46	1
Chromium	**6.6**		0.59	0.43	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Cobalt	**2.2**		0.59	0.12	mg/Kg	☼	02/14/25 12:34	02/18/25 15:46	1
Copper	**3.8**		1.2	0.67	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Iron	**4680**		11.8	10.0	mg/Kg	☼	02/14/25 12:34	02/18/25 15:46	1
Lead	**6.8**		1.2	0.54	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Magnesium	**1580**		23.6	10.0	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Manganese	**39.8**		1.2	0.33	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Nickel	**7.3**		5.9	0.30	mg/Kg	☼	02/14/25 12:34	02/18/25 15:46	1
Potassium	**1050**		35.4	28.6	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Selenium	ND		4.7	0.94	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Silver	ND		0.71	0.24	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Sodium	**123**	**J**	165	72.4	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Thallium	ND		7.1	0.90	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Vanadium	**9.4**		0.59	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 19:14	1
Zinc	**47.4**		2.4	1.2	mg/Kg	☼	02/14/25 12:34	02/18/25 15:46	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0079**	**J**	0.024	0.0054	mg/Kg	☼	02/14/25 10:25	02/14/25 13:15	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-31 10-11 Ft
Lab Sample ID: 480-227331-15
Date Collected: 02/12/25 14:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
1,4-Dioxane	ND		120	65	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2-Chlorophenol	ND		390	37	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2-Methylphenol	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
4-Methylphenol	ND		390	24	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Acenaphthene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Acenaphthylene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Acetophenone	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Anthracene	ND		200	50	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Atrazine	ND		200	70	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Caprolactam	ND		200	60	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Carbazole	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Chrysene	ND		200	45	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Dibenzofuran	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1

Client Sample ID: TP-31 10-11 Ft
Lab Sample ID: 480-227331-15
Date Collected: 02/12/25 14:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Fluoranthene	ND		200	21	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Fluorene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Hexachloroethane	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Isophorone	ND		200	42	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Naphthalene	ND		200	26	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Nitrobenzene	ND		200	22	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Phenanthrene	ND		200	30	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Phenol	ND		200	31	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1
Pyrene	ND		200	24	ug/Kg	☼	02/20/25 06:53	02/24/25 14:31	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*17000*	*T J*	*ug/Kg*	☼	*1.81*	*N/A*	*02/20/25 06:53*	*02/24/25 14:31*	*1*
Unknown	*2400*	*T J*	*ug/Kg*	☼	*3.14*	*N/A*	*02/20/25 06:53*	*02/24/25 14:31*	*1*
Unknown	*200*	*T J*	*ug/Kg*	☼	*6.48*	*N/A*	*02/20/25 06:53*	*02/24/25 14:31*	*1*
Unknown	*230*	*T J*	*ug/Kg*	☼	*15.36*	*N/A*	*02/20/25 06:53*	*02/24/25 14:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*101*		*26 - 143*	*02/20/25 06:53*	*02/24/25 14:31*	*1*
2-Fluorobiphenyl	*88*		*50 - 121*	*02/20/25 06:53*	*02/24/25 14:31*	*1*
2-Fluorophenol	*81*		*36 - 120*	*02/20/25 06:53*	*02/24/25 14:31*	*1*
Nitrobenzene-d5	*86*		*40 - 121*	*02/20/25 06:53*	*02/24/25 14:31*	*1*
p-Terphenyl-d14	*100*		*46 - 143*	*02/20/25 06:53*	*02/24/25 14:31*	*1*
Phenol-d5	*85*		*41 - 120*	*02/20/25 06:53*	*02/24/25 14:31*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.38	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
4,4'-DDE	ND		1.9	0.41	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Aldrin	ND		1.9	0.48	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
alpha-BHC	ND		1.9	0.35	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
cis-Chlordane	ND		1.9	0.96	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
beta-BHC	ND		1.9	0.35	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
delta-BHC	ND		1.9	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Endosulfan II	ND		1.9	0.35	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Endrin	ND		1.9	0.38	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Endrin ketone	ND		1.9	0.48	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
gamma-BHC (Lindane)	ND		1.9	0.36	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1

Client Sample ID: TP-31 10-11 Ft
Lab Sample ID: 480-227331-15

Date Collected: 02/12/25 14:30
Matrix: Solid

Date Received: 02/12/25 16:06
Percent Solids: 84.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		1.9	0.61	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Heptachlor	ND		1.9	0.42	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Heptachlor epoxide	ND		1.9	0.50	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1
Toxaphene	ND		19	11	ug/Kg	☼	02/20/25 13:01	02/21/25 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*45 - 120*	*02/20/25 13:01*	*02/21/25 15:02*	*1*
DCB Decachlorobiphenyl	*110*		*45 - 120*	*02/20/25 13:01*	*02/21/25 15:02*	*1*
Tetrachloro-m-xylene	*83*		*30 - 124*	*02/20/25 13:01*	*02/21/25 15:02*	*1*
Tetrachloro-m-xylene	*85*		*30 - 124*	*02/20/25 13:01*	*02/21/25 15:02*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3680**		11.4	9.8	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Antimony	ND		17.0	0.60	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Arsenic	**1.4**	**J**	2.3	1.0	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Barium	**9.9**		0.57	0.16	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Beryllium	**0.17**	**J**	0.23	0.045	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Cadmium	**0.18**	**J**	0.23	0.079	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Calcium	**87800**		284	153	mg/Kg	☼	02/14/25 12:34	02/18/25 15:59	5
Chromium	**4.4**		0.57	0.41	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Cobalt	**1.8**		0.57	0.11	mg/Kg	☼	02/14/25 12:34	02/18/25 15:48	1
Copper	**6.5**		1.1	0.65	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Iron	**5540**		11.4	9.6	mg/Kg	☼	02/14/25 12:34	02/18/25 15:48	1
Lead	**5.9**		1.1	0.52	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Magnesium	**42700**		22.7	9.6	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Manganese	**244**		1.1	0.32	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Nickel	**5.2**	**J**	5.7	0.28	mg/Kg	☼	02/14/25 12:34	02/18/25 15:48	1
Potassium	**1410**		34.1	27.5	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Selenium	**0.94**	**J**	4.5	0.91	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Silver	ND		0.68	0.23	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Sodium	**246**		159	69.6	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Thallium	ND		6.8	0.86	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Vanadium	**7.4**		0.57	0.15	mg/Kg	☼	02/14/25 12:34	02/17/25 19:16	1
Zinc	**24.9**		2.3	1.2	mg/Kg	☼	02/14/25 12:34	02/18/25 15:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.024	0.0056	mg/Kg	☼	02/14/25 10:25	02/14/25 13:16	1

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-227331-1	TP-33 1-5 Ft	105	97	90	103
480-227331-2	TP-33 5-9	109	99	99	121
480-227331-2 MS	TP-33 5-9	89	96	101	103
480-227331-2 MSD	TP-33 5-9	91	94	98	104
480-227331-3	TP-33 10-11 Ft	102	96	96	112
480-227331-4	MW-2 0.5-3.5 Ft	103	87	104	111
480-227331-5	MW-2 5-8 Ft	104	96	98	108
480-227331-6	MW-2 12-15 Ft	101	98	97	107
480-227331-7	Blind duplicate-1	106	98	96	115
480-227331-8	TP-34 0-4 Ft	104	92	104	115
480-227331-9	TP-34 5-6 Ft	105	91	97	109
480-227331-12	TP-31 2-4 Ft	106	84	106	110
480-227331-13	TP-32 2-3 Ft	104	98	90	104
LCS 480-738931/1-A	Lab Control Sample	104	97	98	107
LCS 480-738936/1-A	Lab Control Sample	100	100	93	101
LCSD 480-738936/2-A	Lab Control Sample Dup	101	99	93	107
MB 480-738931/3-A	Method Blank	106	101	96	110
MB 480-738936/3-A	Method Blank	103	99	89	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(46-143)	(41-120)
480-227331-1	TP-33 1-5 Ft	74	79	71	70	82	75
480-227331-2	TP-33 5-9	79	93	79	86	105	90
480-227331-2 MS	TP-33 5-9	106	91	81	87	103	90
480-227331-2 MSD	TP-33 5-9	106	96	84	90	101	94
480-227331-3	TP-33 10-11 Ft	89	92	78	85	104	86
480-227331-4	MW-2 0.5-3.5 Ft	86	94	82	89	97	94
480-227331-5	MW-2 5-8 Ft	89	92	79	84	100	87
480-227331-6	MW-2 12-15 Ft	88	85	78	78	90	87
480-227331-7	Blind duplicate-1	86	80	67	71	90	78
480-227331-7 - DL	Blind duplicate-1	75	73	64	63	79	68
480-227331-8	TP-34 0-4 Ft	96	91	81	85	96	90
480-227331-9	TP-34 5-6 Ft	74	79	74	73	81	79
480-227331-10	TP-34 6-8 Ft	81	70	59	64	83	66
480-227331-11	TP-34 13-15 Ft	71	69	63	64	75	70
480-227331-12	TP-31 2-4 Ft	61	78	69	71	79	75
480-227331-13	TP-32 2-3 Ft	74	80	69	72	84	78
480-227331-14	TP-31 7-8 Ft	95	87	75	81	101	84
480-227331-15	TP-31 10-11 Ft	101	88	81	86	100	85
LCS 480-739319/2-A	Lab Control Sample	98	88	77	82	91	89

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (26-143)	FBP (50-121)	2FP (36-120)	NBZ (40-121)	TPHd14 (46-143)	PHL (41-120)
MB 480-739319/1-A	Method Blank	88	94	81	85	102	93

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (45-120)	DCBP2 (45-120)	TCX1 (30-124)	TCX2 (30-124)
480-227331-1	TP-33 1-5 Ft	209 S1+	488 S1+	68	91
480-227331-2	TP-33 5-9	92	99	86	82
480-227331-2 MS	TP-33 5-9	93	101	86	86
480-227331-2 MSD	TP-33 5-9	90	100	85	82
480-227331-3	TP-33 10-11 Ft	91	100	84	83
480-227331-4	MW-2 0.5-3.5 Ft	91	147 S1+	66	75
480-227331-5	MW-2 5-8 Ft	93	103	86	81
480-227331-6	MW-2 12-15 Ft	94	104	87	87
480-227331-7	Blind duplicate-1	157 S1+	464 S1+	68	75
480-227331-8	TP-34 0-4 Ft	0 S1-	0 S1-	0 S1-	0 S1-
480-227331-9	TP-34 5-6 Ft	164 S1+	138 S1+	64	88
480-227331-10	TP-34 6-8 Ft	92	101	77	76
480-227331-11	TP-34 13-15 Ft	100	108	88	88
480-227331-12	TP-31 2-4 Ft	87	217 S1+	64	80
480-227331-13	TP-32 2-3 Ft	92	493 S1+	57	76
480-227331-14	TP-31 7-8 Ft	96	107	85	86
480-227331-15	TP-31 10-11 Ft	97	110	83	85
LCS 480-739360/2-A	Lab Control Sample	87	90	72	71
MB 480-739360/1-A	Method Blank	87	93	74	79

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-227331-1	TP-33 1-5 Ft	97	104	100	108
480-227331-2	TP-33 5-9	95	103	104	110
480-227331-2 MS	TP-33 5-9	124	132	134	138
480-227331-2 MSD	TP-33 5-9	123	127	129	137
480-227331-3	TP-33 10-11 Ft	101	107	103	108
480-227331-4	MW-2 0.5-3.5 Ft	98	107	104	111

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-227331-5	MW-2 5-8 Ft	90	97	96	103
480-227331-6	MW-2 12-15 Ft	90	99	100	106
480-227331-7	Blind duplicate-1	86	95	90	96
480-227331-8	TP-34 0-4 Ft	89	98	96	102
480-227331-9	TP-34 5-6 Ft	96	105	104	111
480-227331-12	TP-31 2-4 Ft	100	114	108	114
480-227331-13	TP-32 2-3 Ft	88	97	90	97
LCS 480-739107/2-A	Lab Control Sample	132	144	136	148
MB 480-739107/1-A	Method Blank	113	110	117	117

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(28-129)	(28-129)
480-227331-1	TP-33 1-5 Ft	70	71
480-227331-2	TP-33 5-9	74	76
480-227331-2 MS	TP-33 5-9	67	68
480-227331-2 MSD	TP-33 5-9	70	69
480-227331-3	TP-33 10-11 Ft	72	74
480-227331-4	MW-2 0.5-3.5 Ft	72	74
480-227331-5	MW-2 5-8 Ft	70	70
480-227331-6	MW-2 12-15 Ft	65	64
480-227331-7	Blind duplicate-1	77	79
480-227331-8	TP-34 0-4 Ft	65	67
480-227331-9	TP-34 5-6 Ft	71	72
480-227331-12	TP-31 2-4 Ft	67	71
480-227331-13	TP-32 2-3 Ft	69	74
LCS 480-739257/2-A	Lab Control Sample	76	77
MB 480-739257/1-A	Method Blank	66	73

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
480-227331-1	TP-33 1-5 Ft	98.6	91.7	92.8	98.5	88.8	99.6	91.7	91.8
480-227331-2	TP-33 5-9	98.8	89.9	95.7	99.1	87.5	101	92.6	93.6
480-227331-2 MS	TP-33 5-9	99.2	91.4	90.4	98.3	89.1	102	92.1	89.7
480-227331-2 MSD	TP-33 5-9	99.5	88.6	99.5	101	89.6	103	92.6	94.2
480-227331-3	TP-33 10-11 Ft	99.5	86.7	94.9	97.2	87.0	101	93.1	93.9
480-227331-4	MW-2 0.5-3.5 Ft	98.1	86.8	98.1	97.6	88.7	100	95.8	95.5
480-227331-5	MW-2 5-8 Ft	98.9	88.3	96.0	99.0	89.7	100	93.0	94.3
480-227331-6	MW-2 12-15 Ft	102	90.3	97.4	100	88.0	99.3	91.3	89.7
480-227331-7	Blind duplicate-1	98.4	84.2	89.1	88.7	88.2	100	95.6	98.3
480-227331-8	TP-34 0-4 Ft	90.7	79.0	89.6	90.4	83.8	94.7	94.0	97.4
480-227331-9	TP-34 5-6 Ft	98.2	86.8	93.9	95.5	89.6	101	94.9	94.7
480-227331-12	TP-31 2-4 Ft	98.3	87.7	90.8	94.4	88.0	99.2	97.2	96.5
480-227331-13	TP-32 2-3 Ft	95.8	84.7	91.0	88.9	84.8	98.6	94.8	99.9
LCS 240-644982/3-A	Lab Control Sample	95.3	95.4	95.8	99.0	91.6	94.2	94.4	92.3
LLCS 240-644982/2-A	Lab Control Sample	95.7	95.2	93.6	93.4	83.9	85.1	83.6	79.8
MB 240-644982/1-A	Method Blank	95.5	94.6	95.6	96.6	83.8	93.0	89.6	82.8

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)
480-227331-1	TP-33 1-5 Ft	71.2	85.2	87.0	81.7	81.1	89.4	96.2	122
480-227331-2	TP-33 5-9	74.7	89.3	87.5	90.3	83.2	87.2	114	109
480-227331-2 MS	TP-33 5-9	48.3	89.9	89.3	86.7	82.2	67.0	75.1	100
480-227331-2 MSD	TP-33 5-9	77.7	88.7	89.7	88.5	80.9	77.7	104	94.9
480-227331-3	TP-33 10-11 Ft	79.0	85.6	87.7	83.5	79.0	75.0	99.4	100
480-227331-4	MW-2 0.5-3.5 Ft	78.2	84.2	83.1	84.3	81.7	82.0	106	100
480-227331-5	MW-2 5-8 Ft	77.2	91.0	87.0	89.8	84.2	88.0	100	160 *5+
480-227331-6	MW-2 12-15 Ft	80.2	91.0	89.8	88.7	81.1	80.9	105	110
480-227331-7	Blind duplicate-1	83.7	82.8	82.9	84.1	83.2	86.8	99.8	112
480-227331-8	TP-34 0-4 Ft	80.8	70.9	70.0	74.9	80.2	82.4	94.3	90.1
480-227331-9	TP-34 5-6 Ft	74.9	85.0	85.2	84.7	83.5	81.7	97.4	110
480-227331-12	TP-31 2-4 Ft	83.8	84.9	82.0	82.6	82.8	81.9	104	137
480-227331-13	TP-32 2-3 Ft	84.9	81.4	83.4	83.9	87.1	88.6	107	151 *5+
LCS 240-644982/3-A	Lab Control Sample	81.4	90.7	90.6	99.4	94.9	89.5	88.3	89.6
LLCS 240-644982/2-A	Lab Control Sample	65.5	89.6	84.7	88.2	88.9	77.5	77.5	95.0
MB 240-644982/1-A	Method Blank	60.6	87.7	88.1	94.6	85.9	81.6	82.5	89.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)	PFDoDA (20-150)
480-227331-1	TP-33 1-5 Ft	118	114	96.3	62.2	59.8	64.0	72.2	83.8
480-227331-2	TP-33 5-9	119	113	99.6	72.4	71.8	64.3	69.4	85.8
480-227331-2 MS	TP-33 5-9	105	97.6	97.3	63.8	58.1	63.6	72.1	75.1
480-227331-2 MSD	TP-33 5-9	95.5	93.9	95.9	75.2	73.2	65.9	73.6	88.7
480-227331-3	TP-33 10-11 Ft	106	97.7	96.6	54.7	54.8	57.5	67.2	83.2
480-227331-4	MW-2 0.5-3.5 Ft	105	106	98.2	64.0	62.9	61.6	69.6	85.5
480-227331-5	MW-2 5-8 Ft	118	121	96.9	65.4	61.4	66.9	74.2	89.8
480-227331-6	MW-2 12-15 Ft	111	115	105	63.4	62.1	58.5	67.4	85.7
480-227331-7	Blind duplicate-1	111	114	90.0	73.3	68.7	67.9	74.0	91.2
480-227331-8	TP-34 0-4 Ft	85.6	92.6	92.2	79.6	75.9	71.9	77.0	92.5
480-227331-9	TP-34 5-6 Ft	112	107	95.7	56.8	47.5	66.8	72.9	85.1

Eurofins Buffalo

Isotope Dilution Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)	PFDoDA (20-150)
480-227331-12	TP-31 2-4 Ft	108	106	93.9	60.3	56.6	70.5	77.3	91.6
480-227331-13	TP-32 2-3 Ft	116	117	87.8	80.4	79.1	71.7	78.9	92.0
LCS 240-644982/3-A	Lab Control Sample	87.9	84.4	101	66.2	59.8	64.2	71.4	85.7
LLCS 240-644982/2-A	Lab Control Sample	88.5	75.1	100	33.7	30.5	56.2	61.6	74.6
MB 240-644982/1-A	Method Blank	89.0	84.0	99.7	26.7	23.2	58.3	66.4	73.8

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = D3-NMeFOSA
PFDoDA = 13C2-PFDoDA

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-738931/3-A
Matrix: Solid
Analysis Batch: 738942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738931

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
2-Hexanone	ND		25	2.5	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Acetone	ND		25	4.2	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Benzene	ND		5.0	0.25	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Bromoform	ND		5.0	2.5	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Bromomethane	ND		5.0	0.45	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Chloroethane	ND		5.0	1.1	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Chloroform	0.795	J	5.0	0.31	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Chloromethane	ND		5.0	0.30	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Cyclohexane	ND		5.0	0.70	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Methyl acetate	ND		25	3.0	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
m,p-Xylene	ND		10	0.84	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Naphthalene	ND		5.0	0.67	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
o-Xylene	ND		5.0	0.65	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		02/13/25 13:23	02/13/25 17:41	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-738931/3-A
Matrix: Solid
Analysis Batch: 738942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738931

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0	0.38	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Trichloroethene	ND		5.0	1.1	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Xylenes, Total	ND		10	0.84	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
Styrene	ND		5.0	0.25	ug/Kg		02/13/25 13:23	02/13/25 17:41	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		02/13/25 13:23	02/13/25 17:41	1

Tentatively Identified Compound	*Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*	*02/13/25 13:23*	*02/13/25 17:41*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*02/13/25 13:23*	*02/13/25 17:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*	*02/13/25 13:23*	*02/13/25 17:41*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*02/13/25 13:23*	*02/13/25 17:41*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*02/13/25 13:23*	*02/13/25 17:41*	*1*

Lab Sample ID: LCS 480-738931/1-A
Matrix: Solid
Analysis Batch: 738942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	46.7		ug/Kg		93	77 - 121
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/Kg		96	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9		ug/Kg		102	60 - 140
1,1,2-Trichloroethane	50.0	48.5		ug/Kg		97	78 - 122
1,1-Dichloroethane	50.0	52.0		ug/Kg		104	73 - 126
1,1-Dichloroethene	50.0	48.0		ug/Kg		96	59 - 125
1,2,4-Trichlorobenzene	50.0	53.0		ug/Kg		106	64 - 120
1,2,4-Trimethylbenzene	50.0	51.4		ug/Kg		103	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	36.4		ug/Kg		73	63 - 124
1,2-Dichlorobenzene	50.0	48.5		ug/Kg		97	75 - 120
1,2-Dichloroethane	50.0	51.8		ug/Kg		104	77 - 122
1,2-Dichloropropane	50.0	50.4		ug/Kg		101	75 - 124
1,3,5-Trimethylbenzene	50.0	51.6		ug/Kg		103	74 - 120
1,3-Dichlorobenzene	50.0	48.7		ug/Kg		97	74 - 120
1,4-Dichlorobenzene	50.0	48.8		ug/Kg		98	73 - 120
2-Butanone (MEK)	250	267		ug/Kg		107	70 - 134
2-Hexanone	250	254		ug/Kg		101	59 - 130
4-Isopropyltoluene	50.0	51.4		ug/Kg		103	74 - 120
4-Methyl-2-pentanone (MIBK)	250	255		ug/Kg		102	65 - 133
Acetone	250	268		ug/Kg		107	61 - 137
Benzene	50.0	50.9		ug/Kg		102	79 - 127
Bromoform	50.0	40.3		ug/Kg		81	68 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-738931/1-A
Matrix: Solid
Analysis Batch: 738942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	53.1		ug/Kg		106	37 - 149
Carbon disulfide	50.0	47.9		ug/Kg		96	64 - 131
Carbon tetrachloride	50.0	39.8		ug/Kg		80	75 - 135
Chlorobenzene	50.0	47.7		ug/Kg		95	76 - 124
Dibromochloromethane	50.0	42.2		ug/Kg		84	76 - 125
Chloroethane	50.0	56.4		ug/Kg		113	69 - 135
Chloroform	50.0	51.3		ug/Kg		103	80 - 120
Chloromethane	50.0	60.2		ug/Kg		120	63 - 127
cis-1,2-Dichloroethene	50.0	50.5		ug/Kg		101	81 - 120
Cyclohexane	50.0	54.6		ug/Kg		109	65 - 120
Bromodichloromethane	50.0	50.6		ug/Kg		101	80 - 122
Dichlorodifluoromethane	50.0	56.1		ug/Kg		112	57 - 142
Ethylbenzene	50.0	49.2		ug/Kg		98	80 - 120
1,2-Dibromoethane	50.0	44.3		ug/Kg		89	78 - 120
Isopropylbenzene	50.0	52.1		ug/Kg		104	72 - 120
Methyl acetate	100	99.0		ug/Kg		99	55 - 136
Methyl tert-butyl ether	50.0	48.5		ug/Kg		97	63 - 125
Methylcyclohexane	50.0	53.3		ug/Kg		107	60 - 140
Methylene Chloride	50.0	49.9		ug/Kg		100	61 - 127
m,p-Xylene	50.0	48.9		ug/Kg		98	70 - 130
Naphthalene	50.0	49.6		ug/Kg		99	38 - 137
n-Butylbenzene	50.0	53.5		ug/Kg		107	70 - 120
N-Propylbenzene	50.0	50.7		ug/Kg		101	70 - 130
o-Xylene	50.0	49.3		ug/Kg		99	70 - 130
sec-Butylbenzene	50.0	51.4		ug/Kg		103	74 - 120
Tetrachloroethene	50.0	49.3		ug/Kg		99	74 - 122
Toluene	50.0	48.1		ug/Kg		96	74 - 128
trans-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	78 - 126
trans-1,3-Dichloropropene	50.0	40.5		ug/Kg		81	73 - 123
Trichloroethene	50.0	52.5		ug/Kg		105	77 - 129
Trichlorofluoromethane	50.0	58.5		ug/Kg		117	65 - 146
Vinyl chloride	50.0	58.9		ug/Kg		118	61 - 133
cis-1,3-Dichloropropene	50.0	46.4		ug/Kg		93	80 - 120
Styrene	50.0	46.9		ug/Kg		94	80 - 120
tert-Butylbenzene	50.0	50.2		ug/Kg		100	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*
Toluene-d8 (Surr)	*98*		*71 - 125*
Dibromofluoromethane (Surr)	*107*		*60 - 140*

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 738942

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 738931

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		43.1	43.9		ug/Kg	☼	102	77 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 738942

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 738931

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	ND		43.1	35.3		ug/Kg	☼	82	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		43.1	54.5		ug/Kg	☼	126	60 - 140
1,1,2-Trichloroethane	ND		43.1	37.4		ug/Kg	☼	87	78 - 122
1,1-Dichloroethane	ND		43.1	49.7		ug/Kg	☼	115	73 - 126
1,1-Dichloroethene	ND		43.1	51.6		ug/Kg	☼	120	59 - 125
1,2,4-Trichlorobenzene	ND		43.1	40.2		ug/Kg	☼	93	64 - 120
1,2,4-Trimethylbenzene	ND		43.1	49.5		ug/Kg	☼	115	74 - 120
1,2-Dibromo-3-Chloropropane	ND	F1	43.1	20.3	F1	ug/Kg	☼	47	63 - 124
1,2-Dichlorobenzene	ND		43.1	41.6		ug/Kg	☼	97	75 - 120
1,2-Dichloroethane	ND		43.1	40.7		ug/Kg	☼	95	77 - 122
1,2-Dichloropropane	ND		43.1	45.5		ug/Kg	☼	106	75 - 124
1,3,5-Trimethylbenzene	ND		43.1	50.5		ug/Kg	☼	117	74 - 120
1,3-Dichlorobenzene	ND		43.1	42.9		ug/Kg	☼	100	74 - 120
1,4-Dichlorobenzene	ND		43.1	43.2		ug/Kg	☼	100	73 - 120
2-Butanone (MEK)	ND		215	153		ug/Kg	☼	71	70 - 134
2-Hexanone	ND		215	153		ug/Kg	☼	71	59 - 130
4-Isopropyltoluene	ND		43.1	50.8		ug/Kg	☼	118	74 - 120
4-Methyl-2-pentanone (MIBK)	ND		215	159		ug/Kg	☼	74	65 - 133
Acetone	21	J	215	156		ug/Kg	☼	63	61 - 137
Benzene	ND		43.1	48.6		ug/Kg	☼	113	79 - 127
Bromoform	ND	F1	43.1	25.3	F1	ug/Kg	☼	59	68 - 126
Bromomethane	ND		43.1	46.3		ug/Kg	☼	107	37 - 149
Carbon disulfide	ND		43.1	50.5		ug/Kg	☼	117	64 - 131
Carbon tetrachloride	ND		43.1	36.6		ug/Kg	☼	85	75 - 135
Chlorobenzene	ND		43.1	43.6		ug/Kg	☼	101	76 - 124
Dibromochloromethane	ND	F1	43.1	31.3	F1	ug/Kg	☼	73	76 - 125
Chloroethane	ND		43.1	49.4		ug/Kg	☼	115	69 - 135
Chloroform	0.89	J B	43.1	45.6		ug/Kg	☼	104	80 - 120
Chloromethane	ND		43.1	52.3		ug/Kg	☼	121	63 - 127
cis-1,2-Dichloroethene	ND		43.1	46.9		ug/Kg	☼	109	80 - 120
Cyclohexane	ND	F1	43.1	56.7	F1	ug/Kg	☼	132	65 - 120
Bromodichloromethane	ND		43.1	41.3		ug/Kg	☼	96	80 - 122
Dichlorodifluoromethane	ND		43.1	52.7		ug/Kg	☼	122	57 - 142
Ethylbenzene	ND		43.1	46.5		ug/Kg	☼	108	80 - 120
1,2-Dibromoethane	ND	F1	43.1	31.5	F1	ug/Kg	☼	73	78 - 120
Isopropylbenzene	ND		43.1	51.9		ug/Kg	☼	120	72 - 120
Methyl acetate	ND		86.2	64.9		ug/Kg	☼	75	55 - 136
Methyl tert-butyl ether	ND		43.1	36.3		ug/Kg	☼	84	63 - 125
Methylcyclohexane	ND		43.1	53.3		ug/Kg	☼	124	60 - 140
Methylene Chloride	ND		43.1	45.4		ug/Kg	☼	105	61 - 127
m,p-Xylene	ND		43.1	47.3		ug/Kg	☼	110	70 - 130
Naphthalene	ND		43.1	32.2		ug/Kg	☼	75	38 - 137
n-Butylbenzene	ND		43.1	51.7		ug/Kg	☼	120	70 - 120
N-Propylbenzene	ND		43.1	50.6		ug/Kg	☼	117	70 - 130
o-Xylene	ND		43.1	45.6		ug/Kg	☼	106	70 - 130
sec-Butylbenzene	ND	F1	43.1	51.9	F1	ug/Kg	☼	121	74 - 120
Tetrachloroethene	ND		43.1	48.3		ug/Kg	☼	112	74 - 122
Toluene	0.74	J	43.1	48.0		ug/Kg	☼	110	74 - 128

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 738942

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 738931

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	ND		43.1	50.1		ug/Kg	☼	116	78 - 126
trans-1,3-Dichloropropene	ND	F1	43.1	30.3	F1	ug/Kg	☼	70	73 - 123
Trichloroethene	ND		43.1	48.5		ug/Kg	☼	112	77 - 129
Trichlorofluoromethane	ND		43.1	50.2		ug/Kg	☼	116	65 - 146
Vinyl chloride	ND		43.1	52.2		ug/Kg	☼	121	61 - 133
cis-1,3-Dichloropropene	ND		43.1	37.6		ug/Kg	☼	87	80 - 120
Styrene	ND		43.1	41.7		ug/Kg	☼	97	80 - 120
tert-Butylbenzene	ND		43.1	50.3		ug/Kg	☼	117	73 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*64 - 126*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*103*		*60 - 140*

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 738942

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 738931

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		48.0	49.8		ug/Kg	☼	104	77 - 121	13	30
1,1,2,2-Tetrachloroethane	ND		48.0	39.1		ug/Kg	☼	81	80 - 120	10	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.0	58.2		ug/Kg	☼	121	60 - 140	7	30
1,1,2-Trichloroethane	ND		48.0	41.8		ug/Kg	☼	87	78 - 122	11	30
1,1-Dichloroethane	ND		48.0	54.7		ug/Kg	☼	114	73 - 126	10	30
1,1-Dichloroethene	ND		48.0	56.9		ug/Kg	☼	119	59 - 125	10	30
1,2,4-Trichlorobenzene	ND		48.0	43.7		ug/Kg	☼	91	64 - 120	8	30
1,2,4-Trimethylbenzene	ND		48.0	54.9		ug/Kg	☼	114	74 - 120	10	30
1,2-Dibromo-3-Chloropropane	ND	F1	48.0	27.5	F1	ug/Kg	☼	57	63 - 124	30	30
1,2-Dichlorobenzene	ND		48.0	46.5		ug/Kg	☼	97	75 - 120	11	30
1,2-Dichloroethane	ND		48.0	47.2		ug/Kg	☼	98	77 - 122	15	30
1,2-Dichloropropane	ND		48.0	50.9		ug/Kg	☼	106	75 - 124	11	30
1,3,5-Trimethylbenzene	ND		48.0	54.8		ug/Kg	☼	114	74 - 120	8	30
1,3-Dichlorobenzene	ND		48.0	50.0		ug/Kg	☼	104	74 - 120	15	30
1,4-Dichlorobenzene	ND		48.0	49.2		ug/Kg	☼	103	73 - 120	13	30
2-Butanone (MEK)	ND		240	167		ug/Kg	☼	70	70 - 134	9	30
2-Hexanone	ND		240	181		ug/Kg	☼	75	59 - 130	17	30
4-Isopropyltoluene	ND		48.0	54.7		ug/Kg	☼	114	74 - 120	7	30
4-Methyl-2-pentanone (MIBK)	ND		240	177		ug/Kg	☼	74	65 - 133	10	30
Acetone	21	J	240	185		ug/Kg	☼	68	61 - 137	17	30
Benzene	ND		48.0	54.9		ug/Kg	☼	114	79 - 127	12	30
Bromoform	ND	F1	48.0	30.7	F1	ug/Kg	☼	64	68 - 126	19	30
Bromomethane	ND		48.0	52.4		ug/Kg	☼	109	37 - 149	12	30
Carbon disulfide	ND		48.0	55.2		ug/Kg	☼	115	64 - 131	9	30
Carbon tetrachloride	ND		48.0	43.5		ug/Kg	☼	91	75 - 135	17	30
Chlorobenzene	ND		48.0	47.2		ug/Kg	☼	98	76 - 124	8	30
Dibromochloromethane	ND	F1	48.0	36.5		ug/Kg	☼	76	76 - 125	15	30
Chloroethane	ND		48.0	53.9		ug/Kg	☼	112	69 - 135	9	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 738942

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 738931

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroform	0.89	J B	48.0	51.6		ug/Kg	☼	106	80 - 120	12	30
Chloromethane	ND		48.0	57.9		ug/Kg	☼	121	63 - 127	10	30
cis-1,2-Dichloroethene	ND		48.0	52.2		ug/Kg	☼	109	80 - 120	11	30
Cyclohexane	ND	F1	48.0	59.2	F1	ug/Kg	☼	123	65 - 120	4	30
Bromodichloromethane	ND		48.0	48.9		ug/Kg	☼	102	80 - 122	17	30
Dichlorodifluoromethane	ND		48.0	58.0		ug/Kg	☼	121	57 - 142	10	30
Ethylbenzene	ND		48.0	51.1		ug/Kg	☼	106	80 - 120	9	30
1,2-Dibromoethane	ND	F1	48.0	36.7	F1	ug/Kg	☼	76	78 - 120	15	30
Isopropylbenzene	ND		48.0	56.3		ug/Kg	☼	117	72 - 120	8	30
Methyl acetate	ND		96.0	71.6		ug/Kg	☼	75	55 - 136	10	30
Methyl tert-butyl ether	ND		48.0	42.4		ug/Kg	☼	88	63 - 125	15	30
Methylcyclohexane	ND		48.0	58.5		ug/Kg	☼	122	60 - 140	9	30
Methylene Chloride	ND		48.0	51.7		ug/Kg	☼	108	61 - 127	13	30
m,p-Xylene	ND		48.0	51.3		ug/Kg	☼	107	70 - 130	8	30
Naphthalene	ND		48.0	37.0		ug/Kg	☼	77	38 - 137	14	30
n-Butylbenzene	ND		48.0	57.3		ug/Kg	☼	119	70 - 120	10	30
N-Propylbenzene	ND		48.0	55.8		ug/Kg	☼	116	70 - 130	10	30
o-Xylene	ND		48.0	48.7		ug/Kg	☼	101	70 - 130	6	30
sec-Butylbenzene	ND	F1	48.0	56.3		ug/Kg	☼	117	74 - 120	8	30
Tetrachloroethene	ND		48.0	51.5		ug/Kg	☼	107	74 - 122	6	30
Toluene	0.74	J	48.0	50.9		ug/Kg	☼	104	74 - 128	6	30
trans-1,2-Dichloroethene	ND		48.0	57.4		ug/Kg	☼	120	78 - 126	14	30
trans-1,3-Dichloropropene	ND	F1	48.0	36.5		ug/Kg	☼	76	73 - 123	18	30
Trichloroethene	ND		48.0	55.6		ug/Kg	☼	116	77 - 129	14	30
Trichlorofluoromethane	ND		48.0	56.3		ug/Kg	☼	117	65 - 146	12	30
Vinyl chloride	ND		48.0	57.5		ug/Kg	☼	120	61 - 133	10	30
cis-1,3-Dichloropropene	ND		48.0	46.1		ug/Kg	☼	96	80 - 120	20	30
Styrene	ND		48.0	46.1		ug/Kg	☼	96	80 - 120	10	30
tert-Butylbenzene	ND		48.0	55.3		ug/Kg	☼	115	73 - 120	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*64 - 126*
4-Bromofluorobenzene (Surr)	*94*		*72 - 126*
Toluene-d8 (Surr)	*98*		*71 - 125*
Dibromofluoromethane (Surr)	*104*		*60 - 140*

Lab Sample ID: MB 480-738936/3-A
Matrix: Solid
Analysis Batch: 739010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		02/13/25 09:30	02/14/25 14:22	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-738936/3-A
Matrix: Solid
Analysis Batch: 739010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
2-Hexanone	ND		25	2.5	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Acetone	12.2	J	25	4.2	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Benzene	ND		5.0	0.25	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Bromoform	ND		5.0	2.5	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Bromomethane	ND		5.0	0.45	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Chloroethane	ND		5.0	1.1	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Chloroform	0.490	J	5.0	0.31	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Chloromethane	ND		5.0	0.30	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Cyclohexane	ND		5.0	0.70	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Methyl acetate	ND		25	3.0	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
m,p-Xylene	ND		10	0.84	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Naphthalene	ND		5.0	0.67	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
o-Xylene	ND		5.0	0.65	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Toluene	ND		5.0	0.38	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Trichloroethene	ND		5.0	1.1	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
Xylenes, Total	ND		10	0.84	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		02/13/25 09:30	02/14/25 14:22	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-738936/3-A
Matrix: Solid
Analysis Batch: 739010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.0	0.25	ug/Kg		02/13/25 09:30	02/14/25 14:22	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		02/13/25 09:30	02/14/25 14:22	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol	*11.0*	*J*	*ug/Kg*		*2.71*	*67-63-0*	*02/13/25 09:30*	*02/14/25 14:22*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*	*02/13/25 09:30*	*02/14/25 14:22*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*02/13/25 09:30*	*02/14/25 14:22*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*02/13/25 09:30*	*02/14/25 14:22*	*1*
Toluene-d8 (Surr)	*89*		*71 - 125*	*02/13/25 09:30*	*02/14/25 14:22*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*	*02/13/25 09:30*	*02/14/25 14:22*	*1*

Lab Sample ID: LCS 480-738936/1-A
Matrix: Solid
Analysis Batch: 739010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	44.3		ug/Kg		89	77 - 121
1,1,2,2-Tetrachloroethane	50.0	41.3		ug/Kg		83	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	40.6		ug/Kg		81	60 - 140
1,1,2-Trichloroethane	50.0	44.0		ug/Kg		88	78 - 122
1,1-Dichloroethane	50.0	48.1		ug/Kg		96	73 - 126
1,1-Dichloroethene	50.0	43.0		ug/Kg		86	59 - 125
1,2,4-Trichlorobenzene	50.0	40.2		ug/Kg		80	64 - 120
1,2,4-Trimethylbenzene	50.0	41.5		ug/Kg		83	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	43.2		ug/Kg		86	63 - 124
1,2-Dichlorobenzene	50.0	40.3		ug/Kg		81	75 - 120
1,2-Dichloroethane	50.0	51.6		ug/Kg		103	77 - 122
1,2-Dichloropropane	50.0	49.5		ug/Kg		99	75 - 124
1,3,5-Trimethylbenzene	50.0	41.1		ug/Kg		82	74 - 120
1,3-Dichlorobenzene	50.0	40.5		ug/Kg		81	74 - 120
1,4-Dichlorobenzene	50.0	39.5		ug/Kg		79	73 - 120
2-Butanone (MEK)	250	275		ug/Kg		110	70 - 134
2-Hexanone	250	250		ug/Kg		100	59 - 130
4-Isopropyltoluene	50.0	39.6		ug/Kg		79	74 - 120
4-Methyl-2-pentanone (MIBK)	250	243		ug/Kg		97	65 - 133
Acetone	250	272		ug/Kg		109	61 - 137
Benzene	50.0	47.2		ug/Kg		94	79 - 127
Bromoform	50.0	43.6		ug/Kg		87	68 - 126
Bromomethane	50.0	49.8		ug/Kg		100	37 - 149
Carbon disulfide	50.0	41.6		ug/Kg		83	64 - 131
Carbon tetrachloride	50.0	43.1		ug/Kg		86	75 - 135
Chlorobenzene	50.0	41.6		ug/Kg		83	76 - 124
Dibromochloromethane	50.0	45.7		ug/Kg		91	76 - 125
Chloroethane	50.0	48.3		ug/Kg		97	69 - 135
Chloroform	50.0	47.2		ug/Kg		94	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-738936/1-A
Matrix: Solid
Analysis Batch: 739010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	50.0	47.3		ug/Kg		95	63 - 127
cis-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	81 - 120
Cyclohexane	50.0	42.8		ug/Kg		86	65 - 120
Bromodichloromethane	50.0	50.5		ug/Kg		101	80 - 122
Dichlorodifluoromethane	50.0	35.4		ug/Kg		71	57 - 142
Ethylbenzene	50.0	41.5		ug/Kg		83	80 - 120
1,2-Dibromoethane	50.0	43.1		ug/Kg		86	78 - 120
Isopropylbenzene	50.0	41.2		ug/Kg		82	72 - 120
Methyl acetate	100	101		ug/Kg		101	55 - 136
Methyl tert-butyl ether	50.0	48.3		ug/Kg		97	63 - 125
Methylcyclohexane	50.0	40.0		ug/Kg		80	60 - 140
Methylene Chloride	50.0	49.3		ug/Kg		99	61 - 127
m,p-Xylene	50.0	40.8		ug/Kg		82	70 - 130
Naphthalene	50.0	41.8		ug/Kg		84	38 - 137
n-Butylbenzene	50.0	39.8		ug/Kg		80	70 - 120
N-Propylbenzene	50.0	40.6		ug/Kg		81	70 - 130
o-Xylene	50.0	41.1		ug/Kg		82	70 - 130
sec-Butylbenzene	50.0	39.6		ug/Kg		79	74 - 120
Tetrachloroethene	50.0	39.4		ug/Kg		79	74 - 122
Toluene	50.0	41.8		ug/Kg		84	74 - 128
trans-1,2-Dichloroethene	50.0	46.2		ug/Kg		92	78 - 126
trans-1,3-Dichloropropene	50.0	45.5		ug/Kg		91	73 - 123
Trichloroethene	50.0	45.8		ug/Kg		92	77 - 129
Trichlorofluoromethane	50.0	44.7		ug/Kg		89	65 - 146
Vinyl chloride	50.0	43.5		ug/Kg		87	61 - 133
cis-1,3-Dichloropropene	50.0	49.5		ug/Kg		99	80 - 120
Styrene	50.0	41.3		ug/Kg		83	80 - 120
tert-Butylbenzene	50.0	39.8		ug/Kg		80	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*
Toluene-d8 (Surr)	*93*		*71 - 125*
Dibromofluoromethane (Surr)	*101*		*60 - 140*

Lab Sample ID: LCSD 480-738936/2-A
Matrix: Solid
Analysis Batch: 739010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 738936

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	45.7		ug/Kg		91	77 - 121	3	20
1,1,2,2-Tetrachloroethane	50.0	41.7		ug/Kg		83	80 - 120	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.6		ug/Kg		83	60 - 140	2	20
1,1,2-Trichloroethane	50.0	42.3		ug/Kg		85	78 - 122	4	20
1,1-Dichloroethane	50.0	49.7		ug/Kg		99	73 - 126	3	20
1,1-Dichloroethene	50.0	43.8		ug/Kg		88	59 - 125	2	20
1,2,4-Trichlorobenzene	50.0	40.3		ug/Kg		81	64 - 120	0	20
1,2,4-Trimethylbenzene	50.0	40.2		ug/Kg		80	74 - 120	3	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-738936/2-A
Matrix: Solid
Analysis Batch: 739010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 738936

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			50.0	45.4		ug/Kg		91	63 - 124	5	20
1,2-Dichlorobenzene			50.0	39.6		ug/Kg		79	75 - 120	2	20
1,2-Dichloroethane			50.0	52.0		ug/Kg		104	77 - 122	1	20
1,2-Dichloropropane			50.0	50.0		ug/Kg		100	75 - 124	1	20
1,3,5-Trimethylbenzene			50.0	39.4		ug/Kg		79	74 - 120	4	20
1,3-Dichlorobenzene			50.0	38.5		ug/Kg		77	74 - 120	5	20
1,4-Dichlorobenzene			50.0	38.1		ug/Kg		76	73 - 120	4	20
2-Butanone (MEK)			250	280		ug/Kg		112	70 - 134	2	20
2-Hexanone			250	251		ug/Kg		101	59 - 130	1	20
4-Isopropyltoluene			50.0	37.8		ug/Kg		76	74 - 120	5	20
4-Methyl-2-pentanone (MIBK)			250	259		ug/Kg		104	65 - 133	6	20
Acetone			250	298		ug/Kg		119	61 - 137	9	20
Benzene			50.0	46.5		ug/Kg		93	79 - 127	1	20
Bromoform			50.0	43.6		ug/Kg		87	68 - 126	0	20
Bromomethane			50.0	52.0		ug/Kg		104	37 - 149	4	20
Carbon disulfide			50.0	42.6		ug/Kg		85	64 - 131	2	20
Carbon tetrachloride			50.0	44.7		ug/Kg		89	75 - 135	3	20
Chlorobenzene			50.0	39.1		ug/Kg		78	76 - 124	6	20
Dibromochloromethane			50.0	43.9		ug/Kg		88	76 - 125	4	20
Chloroethane			50.0	50.0		ug/Kg		100	69 - 135	3	20
Chloroform			50.0	48.3		ug/Kg		97	80 - 120	2	20
Chloromethane			50.0	49.0		ug/Kg		98	63 - 127	3	20
cis-1,2-Dichloroethene			50.0	48.9		ug/Kg		98	81 - 120	2	20
Cyclohexane			50.0	44.5		ug/Kg		89	65 - 120	4	20
Bromodichloromethane			50.0	49.9		ug/Kg		100	80 - 122	1	20
Dichlorodifluoromethane			50.0	37.0		ug/Kg		74	57 - 142	4	20
Ethylbenzene			50.0	39.9		ug/Kg		80	80 - 120	4	20
1,2-Dibromoethane			50.0	41.8		ug/Kg		84	78 - 120	3	20
Isopropylbenzene			50.0	39.0		ug/Kg		78	72 - 120	5	20
Methyl acetate			100	110		ug/Kg		110	55 - 136	8	20
Methyl tert-butyl ether			50.0	52.6		ug/Kg		105	63 - 125	8	20
Methylcyclohexane			50.0	40.8		ug/Kg		82	60 - 140	2	20
Methylene Chloride			50.0	52.1		ug/Kg		104	61 - 127	6	20
m,p-Xylene			50.0	39.4		ug/Kg		79	70 - 130	4	20
Naphthalene			50.0	43.3		ug/Kg		87	38 - 137	3	20
n-Butylbenzene			50.0	38.0		ug/Kg		76	70 - 120	5	20
N-Propylbenzene			50.0	38.4		ug/Kg		77	70 - 130	6	20
o-Xylene			50.0	40.9		ug/Kg		82	70 - 130	1	20
sec-Butylbenzene			50.0	37.4		ug/Kg		75	74 - 120	6	20
Tetrachloroethene			50.0	37.1		ug/Kg		74	74 - 122	6	20
Toluene			50.0	39.4		ug/Kg		79	74 - 128	6	20
trans-1,2-Dichloroethene			50.0	47.2		ug/Kg		94	78 - 126	2	20
trans-1,3-Dichloropropene			50.0	41.0		ug/Kg		82	73 - 123	10	20
Trichloroethene			50.0	44.7		ug/Kg		89	77 - 129	2	20
Trichlorofluoromethane			50.0	45.8		ug/Kg		92	65 - 146	2	20
Vinyl chloride			50.0	46.0		ug/Kg		92	61 - 133	6	20
cis-1,3-Dichloropropene			50.0	46.8		ug/Kg		94	80 - 120	6	20
Styrene			50.0	40.2		ug/Kg		80	80 - 120	3	20
tert-Butylbenzene			50.0	37.1		ug/Kg		74	73 - 120	7	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*
Toluene-d8 (Surr)	*93*		*71 - 125*
Dibromofluoromethane (Surr)	*107*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-739319/1-A
Matrix: Solid
Analysis Batch: 739398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2-Chloronaphthalene	ND		170	28	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
1,4-Dioxane	ND		100	55	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2-Chlorophenol	ND		330	31	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2-Methylnaphthalene	ND		170	34	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2-Methylphenol	ND		170	20	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2-Nitroaniline	ND		330	25	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
2-Nitrophenol	ND		170	48	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
3-Nitroaniline	ND		330	47	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
4-Chloroaniline	ND		170	42	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
4-Methylphenol	ND		330	20	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
4-Nitroaniline	ND		330	89	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
4-Nitrophenol	ND		330	120	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Acenaphthene	ND		170	25	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Acenaphthylene	ND		170	22	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Acetophenone	ND		170	23	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Anthracene	ND		170	42	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Atrazine	ND		170	59	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Benzaldehyde	ND		170	140	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Benzo[a]anthracene	ND		170	17	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Benzo[a]pyrene	ND		170	25	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		02/20/25 06:53	02/21/25 11:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-739319/1-A
Matrix: Solid
Analysis Batch: 739398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		170	28	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Caprolactam	ND		170	51	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Carbazole	ND		170	20	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Chrysene	ND		170	38	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Dibenzofuran	ND		170	20	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Diethyl phthalate	ND		170	22	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Dimethyl phthalate	ND		170	20	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Fluoranthene	ND		170	18	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Fluorene	ND		170	20	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Hexachlorobenzene	ND		170	23	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Hexachlorobutadiene	ND		170	25	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Hexachloroethane	ND		170	22	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Isophorone	ND		170	36	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Naphthalene	ND		170	22	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Nitrobenzene	ND		170	19	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Pentachlorophenol	ND		330	170	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Phenanthrene	ND		170	25	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Phenol	ND		170	26	ug/Kg		02/20/25 06:53	02/21/25 11:34	1
Pyrene	ND		170	20	ug/Kg		02/20/25 06:53	02/21/25 11:34	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2240*	*T J*	*ug/Kg*		*1.88*	*N/A*	*02/20/25 06:53*	*02/21/25 11:34*	*1*
Unknown	*2850*	*T J*	*ug/Kg*		*2.00*	*N/A*	*02/20/25 06:53*	*02/21/25 11:34*	*1*
Unknown	*2490*	*T J*	*ug/Kg*		*3.47*	*N/A*	*02/20/25 06:53*	*02/21/25 11:34*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*26 - 143*	*02/20/25 06:53*	*02/21/25 11:34*	*1*
2-Fluorobiphenyl	*94*		*50 - 121*	*02/20/25 06:53*	*02/21/25 11:34*	*1*
2-Fluorophenol	*81*		*36 - 120*	*02/20/25 06:53*	*02/21/25 11:34*	*1*
Nitrobenzene-d5	*85*		*40 - 121*	*02/20/25 06:53*	*02/21/25 11:34*	*1*
p-Terphenyl-d14	*102*		*46 - 143*	*02/20/25 06:53*	*02/21/25 11:34*	*1*
Phenol-d5	*93*		*41 - 120*	*02/20/25 06:53*	*02/21/25 11:34*	*1*

Lab Sample ID: LCS 480-739319/2-A
Matrix: Solid
Analysis Batch: 739398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	1330	1120		ug/Kg		84	59 - 120
bis (2-chloroisopropyl) ether	1330	1130		ug/Kg		85	44 - 120
2,4,5-Trichlorophenol	1330	1190		ug/Kg		89	59 - 126

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-739319/2-A
Matrix: Solid
Analysis Batch: 739398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	1330	1140		ug/Kg		86	59 - 123
2,4-Dichlorophenol	1330	1160		ug/Kg		87	61 - 120
2,4-Dimethylphenol	1330	1110		ug/Kg		83	59 - 120
2,4-Dinitrophenol	2670	2730		ug/Kg		102	41 - 146
2,4-Dinitrotoluene	1330	1210		ug/Kg		91	63 - 120
2,6-Dinitrotoluene	1330	1230		ug/Kg		92	66 - 120
2-Chloronaphthalene	1330	1090		ug/Kg		82	57 - 120
1,4-Dioxane	1330	576		ug/Kg		43	23 - 120
2-Chlorophenol	1330	1070		ug/Kg		81	53 - 120
2-Methylnaphthalene	1330	1120		ug/Kg		84	59 - 120
2-Methylphenol	1330	1120		ug/Kg		84	54 - 120
2-Nitroaniline	1330	1150		ug/Kg		87	61 - 120
2-Nitrophenol	1330	1080		ug/Kg		81	56 - 120
3,3'-Dichlorobenzidine	1330	878		ug/Kg		66	54 - 120
3-Nitroaniline	1330	919		ug/Kg		69	48 - 120
4,6-Dinitro-2-methylphenol	2670	2460		ug/Kg		92	49 - 122
4-Bromophenyl phenyl ether	1330	1210		ug/Kg		91	58 - 120
4-Chloro-3-methylphenol	1330	1220		ug/Kg		92	61 - 120
4-Chloroaniline	1330	904		ug/Kg		68	38 - 120
4-Chlorophenyl phenyl ether	1330	1190		ug/Kg		89	63 - 124
4-Methylphenol	1330	1190		ug/Kg		90	55 - 120
4-Nitroaniline	1330	1160		ug/Kg		87	56 - 120
4-Nitrophenol	2670	2320		ug/Kg		87	43 - 147
Acenaphthene	1330	1140		ug/Kg		86	62 - 120
Acenaphthylene	1330	1200		ug/Kg		90	58 - 121
Acetophenone	1330	1090		ug/Kg		82	54 - 120
Anthracene	1330	1200		ug/Kg		90	62 - 120
Atrazine	1330	1280		ug/Kg		96	60 - 127
Benzaldehyde	1330	1020		ug/Kg		77	10 - 150
Benzo[a]anthracene	1330	1180		ug/Kg		88	65 - 120
Benzo[a]pyrene	1330	1200		ug/Kg		90	64 - 120
Benzo[b]fluoranthene	1330	1200		ug/Kg		90	64 - 120
Benzo[g,h,i]perylene	1330	1170		ug/Kg		87	45 - 145
Benzo[k]fluoranthene	1330	1220		ug/Kg		92	65 - 120
Bis(2-chloroethoxy)methane	1330	1100		ug/Kg		83	55 - 120
Bis(2-chloroethyl)ether	1330	1040		ug/Kg		78	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1160		ug/Kg		87	61 - 133
Butyl benzyl phthalate	1330	1170		ug/Kg		88	61 - 129
Caprolactam	1330	1250		ug/Kg		94	47 - 120
Carbazole	1330	1200		ug/Kg		90	65 - 120
Chrysene	1330	1170		ug/Kg		88	64 - 120
Di-n-butyl phthalate	1330	1200		ug/Kg		90	58 - 130
Di-n-octyl phthalate	1330	1150		ug/Kg		86	57 - 133
Dibenz(a,h)anthracene	1330	1180		ug/Kg		88	54 - 132
Dibenzofuran	1330	1150		ug/Kg		86	63 - 120
Diethyl phthalate	1330	1230		ug/Kg		92	66 - 120
Dimethyl phthalate	1330	1210		ug/Kg		91	65 - 124
Fluoranthene	1330	1220		ug/Kg		92	62 - 120
Fluorene	1330	1200		ug/Kg		90	63 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-739319/2-A
Matrix: Solid
Analysis Batch: 739398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1330	1190		ug/Kg		89	60 - 120
Hexachlorobutadiene	1330	997		ug/Kg		75	45 - 120
Hexachlorocyclopentadiene	1330	1010		ug/Kg		76	47 - 120
Hexachloroethane	1330	918		ug/Kg		69	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1180		ug/Kg		88	56 - 134
Isophorone	1330	1160		ug/Kg		87	56 - 120
N-Nitrosodi-n-propylamine	1330	1150		ug/Kg		86	52 - 120
N-Nitrosodiphenylamine	1330	1180		ug/Kg		89	51 - 128
Naphthalene	1330	1040		ug/Kg		78	55 - 120
Nitrobenzene	1330	1040		ug/Kg		78	54 - 120
Pentachlorophenol	2670	2390		ug/Kg		90	10 - 120
Phenanthrene	1330	1200		ug/Kg		90	60 - 120
Phenol	1330	1090		ug/Kg		82	53 - 120
Pyrene	1330	1200		ug/Kg		90	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*98*		*26 - 143*
2-Fluorobiphenyl	*88*		*50 - 121*
2-Fluorophenol	*77*		*36 - 120*
Nitrobenzene-d5	*82*		*40 - 121*
p-Terphenyl-d14	*91*		*46 - 143*
Phenol-d5	*89*		*41 - 120*

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 739398

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739319

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	ND		1580	1380		ug/Kg	☼	87	58 - 120
bis (2-chloroisopropyl) ether	ND		1580	1390		ug/Kg	☼	88	31 - 120
2,4,5-Trichlorophenol	ND		1580	1450		ug/Kg	☼	91	46 - 120
2,4,6-Trichlorophenol	ND		1580	1410		ug/Kg	☼	89	41 - 123
2,4-Dichlorophenol	ND		1580	1440		ug/Kg	☼	91	45 - 120
2,4-Dimethylphenol	ND		1580	1380		ug/Kg	☼	87	52 - 120
2,4-Dinitrophenol	ND		3170	3080		ug/Kg	☼	97	41 - 146
2,4-Dinitrotoluene	ND		1580	1430		ug/Kg	☼	90	63 - 125
2,6-Dinitrotoluene	ND		1580	1480		ug/Kg	☼	93	66 - 120
2-Chloronaphthalene	ND		1580	1350		ug/Kg	☼	85	57 - 120
1,4-Dioxane	ND		1580	778		ug/Kg	☼	49	13 - 120
2-Chlorophenol	ND		1580	1290		ug/Kg	☼	81	43 - 120
2-Methylnaphthalene	ND		1580	1350		ug/Kg	☼	85	55 - 120
2-Methylphenol	ND		1580	1330		ug/Kg	☼	84	48 - 120
2-Nitroaniline	ND		1580	1390		ug/Kg	☼	88	61 - 120
2-Nitrophenol	ND		1580	1340		ug/Kg	☼	85	37 - 120
3,3'-Dichlorobenzidine	ND		1580	1110		ug/Kg	☼	70	37 - 126
3-Nitroaniline	ND		1580	1150		ug/Kg	☼	73	48 - 120
4,6-Dinitro-2-methylphenol	ND		3170	3080		ug/Kg	☼	97	23 - 149
4-Bromophenyl phenyl ether	ND		1580	1520		ug/Kg	☼	96	58 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 739398

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739319

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloro-3-methylphenol	ND		1580	1470		ug/Kg	☼	93	49 - 125
4-Chloroaniline	ND		1580	1090		ug/Kg	☼	69	38 - 120
4-Chlorophenyl phenyl ether	ND		1580	1420		ug/Kg	☼	89	63 - 124
4-Methylphenol	ND		1580	1390		ug/Kg	☼	88	50 - 120
4-Nitroaniline	ND		1580	1320		ug/Kg	☼	83	47 - 120
4-Nitrophenol	ND		3170	2650		ug/Kg	☼	83	31 - 147
Acenaphthene	ND		1580	1390		ug/Kg	☼	88	60 - 120
Acenaphthylene	ND		1580	1470		ug/Kg	☼	93	58 - 121
Acetophenone	ND		1580	1300		ug/Kg	☼	82	47 - 120
Anthracene	ND		1580	1470		ug/Kg	☼	93	62 - 120
Atrazine	ND		1580	1450		ug/Kg	☼	92	60 - 150
Benzaldehyde	ND		1580	1300		ug/Kg	☼	82	10 - 150
Benzo[a]anthracene	ND		1580	1460		ug/Kg	☼	92	65 - 120
Benzo[a]pyrene	ND		1580	1530		ug/Kg	☼	96	64 - 120
Benzo[b]fluoranthene	ND		1580	1510		ug/Kg	☼	95	10 - 150
Benzo[g,h,i]perylene	ND		1580	1450		ug/Kg	☼	92	45 - 145
Benzo[k]fluoranthene	ND		1580	1550		ug/Kg	☼	98	23 - 150
Bis(2-chloroethoxy)methane	ND		1580	1390		ug/Kg	☼	87	52 - 120
Bis(2-chloroethyl)ether	ND		1580	1270		ug/Kg	☼	80	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1580	1450		ug/Kg	☼	92	61 - 133
Butyl benzyl phthalate	ND		1580	1490		ug/Kg	☼	94	61 - 120
Caprolactam	ND		1580	1430		ug/Kg	☼	90	37 - 133
Carbazole	ND		1580	1420		ug/Kg	☼	89	59 - 120
Chrysene	ND		1580	1400		ug/Kg	☼	89	64 - 120
Di-n-butyl phthalate	ND		1580	1450		ug/Kg	☼	91	58 - 130
Di-n-octyl phthalate	ND		1580	1450		ug/Kg	☼	91	57 - 133
Dibenz(a,h)anthracene	ND		1580	1480		ug/Kg	☼	93	54 - 132
Dibenzofuran	ND		1580	1390		ug/Kg	☼	88	62 - 120
Diethyl phthalate	ND		1580	1460		ug/Kg	☼	92	66 - 120
Dimethyl phthalate	ND		1580	1450		ug/Kg	☼	92	65 - 124
Fluoranthene	ND		1580	1410		ug/Kg	☼	89	62 - 120
Fluorene	ND		1580	1430		ug/Kg	☼	91	63 - 120
Hexachlorobenzene	ND		1580	1470		ug/Kg	☼	93	60 - 120
Hexachlorobutadiene	ND		1580	1230		ug/Kg	☼	77	45 - 120
Hexachlorocyclopentadiene	ND		1580	1270		ug/Kg	☼	80	31 - 120
Hexachloroethane	ND		1580	1150		ug/Kg	☼	73	21 - 120
Indeno[1,2,3-cd]pyrene	ND		1580	1470		ug/Kg	☼	93	56 - 134
Isophorone	ND		1580	1420		ug/Kg	☼	90	56 - 120
N-Nitrosodi-n-propylamine	ND		1580	1370		ug/Kg	☼	86	46 - 120
N-Nitrosodiphenylamine	ND		1580	1490		ug/Kg	☼	94	20 - 128
Naphthalene	ND		1580	1280		ug/Kg	☼	81	46 - 120
Nitrobenzene	ND		1580	1310		ug/Kg	☼	83	49 - 120
Pentachlorophenol	ND		3170	2870		ug/Kg	☼	91	10 - 136
Phenanthrene	ND		1580	1450		ug/Kg	☼	91	60 - 122
Phenol	ND		1580	1300		ug/Kg	☼	82	50 - 120
Pyrene	ND		1580	1590		ug/Kg	☼	100	61 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 739398

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739319

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol	*106*		*26 - 143*
2-Fluorobiphenyl	*91*		*50 - 121*
2-Fluorophenol	*81*		*36 - 120*
Nitrobenzene-d5	*87*		*40 - 121*
p-Terphenyl-d14	*103*		*46 - 143*
Phenol-d5	*90*		*41 - 120*

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 739398

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739319

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Biphenyl	ND		1580	1530		ug/Kg	☼	97	58 - 120	11	20
bis (2-chloroisopropyl) ether	ND		1580	1530		ug/Kg	☼	97	31 - 120	9	24
2,4,5-Trichlorophenol	ND		1580	1630		ug/Kg	☼	103	46 - 120	12	18
2,4,6-Trichlorophenol	ND		1580	1570		ug/Kg	☼	99	41 - 123	11	19
2,4-Dichlorophenol	ND		1580	1550		ug/Kg	☼	98	45 - 120	8	19
2,4-Dimethylphenol	ND		1580	1490		ug/Kg	☼	94	52 - 120	8	42
2,4-Dinitrophenol	ND		3170	3490		ug/Kg	☼	110	41 - 146	13	22
2,4-Dinitrotoluene	ND		1580	1620		ug/Kg	☼	103	63 - 125	13	20
2,6-Dinitrotoluene	ND		1580	1650		ug/Kg	☼	104	66 - 120	11	15
2-Chloronaphthalene	ND		1580	1530		ug/Kg	☼	97	57 - 120	12	21
1,4-Dioxane	ND		1580	887		ug/Kg	☼	56	13 - 120	13	50
2-Chlorophenol	ND		1580	1460		ug/Kg	☼	92	43 - 120	13	25
2-Methylnaphthalene	ND		1580	1460		ug/Kg	☼	92	55 - 120	8	21
2-Methylphenol	ND		1580	1440		ug/Kg	☼	91	48 - 120	8	27
2-Nitroaniline	ND		1580	1560		ug/Kg	☼	99	61 - 120	12	15
2-Nitrophenol	ND		1580	1460		ug/Kg	☼	92	37 - 120	8	18
3,3'-Dichlorobenzidine	ND		1580	1240		ug/Kg	☼	78	37 - 126	10	25
3-Nitroaniline	ND		1580	1360		ug/Kg	☼	86	48 - 120	16	19
4,6-Dinitro-2-methylphenol	ND		3170	3290		ug/Kg	☼	104	23 - 149	6	15
4-Bromophenyl phenyl ether	ND		1580	1650		ug/Kg	☼	104	58 - 120	9	15
4-Chloro-3-methylphenol	ND		1580	1580		ug/Kg	☼	100	49 - 125	8	27
4-Chloroaniline	ND		1580	1280		ug/Kg	☼	81	38 - 120	16	22
4-Chlorophenyl phenyl ether	ND		1580	1530		ug/Kg	☼	97	63 - 124	8	16
4-Methylphenol	ND		1580	1530		ug/Kg	☼	97	50 - 120	10	24
4-Nitroaniline	ND		1580	1540		ug/Kg	☼	97	47 - 120	16	24
4-Nitrophenol	ND		3170	3100		ug/Kg	☼	98	31 - 147	16	25
Acenaphthene	ND		1580	1560		ug/Kg	☼	98	60 - 120	11	35
Acenaphthylene	ND		1580	1600		ug/Kg	☼	101	58 - 121	9	18
Acetophenone	ND		1580	1440		ug/Kg	☼	91	47 - 120	10	20
Anthracene	ND		1580	1590		ug/Kg	☼	100	62 - 120	8	15
Atrazine	ND		1580	1640		ug/Kg	☼	103	60 - 150	12	20
Benzaldehyde	ND		1580	1500		ug/Kg	☼	95	10 - 150	15	20
Benzo[a]anthracene	ND		1580	1560		ug/Kg	☼	99	65 - 120	7	15
Benzo[a]pyrene	ND		1580	1620		ug/Kg	☼	102	64 - 120	6	15
Benzo[b]fluoranthene	ND		1580	1580		ug/Kg	☼	100	10 - 150	5	15
Benzo[g,h,i]perylene	ND		1580	1550		ug/Kg	☼	98	45 - 145	7	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 739398

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739319

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[k]fluoranthene	ND		1580	1650		ug/Kg	☼	104	23 - 150	6	22
Bis(2-chloroethoxy)methane	ND		1580	1480		ug/Kg	☼	93	52 - 120	6	17
Bis(2-chloroethyl)ether	ND		1580	1440		ug/Kg	☼	91	45 - 120	12	21
Bis(2-ethylhexyl) phthalate	ND		1580	1560		ug/Kg	☼	98	61 - 133	7	15
Butyl benzyl phthalate	ND		1580	1580		ug/Kg	☼	100	61 - 120	6	16
Caprolactam	ND		1580	1560		ug/Kg	☼	98	37 - 133	8	20
Carbazole	ND		1580	1550		ug/Kg	☼	98	59 - 120	9	20
Chrysene	ND		1580	1560		ug/Kg	☼	98	64 - 120	10	15
Di-n-butyl phthalate	ND		1580	1590		ug/Kg	☼	101	58 - 130	10	15
Di-n-octyl phthalate	ND		1580	1580		ug/Kg	☼	100	57 - 133	9	16
Dibenz(a,h)anthracene	ND		1580	1570		ug/Kg	☼	99	54 - 132	6	15
Dibenzofuran	ND		1580	1550		ug/Kg	☼	98	62 - 120	11	15
Diethyl phthalate	ND		1580	1640		ug/Kg	☼	104	66 - 120	12	15
Dimethyl phthalate	ND		1580	1620		ug/Kg	☼	102	65 - 124	11	15
Fluoranthene	ND		1580	1600		ug/Kg	☼	101	62 - 120	12	15
Fluorene	ND		1580	1600		ug/Kg	☼	101	63 - 120	11	15
Hexachlorobenzene	ND		1580	1590		ug/Kg	☼	100	60 - 120	8	15
Hexachlorobutadiene	ND		1580	1370		ug/Kg	☼	87	45 - 120	11	44
Hexachlorocyclopentadiene	ND		1580	1410		ug/Kg	☼	89	31 - 120	10	49
Hexachloroethane	ND		1580	1260		ug/Kg	☼	79	21 - 120	9	46
Indeno[1,2,3-cd]pyrene	ND		1580	1560		ug/Kg	☼	98	56 - 134	5	15
Isophorone	ND		1580	1540		ug/Kg	☼	97	56 - 120	8	17
N-Nitrosodi-n-propylamine	ND		1580	1480		ug/Kg	☼	93	46 - 120	8	31
N-Nitrosodiphenylamine	ND		1580	1600		ug/Kg	☼	101	20 - 128	7	15
Naphthalene	ND		1580	1390		ug/Kg	☼	88	46 - 120	9	29
Nitrobenzene	ND		1580	1430		ug/Kg	☼	90	49 - 120	9	24
Pentachlorophenol	ND		3170	3240		ug/Kg	☼	102	10 - 136	12	35
Phenanthrene	ND		1580	1600		ug/Kg	☼	101	60 - 122	10	15
Phenol	ND		1580	1450		ug/Kg	☼	91	50 - 120	11	35
Pyrene	ND		1580	1650		ug/Kg	☼	104	61 - 133	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*106*		*26 - 143*
2-Fluorobiphenyl	*96*		*50 - 121*
2-Fluorophenol	*84*		*36 - 120*
Nitrobenzene-d5	*90*		*40 - 121*
p-Terphenyl-d14	*101*		*46 - 143*
Phenol-d5	*94*		*41 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-739360/1-A
Matrix: Solid
Analysis Batch: 739395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
4,4'-DDT	ND		1.7	0.39	ug/Kg		02/20/25 13:01	02/21/25 09:10	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-739360/1-A
Matrix: Solid
Analysis Batch: 739395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.7	0.41	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
alpha-BHC	ND		1.7	0.30	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
cis-Chlordane	ND		1.7	0.83	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
beta-BHC	ND		1.7	0.30	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
delta-BHC	ND		1.7	0.31	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
Dieldrin	ND		1.7	0.40	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
Endosulfan I	ND		1.7	0.32	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
Endosulfan II	ND		1.7	0.30	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
Endrin	ND		1.7	0.33	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
Endrin aldehyde	ND		1.7	0.43	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
Endrin ketone	ND		1.7	0.41	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
gamma-BHC (Lindane)	ND		1.7	0.31	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
trans-Chlordane	ND		1.7	0.53	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
Heptachlor	ND		1.7	0.36	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
Methoxychlor	ND		1.7	0.34	ug/Kg		02/20/25 13:01	02/21/25 09:10	1
Toxaphene	ND		17	9.7	ug/Kg		02/20/25 13:01	02/21/25 09:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*02/20/25 13:01*	*02/21/25 09:10*	*1*
DCB Decachlorobiphenyl	*93*		*45 - 120*	*02/20/25 13:01*	*02/21/25 09:10*	*1*
Tetrachloro-m-xylene	*74*		*30 - 124*	*02/20/25 13:01*	*02/21/25 09:10*	*1*
Tetrachloro-m-xylene	*79*		*30 - 124*	*02/20/25 13:01*	*02/21/25 09:10*	*1*

Lab Sample ID: LCS 480-739360/2-A
Matrix: Solid
Analysis Batch: 739395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	16.8		ug/Kg		101	56 - 120
4,4'-DDE	16.7	16.8		ug/Kg		101	44 - 120
4,4'-DDT	16.7	15.3		ug/Kg		92	38 - 120
Aldrin	16.7	15.7		ug/Kg		94	38 - 120
alpha-BHC	16.7	13.2		ug/Kg		79	39 - 120
cis-Chlordane	16.7	16.5		ug/Kg		99	47 - 120
beta-BHC	16.7	14.8		ug/Kg		89	40 - 120
delta-BHC	16.7	14.0		ug/Kg		84	45 - 120
Dieldrin	16.7	16.3		ug/Kg		98	58 - 120
Endosulfan I	16.7	16.4		ug/Kg		98	49 - 120
Endosulfan II	16.7	15.4		ug/Kg		93	55 - 120
Endosulfan sulfate	16.7	13.8		ug/Kg		83	49 - 124
Endrin	16.7	16.0		ug/Kg		96	58 - 120
Endrin aldehyde	16.7	12.2		ug/Kg		73	37 - 121
Endrin ketone	16.7	13.3		ug/Kg		80	46 - 123
gamma-BHC (Lindane)	16.7	14.1		ug/Kg		85	50 - 120
trans-Chlordane	16.7	16.9		ug/Kg		101	48 - 120
Heptachlor	16.7	15.2		ug/Kg		91	50 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-739360/2-A
Matrix: Solid
Analysis Batch: 739395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide	16.7	16.2		ug/Kg		97	50 - 120
Methoxychlor	16.7	13.9		ug/Kg		83	58 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*87*		*45 - 120*
DCB Decachlorobiphenyl	*90*		*45 - 120*
Tetrachloro-m-xylene	*72*		*30 - 124*
Tetrachloro-m-xylene	*71*		*30 - 124*

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 739395

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739360

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	ND		19.9	22.5		ug/Kg	☼	113	37 - 126
4,4'-DDE	ND		19.9	22.6		ug/Kg	☼	114	34 - 120
4,4'-DDT	ND		19.9	21.0		ug/Kg	☼	106	43 - 123
Aldrin	ND		19.9	21.3		ug/Kg	☼	107	37 - 125
alpha-BHC	ND		19.9	18.3		ug/Kg	☼	92	39 - 120
cis-Chlordane	ND		19.9	22.1		ug/Kg	☼	111	35 - 120
beta-BHC	ND		19.9	20.2		ug/Kg	☼	102	36 - 120
delta-BHC	ND		19.9	20.0		ug/Kg	☼	101	34 - 120
Dieldrin	ND		19.9	21.9		ug/Kg	☼	110	45 - 120
Endosulfan I	ND		19.9	21.9		ug/Kg	☼	110	39 - 120
Endosulfan II	ND		19.9	21.4		ug/Kg	☼	108	34 - 126
Endosulfan sulfate	ND		19.9	19.8		ug/Kg	☼	100	27 - 130
Endrin	ND		19.9	21.7		ug/Kg	☼	110	47 - 121
Endrin aldehyde	ND		19.9	17.9		ug/Kg	☼	90	33 - 123
Endrin ketone	ND		19.9	19.1		ug/Kg	☼	96	43 - 126
gamma-BHC (Lindane)	ND		19.9	19.4		ug/Kg	☼	98	50 - 120
trans-Chlordane	ND		19.9	22.7		ug/Kg	☼	115	31 - 120
Heptachlor	ND		19.9	20.9		ug/Kg	☼	106	42 - 120
Heptachlor epoxide	ND		19.9	22.1		ug/Kg	☼	111	40 - 120
Methoxychlor	ND		19.9	20.4		ug/Kg	☼	103	44 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*93*		*45 - 120*
DCB Decachlorobiphenyl	*101*		*45 - 120*
Tetrachloro-m-xylene	*86*		*30 - 124*
Tetrachloro-m-xylene	*86*		*30 - 124*

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 739395

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739360

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	ND		19.9	22.7		ug/Kg	☼	114	37 - 126	1	21
4,4'-DDE	ND		19.9	22.6		ug/Kg	☼	113	34 - 120	0	18

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 739395

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739360

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDT	ND		19.9	20.9		ug/Kg	☼	105	43 - 123	1	25
Aldrin	ND		19.9	20.1		ug/Kg	☼	101	37 - 125	6	12
alpha-BHC	ND		19.9	18.1		ug/Kg	☼	91	39 - 120	1	15
cis-Chlordane	ND		19.9	22.2		ug/Kg	☼	111	35 - 120	0	23
beta-BHC	ND		19.9	20.2		ug/Kg	☼	101	36 - 120	0	19
delta-BHC	ND		19.9	20.0		ug/Kg	☼	100	34 - 120	0	14
Dieldrin	ND		19.9	22.0		ug/Kg	☼	110	45 - 120	0	12
Endosulfan I	ND		19.9	21.9		ug/Kg	☼	110	39 - 120	0	18
Endosulfan II	ND		19.9	21.6		ug/Kg	☼	108	34 - 126	1	26
Endosulfan sulfate	ND		19.9	20.3		ug/Kg	☼	102	27 - 130	2	35
Endrin	ND		19.9	21.7		ug/Kg	☼	109	47 - 121	0	20
Endrin aldehyde	ND		19.9	18.1		ug/Kg	☼	91	33 - 123	2	47
Endrin ketone	ND		19.9	19.2		ug/Kg	☼	96	43 - 126	1	37
gamma-BHC (Lindane)	ND		19.9	19.1		ug/Kg	☼	96	50 - 120	1	12
trans-Chlordane	ND		19.9	22.7		ug/Kg	☼	114	31 - 120	0	15
Heptachlor	ND		19.9	20.7		ug/Kg	☼	104	42 - 120	1	22
Heptachlor epoxide	ND		19.9	22.4		ug/Kg	☼	113	40 - 120	2	15
Methoxychlor	ND		19.9	20.4		ug/Kg	☼	102	44 - 150	0	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*45 - 120*
DCB Decachlorobiphenyl	*100*		*45 - 120*
Tetrachloro-m-xylene	*85*		*30 - 124*
Tetrachloro-m-xylene	*82*		*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-739107/1-A
Matrix: Solid
Analysis Batch: 739197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg		02/17/25 07:09	02/18/25 12:01	1
PCB-1221	ND		0.25	0.049	mg/Kg		02/17/25 07:09	02/18/25 12:01	1
PCB-1232	ND		0.25	0.049	mg/Kg		02/17/25 07:09	02/18/25 12:01	1
PCB-1242	ND		0.25	0.049	mg/Kg		02/17/25 07:09	02/18/25 12:01	1
PCB-1248	ND		0.25	0.049	mg/Kg		02/17/25 07:09	02/18/25 12:01	1
PCB-1254	ND		0.25	0.12	mg/Kg		02/17/25 07:09	02/18/25 12:01	1
PCB-1260	ND		0.25	0.12	mg/Kg		02/17/25 07:09	02/18/25 12:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*113*		*60 - 154*	*02/17/25 07:09*	*02/18/25 12:01*	*1*
Tetrachloro-m-xylene	*110*		*60 - 154*	*02/17/25 07:09*	*02/18/25 12:01*	*1*
DCB Decachlorobiphenyl	*117*		*65 - 174*	*02/17/25 07:09*	*02/18/25 12:01*	*1*
DCB Decachlorobiphenyl	*117*		*65 - 174*	*02/17/25 07:09*	*02/18/25 12:01*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-739107/2-A
Matrix: Solid
Analysis Batch: 739197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739107

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			2.50	3.73		mg/Kg		149	51 - 185		
PCB-1260			2.50	3.75		mg/Kg		150	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*132*		*60 - 154*
Tetrachloro-m-xylene	*144*		*60 - 154*
DCB Decachlorobiphenyl	*136*		*65 - 174*
DCB Decachlorobiphenyl	*148*		*65 - 174*

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 739197

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739107

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	ND		2.98	4.21		mg/Kg	☼	141	50 - 177		
PCB-1260	ND		2.98	4.42		mg/Kg	☼	148	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*124*		*60 - 154*
Tetrachloro-m-xylene	*132*		*60 - 154*
DCB Decachlorobiphenyl	*134*		*65 - 174*
DCB Decachlorobiphenyl	*138*		*65 - 174*

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 739197

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739107

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		2.70	3.73		mg/Kg	☼	138	50 - 177	12	50
PCB-1260	ND		2.70	3.79		mg/Kg	☼	141	33 - 200	15	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*123*		*60 - 154*
Tetrachloro-m-xylene	*127*		*60 - 154*
DCB Decachlorobiphenyl	*129*		*65 - 174*
DCB Decachlorobiphenyl	*137*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-739257/1-A
Matrix: Solid
Analysis Batch: 739487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.3	ug/Kg		02/19/25 09:29	02/24/25 12:11	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg		02/19/25 09:29	02/24/25 12:11	1
2,4-D	ND		17	11	ug/Kg		02/19/25 09:29	02/24/25 12:11	1
Dichlorprop	ND		17	8.3	ug/Kg		02/19/25 09:29	02/24/25 12:11	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 480-739257/1-A
Matrix: Solid
Analysis Batch: 739487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		17	5.4	ug/Kg		02/19/25 09:29	02/24/25 12:11	1
Picloram	ND		17	7.2	ug/Kg		02/19/25 09:29	02/24/25 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*02/19/25 09:29*	*02/24/25 12:11*	*1*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*02/19/25 09:29*	*02/24/25 12:11*	*1*

Lab Sample ID: LCS 480-739257/2-A
Matrix: Solid
Analysis Batch: 739487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	66.7	48.2		ug/Kg		72	41 - 120
Silvex (2,4,5-TP)	66.7	50.2		ug/Kg		75	39 - 125
2,4-D	66.7	50.3		ug/Kg		75	40 - 120
Dichlorprop	66.7	52.8		ug/Kg		79	34 - 121
Pentachlorophenol	66.7	18.9		ug/Kg		28	10 - 120
Picloram	66.7	47.6		ug/Kg		71	22 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 739487

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739257

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	ND		79.0	49.5		ug/Kg	☼	63	29 - 123
Silvex (2,4,5-TP)	ND		79.0	51.5		ug/Kg	☼	65	22 - 140
2,4-D	ND		79.0	54.3		ug/Kg	☼	69	32 - 115
Dichlorprop	ND		79.0	55.3		ug/Kg	☼	70	28 - 125
Pentachlorophenol	ND		79.0	21.4		ug/Kg	☼	27	10 - 130
Picloram	ND		79.0	49.9		ug/Kg	☼	63	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*67*		*28 - 129*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 739487

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739257

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	ND		77.7	49.0		ug/Kg	☼	63	29 - 123	1	50
Silvex (2,4,5-TP)	ND		77.7	52.2		ug/Kg	☼	67	22 - 140	1	50
2,4-D	ND		77.7	52.1		ug/Kg	☼	67	32 - 115	4	50
Dichlorprop	ND		77.7	52.9		ug/Kg	☼	68	28 - 125	5	50

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 739487

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739257

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pentachlorophenol	ND		77.7	24.2		ug/Kg	☼	31	10 - 130	12	50
Picloram	ND		77.7	50.5		ug/Kg	☼	65	10 - 150	1	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-644982/1-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoropentanoic acid (PFPeA)	ND		0.25	0.063	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorohexanoic acid (PFHxA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoroheptanoic acid (PFHpA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorooctanoic acid (PFOA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorononanoic acid (PFNA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorodecanoic acid (PFDA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoroundecanoic acid (PFUnA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorododecanoic acid (PFDoA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorononanesulfonic acid (PFNS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-644982/1-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.3	0.31	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.3	0.31	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.25	0.063	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.25	0.063	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.50	0.13	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.25	0.063	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.63	0.16	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.1	0.78	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.1	0.78	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.13	0.031	ug/Kg		02/17/25 08:26	02/20/25 12:04	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.25	0.063	ug/Kg		02/17/25 08:26	02/20/25 12:04	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95.5*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C5 PFPeA	*94.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C5 PFHxA	*95.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C4 PFHpA	*96.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C8 PFOA	*83.8*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C9 PFNA	*93.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C6 PFDA	*89.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C7 PFUnA	*82.8*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C2 PFTeDA	*60.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C3 PFBS	*87.7*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C3 PFHxS	*88.1*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C8 PFOS	*94.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C8 PFOSA	*85.9*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
d3-NMeFOSAA	*81.6*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
d5-NEtFOSAA	*82.5*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
M2-4:2 FTS	*89.1*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
M2-6:2 FTS	*89.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
M2-8:2 FTS	*84.0*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
13C3 HFPO-DA	*99.7*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
d7-N-MeFOSE-M	*26.7*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
d9-N-EtFOSE-M	*23.2*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
d5-NEtPFOSA	*58.3*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*
D3-NMeFOSA	*66.4*		*20 - 150*	*02/17/25 08:26*	*02/20/25 12:04*	*1*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-644982/1-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644982

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoDA	73.8		20 - 150	02/17/25 08:26	02/20/25 12:04	1

Lab Sample ID: LCS 240-644982/3-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	6.25	6.85		ug/Kg		110	40 - 150
Perfluoropentanoic acid (PFPeA)	3.13	3.53		ug/Kg		113	40 - 150
Perfluorohexanoic acid (PFHxA)	1.56	1.72		ug/Kg		110	40 - 150
Perfluoroheptanoic acid (PFHpA)	1.56	1.63		ug/Kg		105	40 - 150
Perfluorooctanoic acid (PFOA)	1.56	1.67		ug/Kg		107	40 - 150
Perfluorononanoic acid (PFNA)	1.56	1.62		ug/Kg		103	40 - 150
Perfluorodecanoic acid (PFDA)	1.56	1.60		ug/Kg		102	40 - 150
Perfluoroundecanoic acid (PFUnA)	1.56	1.65		ug/Kg		106	40 - 150
Perfluorododecanoic acid (PFDoA)	1.56	1.67		ug/Kg		107	40 - 150
Perfluorotridecanoic acid (PFTrDA)	1.56	1.64		ug/Kg		105	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	1.56	1.72		ug/Kg		110	40 - 150
Perfluorobutanesulfonic acid (PFBS)	1.39	1.45		ug/Kg		105	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.47	1.60		ug/Kg		109	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.57		ug/Kg		111	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.49	1.60		ug/Kg		107	40 - 150
Perfluorooctanesulfonic acid (PFOS)	1.45	1.47		ug/Kg		101	40 - 150
Perfluorononanesulfonic acid (PFNS)	1.50	1.49		ug/Kg		99	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	1.52	1.41		ug/Kg		93	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	5.86	6.16		ug/Kg		105	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.95	5.88		ug/Kg		99	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.00	6.14		ug/Kg		102	40 - 150
Perfluorooctanesulfonamide (PFOSA)	1.56	1.70		ug/Kg		109	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.56	1.63		ug/Kg		104	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.56	1.74		ug/Kg		111	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.56	1.67		ug/Kg		107	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.56	1.71		ug/Kg		109	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	15.6	15.7		ug/Kg		101	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-644982/3-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	15.6	15.6		ug/Kg		100	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.25	6.83		ug/Kg		109	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.91	6.28		ug/Kg		106	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.13	3.49		ug/Kg		112	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.13	3.36		ug/Kg		107	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.84	5.88		ug/Kg		101	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	5.90	5.82		ug/Kg		99	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.79	2.96		ug/Kg		106	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.81	8.72		ug/Kg		112	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	39.1	39.8		ug/Kg		102	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	39.1	37.5		ug/Kg		96	40 - 150
Perfluorodecanesulfonic acid (PFDS)	1.51	1.54		ug/Kg		102	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.13	3.69		ug/Kg		118	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*95.3*		*20 - 150*
13C5 PFPeA	*95.4*		*20 - 150*
13C5 PFHxA	*95.8*		*20 - 150*
13C4 PFHpA	*99.0*		*20 - 150*
13C8 PFOA	*91.6*		*20 - 150*
13C9 PFNA	*94.2*		*20 - 150*
13C6 PFDA	*94.4*		*20 - 150*
13C7 PFUnA	*92.3*		*20 - 150*
13C2 PFTeDA	*81.4*		*20 - 150*
13C3 PFBS	*90.7*		*20 - 150*
13C3 PFHxS	*90.6*		*20 - 150*
13C8 PFOS	*99.4*		*20 - 150*
13C8 PFOSA	*94.9*		*20 - 150*
d3-NMeFOSAA	*89.5*		*20 - 150*
d5-NEtFOSAA	*88.3*		*20 - 150*
M2-4:2 FTS	*89.6*		*20 - 150*
M2-6:2 FTS	*87.9*		*20 - 150*
M2-8:2 FTS	*84.4*		*20 - 150*
13C3 HFPO-DA	*101*		*20 - 150*
d7-N-MeFOSE-M	*66.2*		*20 - 150*
d9-N-EtFOSE-M	*59.8*		*20 - 150*
d5-NEtPFOSA	*64.2*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-644982/3-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
D3-NMeFOSA	*71.4*		*20 - 150*
13C2-PFDoDA	*85.7*		*20 - 150*

Lab Sample ID: LLCS 240-644982/2-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.587		ug/Kg		117	40 - 150
Perfluoropentanoic acid (PFPeA)	0.250	0.307		ug/Kg		123	40 - 150
Perfluorohexanoic acid (PFHxA)	0.125	0.146		ug/Kg		117	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.125	0.152		ug/Kg		121	40 - 150
Perfluorooctanoic acid (PFOA)	0.125	0.144		ug/Kg		115	40 - 150
Perfluorononanoic acid (PFNA)	0.125	0.142		ug/Kg		113	40 - 150
Perfluorodecanoic acid (PFDA)	0.125	0.137		ug/Kg		110	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.125	0.147		ug/Kg		118	40 - 150
Perfluorododecanoic acid (PFDoA)	0.125	0.146		ug/Kg		117	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.125	0.143		ug/Kg		115	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.125	0.144		ug/Kg		116	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.111	0.126	J	ug/Kg		114	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.118	0.139		ug/Kg		119	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.114	0.143		ug/Kg		126	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.119	0.138		ug/Kg		116	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.116	0.153		ug/Kg		131	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.120	0.124	J	ug/Kg		103	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.121	0.111	J	ug/Kg		92	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.492	J	ug/Kg		105	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.534		ug/Kg		112	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.542		ug/Kg		113	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.125	0.150		ug/Kg		120	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.125	0.154		ug/Kg		123	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.125	0.164		ug/Kg		131	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.125	0.129	J	ug/Kg		103	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.125	0.135		ug/Kg		108	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-644982/2-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.56		ug/Kg		125	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.36		ug/Kg		109	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.500	0.564		ug/Kg		113	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.473	0.542		ug/Kg		115	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.296		ug/Kg		118	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.292		ug/Kg		117	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.467	0.425	J	ug/Kg		91	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.472	0.418	J	ug/Kg		89	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.223	0.253		ug/Kg		113	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.625	0.704		ug/Kg		113	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	3.13	3.32		ug/Kg		106	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	3.13	2.92	J	ug/Kg		94	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.121	0.127	J	ug/Kg		106	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.299		ug/Kg		120	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*95.7*		*20 - 150*
13C5 PFPeA	*95.2*		*20 - 150*
13C5 PFHxA	*93.6*		*20 - 150*
13C4 PFHpA	*93.4*		*20 - 150*
13C8 PFOA	*83.9*		*20 - 150*
13C9 PFNA	*85.1*		*20 - 150*
13C6 PFDA	*83.6*		*20 - 150*
13C7 PFUnA	*79.8*		*20 - 150*
13C2 PFTeDA	*65.5*		*20 - 150*
13C3 PFBS	*89.6*		*20 - 150*
13C3 PFHxS	*84.7*		*20 - 150*
13C8 PFOS	*88.2*		*20 - 150*
13C8 PFOSA	*88.9*		*20 - 150*
d3-NMeFOSAA	*77.5*		*20 - 150*
d5-NEtFOSAA	*77.5*		*20 - 150*
M2-4:2 FTS	*95.0*		*20 - 150*
M2-6:2 FTS	*88.5*		*20 - 150*
M2-8:2 FTS	*75.1*		*20 - 150*
13C3 HFPO-DA	*100*		*20 - 150*
d7-N-MeFOSE-M	*33.7*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-644982/2-A
Matrix: Solid
Analysis Batch: 645517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644982

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
d9-N-EtFOSE-M	*30.5*		*20 - 150*
d5-NEtPFOSA	*56.2*		*20 - 150*
D3-NMeFOSA	*61.6*		*20 - 150*
13C2-PFDoDA	*74.6*		*20 - 150*

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 645247

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	ND		7.41	7.98		ug/Kg	☼	108	40 - 150
Perfluoropentanoic acid (PFPeA)	ND		3.71	3.95		ug/Kg	☼	107	40 - 150
Perfluorohexanoic acid (PFHxA)	ND		1.85	2.12		ug/Kg	☼	114	40 - 150
Perfluoroheptanoic acid (PFHpA)	ND		1.85	1.94		ug/Kg	☼	105	40 - 150
Perfluorooctanoic acid (PFOA)	ND		1.85	2.03		ug/Kg	☼	109	40 - 150
Perfluorononanoic acid (PFNA)	ND		1.85	1.79		ug/Kg	☼	97	40 - 150
Perfluorodecanoic acid (PFDA)	ND		1.85	2.28		ug/Kg	☼	123	40 - 150
Perfluoroundecanoic acid (PFUnA)	ND		1.85	1.98		ug/Kg	☼	107	40 - 150
Perfluorododecanoic acid (PFDoA)	ND		1.85	1.98		ug/Kg	☼	107	40 - 150
Perfluorotridecanoic acid (PFTrDA)	ND		1.85	2.06		ug/Kg	☼	111	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	ND		1.85	2.30		ug/Kg	☼	124	40 - 150
Perfluorobutanesulfonic acid (PFBS)	ND		1.65	1.91		ug/Kg	☼	116	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	ND		1.74	1.98		ug/Kg	☼	114	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	ND		1.69	1.97		ug/Kg	☼	117	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.77	1.85		ug/Kg	☼	104	40 - 150
Perfluorooctanesulfonic acid (PFOS)	ND		1.72	1.88		ug/Kg	☼	109	40 - 150
Perfluorononanesulfonic acid (PFNS)	ND		1.78	2.03		ug/Kg	☼	114	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	ND	F2	1.80	1.21		ug/Kg	☼	67	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.95	7.62		ug/Kg	☼	110	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.06	7.05		ug/Kg	☼	100	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.12	7.40		ug/Kg	☼	104	40 - 150
Perfluorooctanesulfonamide (PFOSA)	ND		1.85	1.98		ug/Kg	☼	107	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.85	2.08		ug/Kg	☼	112	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.85	2.11		ug/Kg	☼	114	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.85	2.15		ug/Kg	☼	116	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 645247

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.85	2.23		ug/Kg	☼	121	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18.5	21.6		ug/Kg	☼	117	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18.5	21.4		ug/Kg	☼	115	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.41	8.14		ug/Kg	☼	110	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.01	7.76		ug/Kg	☼	111	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.71	4.22		ug/Kg	☼	114	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.71	4.82		ug/Kg	☼	130	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		6.92	8.08		ug/Kg	☼	117	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		7.00	6.97		ug/Kg	☼	100	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.31	3.99		ug/Kg	☼	121	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.27	9.27		ug/Kg	☼	100	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		46.3	45.0		ug/Kg	☼	97	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		46.3	44.1		ug/Kg	☼	95	40 - 150
Perfluorodecanesulfonic acid (PFDS)	ND		1.79	1.73		ug/Kg	☼	97	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.71	4.24		ug/Kg	☼	114	40 - 150

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*99.2*		*20 - 150*
13C5 PFPeA	*91.4*		*20 - 150*
13C5 PFHxA	*90.4*		*20 - 150*
13C4 PFHpA	*98.3*		*20 - 150*
13C8 PFOA	*89.1*		*20 - 150*
13C9 PFNA	*102*		*20 - 150*
13C6 PFDA	*92.1*		*20 - 150*
13C7 PFUnA	*89.7*		*20 - 150*
13C2 PFTeDA	*48.3*		*20 - 150*
13C3 PFBS	*89.9*		*20 - 150*
13C3 PFHxS	*89.3*		*20 - 150*
13C8 PFOS	*86.7*		*20 - 150*
13C8 PFOSA	*82.2*		*20 - 150*
d3-NMeFOSAA	*67.0*		*20 - 150*
d5-NEtFOSAA	*75.1*		*20 - 150*
M2-4:2 FTS	*100*		*20 - 150*
M2-6:2 FTS	*105*		*20 - 150*
M2-8:2 FTS	*97.6*		*20 - 150*
13C3 HFPO-DA	*97.3*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 645247

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 644982

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
d7-N-MeFOSE-M	*63.8*		*20 - 150*
d9-N-EtFOSE-M	*58.1*		*20 - 150*
d5-NEtPFOSA	*63.6*		*20 - 150*
D3-NMeFOSA	*72.1*		*20 - 150*
13C2-PFDoDA	*75.1*		*20 - 150*

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 645247

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	ND		7.56	8.14		ug/Kg	☼	108	40 - 150	2	30
Perfluoropentanoic acid (PFPeA)	ND		3.78	4.13		ug/Kg	☼	109	40 - 150	4	30
Perfluorohexanoic acid (PFHxA)	ND		1.89	1.93		ug/Kg	☼	102	40 - 150	10	30
Perfluoroheptanoic acid (PFHpA)	ND		1.89	1.97		ug/Kg	☼	104	40 - 150	1	30
Perfluorooctanoic acid (PFOA)	ND		1.89	2.12		ug/Kg	☼	112	40 - 150	5	30
Perfluorononanoic acid (PFNA)	ND		1.89	1.88		ug/Kg	☼	99	40 - 150	5	30
Perfluorodecanoic acid (PFDA)	ND		1.89	2.34		ug/Kg	☼	124	40 - 150	2	30
Perfluoroundecanoic acid (PFUnA)	ND		1.89	2.01		ug/Kg	☼	106	40 - 150	2	30
Perfluorododecanoic acid (PFDoA)	ND		1.89	2.00		ug/Kg	☼	106	40 - 150	1	30
Perfluorotridecanoic acid (PFTrDA)	ND		1.89	2.22		ug/Kg	☼	118	40 - 150	8	30
Perfluorotetradecanoic acid (PFTeDA)	ND		1.89	2.19		ug/Kg	☼	116	40 - 150	5	30
Perfluorobutanesulfonic acid (PFBS)	ND		1.68	1.95		ug/Kg	☼	116	40 - 150	2	30
Perfluoropentanesulfonic acid (PFPeS)	ND		1.78	1.96		ug/Kg	☼	110	40 - 150	1	30
Perfluorohexanesulfonic acid (PFHxS)	ND		1.72	2.00		ug/Kg	☼	116	40 - 150	2	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.80	1.91		ug/Kg	☼	106	40 - 150	3	30
Perfluorooctanesulfonic acid (PFOS)	ND		1.76	1.88		ug/Kg	☼	107	40 - 150	0	30
Perfluorononanesulfonic acid (PFNS)	ND		1.82	2.15		ug/Kg	☼	118	40 - 150	5	30
Perfluorododecanesulfonic acid (PFDoS)	ND	F2	1.83	1.68	F2	ug/Kg	☼	92	40 - 150	33	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.09	7.55		ug/Kg	☼	106	40 - 150	1	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.20	7.08		ug/Kg	☼	98	40 - 150	0	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.26	7.31		ug/Kg	☼	101	40 - 150	1	30
Perfluorooctanesulfonamide (PFOSA)	ND		1.89	2.07		ug/Kg	☼	110	40 - 150	4	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.89	2.22		ug/Kg	☼	117	40 - 150	6	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.89	2.24		ug/Kg	☼	118	40 - 150	6	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 645247

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 644982

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.89	2.14		ug/Kg	☼	113	40 - 150	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.89	2.38		ug/Kg	☼	126	40 - 150	6	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18.9	21.9		ug/Kg	☼	116	40 - 150	1	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18.9	21.9		ug/Kg	☼	116	40 - 150	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.56	8.39		ug/Kg	☼	111	40 - 150	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.15	8.31		ug/Kg	☼	116	40 - 150	7	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.78	4.39		ug/Kg	☼	116	40 - 150	4	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.78	4.59		ug/Kg	☼	122	40 - 150	5	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		7.06	8.83		ug/Kg	☼	125	40 - 150	9	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		7.14	7.86		ug/Kg	☼	110	40 - 150	12	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.37	3.80		ug/Kg	☼	113	40 - 150	5	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.45	9.94		ug/Kg	☼	105	40 - 150	7	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		47.3	43.9		ug/Kg	☼	93	40 - 150	2	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		47.3	44.7		ug/Kg	☼	95	40 - 150	1	30
Perfluorodecanesulfonic acid (PFDS)	ND		1.82	1.82		ug/Kg	☼	100	40 - 150	5	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.78	4.45		ug/Kg	☼	118	40 - 150	5	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*99.5*		*20 - 150*
13C5 PFPeA	*88.6*		*20 - 150*
13C5 PFHxA	*99.5*		*20 - 150*
13C4 PFHpA	*101*		*20 - 150*
13C8 PFOA	*89.6*		*20 - 150*
13C9 PFNA	*103*		*20 - 150*
13C6 PFDA	*92.6*		*20 - 150*
13C7 PFUnA	*94.2*		*20 - 150*
13C2 PFTeDA	*77.7*		*20 - 150*
13C3 PFBS	*88.7*		*20 - 150*
13C3 PFHxS	*89.7*		*20 - 150*
13C8 PFOS	*88.5*		*20 - 150*
13C8 PFOSA	*80.9*		*20 - 150*
d3-NMeFOSAA	*77.7*		*20 - 150*
d5-NEtFOSAA	*104*		*20 - 150*
M2-4:2 FTS	*94.9*		*20 - 150*
M2-6:2 FTS	*95.5*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 645247

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 644982

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-8:2 FTS	93.9		20 - 150
13C3 HFPO-DA	95.9		20 - 150
d7-N-MeFOSE-M	75.2		20 - 150
d9-N-EtFOSE-M	73.2		20 - 150
d5-NEtPFOSA	65.9		20 - 150
D3-NMeFOSA	73.6		20 - 150
13C2-PFDoDA	88.7		20 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-739002/1-A
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.8	8.4	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Antimony	ND		14.7	0.52	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Arsenic	ND		2.0	0.86	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Barium	ND		0.49	0.14	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Beryllium	ND		0.20	0.039	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Cadmium	ND		0.20	0.069	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Calcium	ND		49.0	26.4	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Chromium	ND		0.49	0.35	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Cobalt	ND		0.49	0.098	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Copper	ND		0.98	0.56	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Iron	ND		9.8	8.3	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Lead	ND		0.98	0.45	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Magnesium	ND		19.6	8.3	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Manganese	ND		0.98	0.27	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Nickel	ND		4.9	0.24	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Potassium	ND		29.4	23.7	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Selenium	ND		3.9	0.78	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Silver	ND		0.59	0.20	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Sodium	ND		137	60.0	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Thallium	ND		5.9	0.74	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Vanadium	ND		0.49	0.13	mg/Kg		02/14/25 12:34	02/17/25 18:20	1
Zinc	ND		2.0	1.0	mg/Kg		02/14/25 12:34	02/17/25 18:20	1

Lab Sample ID: LCSSRM 480-739002/2-A
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739002

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	8479		mg/Kg		110.4	47.4 - 130.2
Antimony	201	68.66		mg/Kg		34.2	0.06 - 100.0
Arsenic	181	135.5		mg/Kg		74.9	66.3 - 97.8
Barium	211	193.8		mg/Kg		91.8	73.9 - 107.1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-739002/2-A
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739002

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	270	233.8		mg/Kg		86.6	73.0 - 104.4
Cadmium	221	179.6		mg/Kg		81.3	70.6 - 101.8
Calcium	4280	3975		mg/Kg		92.9	77.3 - 111.0
Chromium	149	128.5		mg/Kg		86.2	71.8 - 105.4
Cobalt	142	135.3		mg/Kg		95.3	73.2 - 104.2
Copper	264	215.3		mg/Kg		81.6	73.5 - 104.2
Iron	7360	7139		mg/Kg		97.0	55.4 - 130.3
Lead	106	104.2		mg/Kg		98.3	76.1 - 109.4
Magnesium	2170	2050		mg/Kg		94.5	68.7 - 112.0
Manganese	270	263.7		mg/Kg		97.7	73.0 - 107.8
Nickel	117	166.8		mg/Kg		142.5	108.5 - 156.4
Potassium	2340	2306		mg/Kg		98.5	62.8 - 113.7
Selenium	139	106.9		mg/Kg		76.9	70.0 - 107.9
Silver	59.9	51.67		mg/Kg		86.3	72.8 - 110.7
Sodium	306	281.6		mg/Kg		92.0	66.0 - 113.4
Thallium	205	193.9		mg/Kg		94.6	71.7 - 106.8
Vanadium	155	137.1		mg/Kg		88.4	107.7 - 69.0
Zinc	398	341.7		mg/Kg		85.9	68.8 - 104.5

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6910		1290	11100	4	mg/Kg	☼	324	75 - 125
Antimony	ND		126	107.8		mg/Kg	☼	85	75 - 125
Arsenic	ND		254	231.0		mg/Kg	☼	91	75 - 125
Barium	18.0		253	277.0		mg/Kg	☼	102	75 - 125
Beryllium	0.32		125	121.4		mg/Kg	☼	97	75 - 125
Cadmium	ND		126	121.3		mg/Kg	☼	96	75 - 125
Chromium	9.1		126	130.7		mg/Kg	☼	96	75 - 125
Cobalt	3.1		126	126.5		mg/Kg	☼	98	75 - 125
Copper	10.8		126	144.2		mg/Kg	☼	105	75 - 125
Iron	6980		1300	8568	4	mg/Kg	☼	122	75 - 125
Lead	9.4		126	133.5		mg/Kg	☼	98	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	156		126	262.1		mg/Kg	☼	84	75 - 125
Nickel	8.8		127	134.1		mg/Kg	☼	99	75 - 125
Potassium	2680		6320	10500		mg/Kg	☼	124	75 - 125
Selenium	ND		253	215.9		mg/Kg	☼	85	75 - 125
Silver	ND		12.6	13.14		mg/Kg	☼	104	75 - 125
Sodium	209		6320	6677		mg/Kg	☼	102	75 - 125
Thallium	ND		253	251.7		mg/Kg	☼	100	75 - 125
Vanadium	13.4		127	135.4		mg/Kg	☼	96	75 - 125
Zinc	29.7		126	139.9		mg/Kg	☼	87	75 - 125

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 739224

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	101000		6320	104700	4	mg/Kg	☼	63	75 - 125
Magnesium	61700		6320	67020	4	mg/Kg	☼	85	75 - 125

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739002

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	6910		1210	9974	4	mg/Kg	☼	254	75 - 125	11	20
Antimony	ND		118	102.3		mg/Kg	☼	87	75 - 125	5	20
Arsenic	ND		237	216.1		mg/Kg	☼	91	75 - 125	7	20
Barium	18.0		236	257.7		mg/Kg	☼	102	75 - 125	7	20
Beryllium	0.32		117	112.5		mg/Kg	☼	96	75 - 125	8	20
Cadmium	ND		118	114.9		mg/Kg	☼	97	75 - 125	5	20
Chromium	9.1		118	122.1		mg/Kg	☼	96	75 - 125	7	20
Cobalt	3.1		118	118.2		mg/Kg	☼	98	75 - 125	7	20
Copper	10.8		118	137.2		mg/Kg	☼	107	75 - 125	5	20
Iron	6980		1210	7582	4	mg/Kg	☼	49	75 - 125	12	20
Lead	9.4		118	127.3		mg/Kg	☼	100	75 - 125	5	20
Manganese	156		118	269.5		mg/Kg	☼	96	75 - 125	3	20
Nickel	8.8		118	124.8		mg/Kg	☼	98	75 - 125	7	20
Potassium	2680		5900	9775		mg/Kg	☼	120	75 - 125	7	20
Selenium	ND		236	202.8		mg/Kg	☼	86	75 - 125	6	20
Silver	ND		11.8	12.41		mg/Kg	☼	105	75 - 125	6	20
Sodium	209		5900	6360		mg/Kg	☼	104	75 - 125	5	20
Thallium	ND		236	237.1		mg/Kg	☼	100	75 - 125	6	20
Vanadium	13.4		118	127.3		mg/Kg	☼	96	75 - 125	6	20
Zinc	29.7		118	129.2		mg/Kg	☼	84	75 - 125	8	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 739224

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 739002

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	101000		5900	109900	4	mg/Kg	☼	155	75 - 125	5	20
Magnesium	61700		5900	69540	4	mg/Kg	☼	133	75 - 125	4	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-738981/1-A
Matrix: Solid
Analysis Batch: 739060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0045	mg/Kg		02/14/25 10:25	02/14/25 12:47	1

Lab Sample ID: LCSSRM 480-738981/2-A ^10
Matrix: Solid
Analysis Batch: 739060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738981

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	20.92		mg/Kg		87.2	55.8 - 109.6

Lab Sample ID: 480-227331-2 MS
Matrix: Solid
Analysis Batch: 739060

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 738981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.065		0.419	0.413		mg/Kg	☼	83	80 - 120

Lab Sample ID: 480-227331-2 MSD
Matrix: Solid
Analysis Batch: 739060

Client Sample ID: TP-33 5-9
Prep Type: Total/NA
Prep Batch: 738981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.065		0.421	0.414		mg/Kg	☼	83	80 - 120	0	20

GC/MS VOA

Prep Batch: 738931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-2	TP-33 5-9	Total/NA	Solid	5035A_L	
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	5035A_L	
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	5035A_L	
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	5035A_L	
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	5035A_L	
480-227331-7	Blind duplicate-1	Total/NA	Solid	5035A_L	
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	5035A_L	
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	5035A_L	
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	5035A_L	
MB 480-738931/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-738931/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	5035A_L	
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	5035A_L	

Prep Batch: 738936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	5035A_L	
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	5035A_L	
MB 480-738936/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-738936/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-738936/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 738942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-2	TP-33 5-9	Total/NA	Solid	8260C	738931
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	8260C	738931
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	8260C	738931
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	8260C	738931
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	8260C	738931
480-227331-7	Blind duplicate-1	Total/NA	Solid	8260C	738931
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	8260C	738931
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	8260C	738931
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	8260C	738931
MB 480-738931/3-A	Method Blank	Total/NA	Solid	8260C	738931
LCS 480-738931/1-A	Lab Control Sample	Total/NA	Solid	8260C	738931
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	8260C	738931
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	8260C	738931

Analysis Batch: 739010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	8260C	738936
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	8260C	738936
MB 480-738936/3-A	Method Blank	Total/NA	Solid	8260C	738936
LCS 480-738936/1-A	Lab Control Sample	Total/NA	Solid	8260C	738936
LCSD 480-738936/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	738936

GC/MS Semi VOA

Prep Batch: 739319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Prep Batch: 739319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-2	TP-33 5-9	Total/NA	Solid	3550C	
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	3550C	
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	3550C	
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	3550C	
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	3550C	
480-227331-7	Blind duplicate-1	Total/NA	Solid	3550C	
480-227331-7 - DL	Blind duplicate-1	Total/NA	Solid	3550C	
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	3550C	
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	3550C	
480-227331-10	TP-34 6-8 Ft	Total/NA	Solid	3550C	
480-227331-11	TP-34 13-15 Ft	Total/NA	Solid	3550C	
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	3550C	
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	3550C	
480-227331-14	TP-31 7-8 Ft	Total/NA	Solid	3550C	
480-227331-15	TP-31 10-11 Ft	Total/NA	Solid	3550C	
MB 480-739319/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739319/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	3550C	
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	3550C	

Analysis Batch: 739398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	8270D	739319
480-227331-2	TP-33 5-9	Total/NA	Solid	8270D	739319
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	8270D	739319
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	8270D	739319
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	8270D	739319
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	8270D	739319
480-227331-7	Blind duplicate-1	Total/NA	Solid	8270D	739319
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	8270D	739319
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	8270D	739319
480-227331-10	TP-34 6-8 Ft	Total/NA	Solid	8270D	739319
480-227331-11	TP-34 13-15 Ft	Total/NA	Solid	8270D	739319
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	8270D	739319
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	8270D	739319
480-227331-14	TP-31 7-8 Ft	Total/NA	Solid	8270D	739319
MB 480-739319/1-A	Method Blank	Total/NA	Solid	8270D	739319
LCS 480-739319/2-A	Lab Control Sample	Total/NA	Solid	8270D	739319
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	8270D	739319
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	8270D	739319

Analysis Batch: 739475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-7 - DL	Blind duplicate-1	Total/NA	Solid	8270D	739319
480-227331-15	TP-31 10-11 Ft	Total/NA	Solid	8270D	739319

GC Semi VOA

Prep Batch: 739107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 739107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-2	TP-33 5-9	Total/NA	Solid	3550C	
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	3550C	
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	3550C	
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	3550C	
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	3550C	
480-227331-7	Blind duplicate-1	Total/NA	Solid	3550C	
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	3550C	
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	3550C	
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	3550C	
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	3550C	
MB 480-739107/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739107/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	3550C	
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	3550C	

Analysis Batch: 739197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	8082A	739107
480-227331-2	TP-33 5-9	Total/NA	Solid	8082A	739107
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	8082A	739107
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	8082A	739107
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	8082A	739107
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	8082A	739107
480-227331-7	Blind duplicate-1	Total/NA	Solid	8082A	739107
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	8082A	739107
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	8082A	739107
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	8082A	739107
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	8082A	739107
MB 480-739107/1-A	Method Blank	Total/NA	Solid	8082A	739107
LCS 480-739107/2-A	Lab Control Sample	Total/NA	Solid	8082A	739107
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	8082A	739107
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	8082A	739107

Prep Batch: 739257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	8151A	
480-227331-2	TP-33 5-9	Total/NA	Solid	8151A	
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	8151A	
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	8151A	
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	8151A	
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	8151A	
480-227331-7	Blind duplicate-1	Total/NA	Solid	8151A	
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	8151A	
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	8151A	
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	8151A	
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	8151A	
MB 480-739257/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-739257/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	8151A	
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	8151A	

GC Semi VOA

Prep Batch: 739360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	3550C	
480-227331-2	TP-33 5-9	Total/NA	Solid	3550C	
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	3550C	
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	3550C	
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	3550C	
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	3550C	
480-227331-7	Blind duplicate-1	Total/NA	Solid	3550C	
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	3550C	
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	3550C	
480-227331-10	TP-34 6-8 Ft	Total/NA	Solid	3550C	
480-227331-11	TP-34 13-15 Ft	Total/NA	Solid	3550C	
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	3550C	
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	3550C	
480-227331-14	TP-31 7-8 Ft	Total/NA	Solid	3550C	
480-227331-15	TP-31 10-11 Ft	Total/NA	Solid	3550C	
MB 480-739360/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739360/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	3550C	
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	3550C	

Analysis Batch: 739395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	8081B	739360
480-227331-2	TP-33 5-9	Total/NA	Solid	8081B	739360
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	8081B	739360
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	8081B	739360
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	8081B	739360
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	8081B	739360
480-227331-7	Blind duplicate-1	Total/NA	Solid	8081B	739360
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	8081B	739360
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	8081B	739360
480-227331-10	TP-34 6-8 Ft	Total/NA	Solid	8081B	739360
480-227331-11	TP-34 13-15 Ft	Total/NA	Solid	8081B	739360
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	8081B	739360
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	8081B	739360
480-227331-14	TP-31 7-8 Ft	Total/NA	Solid	8081B	739360
480-227331-15	TP-31 10-11 Ft	Total/NA	Solid	8081B	739360
MB 480-739360/1-A	Method Blank	Total/NA	Solid	8081B	739360
LCS 480-739360/2-A	Lab Control Sample	Total/NA	Solid	8081B	739360
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	8081B	739360
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	8081B	739360

Analysis Batch: 739487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	8151A	739257
480-227331-2	TP-33 5-9	Total/NA	Solid	8151A	739257
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	8151A	739257
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	8151A	739257
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	8151A	739257
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	8151A	739257
480-227331-7	Blind duplicate-1	Total/NA	Solid	8151A	739257

GC Semi VOA (Continued)

Analysis Batch: 739487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	8151A	739257
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	8151A	739257
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	8151A	739257
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	8151A	739257
MB 480-739257/1-A	Method Blank	Total/NA	Solid	8151A	739257
LCS 480-739257/2-A	Lab Control Sample	Total/NA	Solid	8151A	739257
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	8151A	739257
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	8151A	739257

LCMS

Prep Batch: 644982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	1633 Shake	
480-227331-2	TP-33 5-9	Total/NA	Solid	1633 Shake	
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	1633 Shake	
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	1633 Shake	
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	1633 Shake	
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	1633 Shake	
480-227331-7	Blind duplicate-1	Total/NA	Solid	1633 Shake	
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	1633 Shake	
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	1633 Shake	
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	1633 Shake	
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	1633 Shake	
MB 240-644982/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-644982/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-644982/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	1633 Shake	
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	1633 Shake	

Analysis Batch: 645247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	1633	644982
480-227331-2	TP-33 5-9	Total/NA	Solid	1633	644982
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	1633	644982
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	1633	644982
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	1633	644982
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	1633	644982
480-227331-7	Blind duplicate-1	Total/NA	Solid	1633	644982
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	1633	644982
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	1633	644982
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	1633	644982
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	1633	644982
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	1633	644982
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	1633	644982

Analysis Batch: 645517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-644982/1-A	Method Blank	Total/NA	Solid	1633	644982
LCS 240-644982/3-A	Lab Control Sample	Total/NA	Solid	1633	644982
LLCS 240-644982/2-A	Lab Control Sample	Total/NA	Solid	1633	644982

Metals

Prep Batch: 738981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	7471B	
480-227331-2	TP-33 5-9	Total/NA	Solid	7471B	
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	7471B	
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	7471B	
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	7471B	
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	7471B	
480-227331-7	Blind duplicate-1	Total/NA	Solid	7471B	
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	7471B	
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	7471B	
480-227331-10	TP-34 6-8 Ft	Total/NA	Solid	7471B	
480-227331-11	TP-34 13-15 Ft	Total/NA	Solid	7471B	
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	7471B	
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	7471B	
480-227331-14	TP-31 7-8 Ft	Total/NA	Solid	7471B	
480-227331-15	TP-31 10-11 Ft	Total/NA	Solid	7471B	
MB 480-738981/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-738981/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	7471B	
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	7471B	

Prep Batch: 739002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	3050B	
480-227331-2	TP-33 5-9	Total/NA	Solid	3050B	
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	3050B	
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	3050B	
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	3050B	
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	3050B	
480-227331-7	Blind duplicate-1	Total/NA	Solid	3050B	
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	3050B	
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	3050B	
480-227331-10	TP-34 6-8 Ft	Total/NA	Solid	3050B	
480-227331-11	TP-34 13-15 Ft	Total/NA	Solid	3050B	
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	3050B	
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	3050B	
480-227331-14	TP-31 7-8 Ft	Total/NA	Solid	3050B	
480-227331-15	TP-31 10-11 Ft	Total/NA	Solid	3050B	
MB 480-739002/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-739002/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	3050B	
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	3050B	

Analysis Batch: 739060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	7471B	738981
480-227331-2	TP-33 5-9	Total/NA	Solid	7471B	738981
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	7471B	738981
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	7471B	738981
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	7471B	738981
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	7471B	738981
480-227331-7	Blind duplicate-1	Total/NA	Solid	7471B	738981

Metals (Continued)

Analysis Batch: 739060 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	7471B	738981
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	7471B	738981
480-227331-10	TP-34 6-8 Ft	Total/NA	Solid	7471B	738981
480-227331-11	TP-34 13-15 Ft	Total/NA	Solid	7471B	738981
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	7471B	738981
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	7471B	738981
480-227331-14	TP-31 7-8 Ft	Total/NA	Solid	7471B	738981
480-227331-15	TP-31 10-11 Ft	Total/NA	Solid	7471B	738981
MB 480-738981/1-A	Method Blank	Total/NA	Solid	7471B	738981
LCSSRM 480-738981/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	738981
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	7471B	738981
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	7471B	738981

Analysis Batch: 739173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	6010C	739002
480-227331-2	TP-33 5-9	Total/NA	Solid	6010C	739002
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	6010C	739002
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	6010C	739002
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	6010C	739002
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	6010C	739002
480-227331-7	Blind duplicate-1	Total/NA	Solid	6010C	739002
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	6010C	739002
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	6010C	739002
480-227331-10	TP-34 6-8 Ft	Total/NA	Solid	6010C	739002
480-227331-11	TP-34 13-15 Ft	Total/NA	Solid	6010C	739002
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	6010C	739002
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	6010C	739002
480-227331-14	TP-31 7-8 Ft	Total/NA	Solid	6010C	739002
480-227331-15	TP-31 10-11 Ft	Total/NA	Solid	6010C	739002
MB 480-739002/1-A	Method Blank	Total/NA	Solid	6010C	739002
LCSSRM 480-739002/2-A	Lab Control Sample	Total/NA	Solid	6010C	739002
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	6010C	739002
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	6010C	739002

Analysis Batch: 739224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-2	TP-33 5-9	Total/NA	Solid	6010C	739002
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	6010C	739002
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	6010C	739002
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	6010C	739002
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	6010C	739002
480-227331-7	Blind duplicate-1	Total/NA	Solid	6010C	739002
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	6010C	739002
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	6010C	739002
480-227331-10	TP-34 6-8 Ft	Total/NA	Solid	6010C	739002
480-227331-11	TP-34 13-15 Ft	Total/NA	Solid	6010C	739002
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	6010C	739002
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	6010C	739002
480-227331-14	TP-31 7-8 Ft	Total/NA	Solid	6010C	739002
480-227331-15	TP-31 10-11 Ft	Total/NA	Solid	6010C	739002

Metals (Continued)

Analysis Batch: 739224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-15	TP-31 10-11 Ft	Total/NA	Solid	6010C	739002
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	6010C	739002
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	6010C	739002

General Chemistry

Analysis Batch: 738960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227331-1	TP-33 1-5 Ft	Total/NA	Solid	Moisture	
480-227331-2	TP-33 5-9	Total/NA	Solid	Moisture	
480-227331-3	TP-33 10-11 Ft	Total/NA	Solid	Moisture	
480-227331-4	MW-2 0.5-3.5 Ft	Total/NA	Solid	Moisture	
480-227331-5	MW-2 5-8 Ft	Total/NA	Solid	Moisture	
480-227331-6	MW-2 12-15 Ft	Total/NA	Solid	Moisture	
480-227331-7	Blind duplicate-1	Total/NA	Solid	Moisture	
480-227331-8	TP-34 0-4 Ft	Total/NA	Solid	Moisture	
480-227331-9	TP-34 5-6 Ft	Total/NA	Solid	Moisture	
480-227331-10	TP-34 6-8 Ft	Total/NA	Solid	Moisture	
480-227331-11	TP-34 13-15 Ft	Total/NA	Solid	Moisture	
480-227331-12	TP-31 2-4 Ft	Total/NA	Solid	Moisture	
480-227331-13	TP-32 2-3 Ft	Total/NA	Solid	Moisture	
480-227331-14	TP-31 7-8 Ft	Total/NA	Solid	Moisture	
480-227331-15	TP-31 10-11 Ft	Total/NA	Solid	Moisture	
480-227331-2 MS	TP-33 5-9	Total/NA	Solid	Moisture	
480-227331-2 MSD	TP-33 5-9	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-33 1-5 Ft
Lab Sample ID: 480-227331-1
Date Collected: 02/12/25 09:00
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: TP-33 1-5 Ft
Lab Sample ID: 480-227331-1
Date Collected: 02/12/25 09:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738936	ZN	EET BUF	02/13/25 13:48
Total/NA	Analysis	8260C		1	739010	CDC	EET BUF	02/14/25 14:46
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		5	739398	JMM	EET BUF	02/21/25 14:33
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		10	739395	JLS	EET BUF	02/21/25 10:48
Total/NA	Prep	3550C			739107	DP	EET BUF	02/17/25 07:09
Total/NA	Analysis	8082A		1	739197	W1T	EET BUF	02/18/25 14:46
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 13:41
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645247	MRL	EET CLE	02/18/25 19:11
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 18:30
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 12:50

Client Sample ID: TP-33 5-9
Lab Sample ID: 480-227331-2
Date Collected: 02/12/25 09:30
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: TP-33 5-9
Lab Sample ID: 480-227331-2
Date Collected: 02/12/25 09:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738931	ZN	EET BUF	02/13/25 13:23
Total/NA	Analysis	8260C		1	738942	LCH	EET BUF	02/13/25 18:48
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		1	739398	JMM	EET BUF	02/21/25 13:57
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		1	739395	JLS	EET BUF	02/21/25 10:29
Total/NA	Prep	3550C			739107	DP	EET BUF	02/17/25 07:09
Total/NA	Analysis	8082A		1	739197	W1T	EET BUF	02/18/25 13:15

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Project/Site: North Aud Block

Job ID: 480-227331-1

Client Sample ID: TP-33 5-9

Lab Sample ID: 480-227331-2
Date Collected: 02/12/25 09:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 13:23
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645247	MRL	EET CLE	02/18/25 19:27
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 18:32
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		5	739224	BMB	EET BUF	02/18/25 15:14
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 12:51

Client Sample ID: TP-33 10-11 Ft

Lab Sample ID: 480-227331-3
Date Collected: 02/12/25 10:00
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: TP-33 10-11 Ft

Lab Sample ID: 480-227331-3
Date Collected: 02/12/25 10:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738931	ZN	EET BUF	02/13/25 13:23
Total/NA	Analysis	8260C		1	738942	LCH	EET BUF	02/13/25 20:36
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		1	739398	JMM	EET BUF	02/21/25 15:08
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		1	739395	JLS	EET BUF	02/21/25 11:08
Total/NA	Prep	3550C			739107	DP	EET BUF	02/17/25 07:09
Total/NA	Analysis	8082A		1	739197	W1T	EET BUF	02/18/25 15:05
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 14:00
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645247	MRL	EET CLE	02/18/25 20:17
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 18:41
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 12:56

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: MW-2 0.5-3.5 Ft
Lab Sample ID: 480-227331-4
Date Collected: 02/12/25 11:00
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: MW-2 0.5-3.5 Ft
Lab Sample ID: 480-227331-4
Date Collected: 02/12/25 11:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738931	ZN	EET BUF	02/13/25 13:23
Total/NA	Analysis	8260C		1	738942	LCH	EET BUF	02/13/25 21:02
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		1	739398	JMM	EET BUF	02/21/25 15:36
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		5	739395	JLS	EET BUF	02/21/25 11:27
Total/NA	Prep	3550C			739107	DP	EET BUF	02/17/25 07:09
Total/NA	Analysis	8082A		1	739197	W1T	EET BUF	02/18/25 15:23
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 14:18
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645247	MRL	EET CLE	02/18/25 20:34
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 18:43
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 12:57

Client Sample ID: MW-2 5-8 Ft
Lab Sample ID: 480-227331-5
Date Collected: 02/12/25 11:15
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: MW-2 5-8 Ft
Lab Sample ID: 480-227331-5
Date Collected: 02/12/25 11:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738931	ZN	EET BUF	02/13/25 13:23
Total/NA	Analysis	8260C		1	738942	LCH	EET BUF	02/13/25 21:29
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		1	739398	JMM	EET BUF	02/21/25 16:04
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		1	739395	JLS	EET BUF	02/21/25 11:47
Total/NA	Prep	3550C			739107	DP	EET BUF	02/17/25 07:09
Total/NA	Analysis	8082A		1	739197	W1T	EET BUF	02/18/25 15:42

Client Sample ID: MW-2 5-8 Ft
Lab Sample ID: 480-227331-5
Date Collected: 02/12/25 11:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 14:37
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645247	MRL	EET CLE	02/18/25 20:51
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 18:51
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739224	BMB	EET BUF	02/18/25 15:23
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		5	739224	BMB	EET BUF	02/18/25 15:50
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 12:59

Client Sample ID: MW-2 12-15 Ft
Lab Sample ID: 480-227331-6
Date Collected: 02/12/25 11:30
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: MW-2 12-15 Ft
Lab Sample ID: 480-227331-6
Date Collected: 02/12/25 11:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738931	ZN	EET BUF	02/13/25 13:23
Total/NA	Analysis	8260C		1	738942	LCH	EET BUF	02/13/25 21:56
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		1	739398	JMM	EET BUF	02/21/25 16:57
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		1	739395	JLS	EET BUF	02/21/25 12:07
Total/NA	Prep	3550C			739107	DP	EET BUF	02/17/25 07:09
Total/NA	Analysis	8082A		1	739197	W1T	EET BUF	02/18/25 16:00
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 14:56
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645247	MRL	EET CLE	02/18/25 21:07
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 18:53
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739224	BMB	EET BUF	02/18/25 15:25
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		5	739224	BMB	EET BUF	02/18/25 15:52
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 13:03

Client Sample ID: Blind duplicate-1
Lab Sample ID: 480-227331-7
Date Collected: 02/12/25 09:15
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: Blind duplicate-1
Lab Sample ID: 480-227331-7
Date Collected: 02/12/25 09:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738931	ZN	EET BUF	02/13/25 13:23
Total/NA	Analysis	8260C		1	738942	LCH	EET BUF	02/13/25 22:23
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		1	739398	JMM	EET BUF	02/21/25 17:25
Total/NA	Prep	3550C	DL		739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D	DL	5	739475	JMM	EET BUF	02/24/25 14:07
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		10	739395	JLS	EET BUF	02/21/25 12:26
Total/NA	Prep	3550C			739107	DP	EET BUF	02/17/25 07:09
Total/NA	Analysis	8082A		1	739197	W1T	EET BUF	02/18/25 16:18
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 15:33
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645247	MRL	EET CLE	02/18/25 21:24
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 18:55
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739224	BMB	EET BUF	02/18/25 15:27
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 13:04

Client Sample ID: TP-34 0-4 Ft
Lab Sample ID: 480-227331-8
Date Collected: 02/12/25 12:30
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: TP-34 0-4 Ft
Lab Sample ID: 480-227331-8
Date Collected: 02/12/25 12:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738931	ZN	EET BUF	02/13/25 13:23
Total/NA	Analysis	8260C		1	738942	LCH	EET BUF	02/13/25 22:50
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		1	739398	JMM	EET BUF	02/21/25 17:51

Client Sample ID: TP-34 0-4 Ft
Lab Sample ID: 480-227331-8

Date Collected: 02/12/25 12:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		20	739395	JLS	EET BUF	02/21/25 12:45
Total/NA	Prep	3550C			739107	DP	EET BUF	02/17/25 07:09
Total/NA	Analysis	8082A		1	739197	W1T	EET BUF	02/18/25 16:37
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 15:51
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645247	MRL	EET CLE	02/18/25 21:41
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 18:57
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739224	BMB	EET BUF	02/18/25 15:29
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 13:05

Client Sample ID: TP-34 5-6 Ft
Lab Sample ID: 480-227331-9

Date Collected: 02/12/25 12:40
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: TP-34 5-6 Ft
Lab Sample ID: 480-227331-9

Date Collected: 02/12/25 12:40
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738931	ZN	EET BUF	02/13/25 13:23
Total/NA	Analysis	8260C		1	738942	LCH	EET BUF	02/13/25 23:17
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		5	739398	JMM	EET BUF	02/21/25 18:34
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		10	739395	JLS	EET BUF	02/21/25 13:05
Total/NA	Prep	3550C			739107	DP	EET BUF	02/17/25 07:09
Total/NA	Analysis	8082A		1	739197	W1T	EET BUF	02/18/25 16:55
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 16:10
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645247	MRL	EET CLE	02/18/25 22:31
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 18:59
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739224	BMB	EET BUF	02/18/25 15:37
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		5	739060	ESB	EET BUF	02/14/25 15:23

Client Sample ID: TP-34 6-8 Ft
Lab Sample ID: 480-227331-10
Date Collected: 02/12/25 12:45
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: TP-34 6-8 Ft
Lab Sample ID: 480-227331-10
Date Collected: 02/12/25 12:45
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		1	739398	JMM	EET BUF	02/21/25 19:02
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		1	739395	JLS	EET BUF	02/21/25 13:25
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 19:00
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739224	BMB	EET BUF	02/18/25 15:38
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 13:09

Client Sample ID: TP-34 13-15 Ft
Lab Sample ID: 480-227331-11
Date Collected: 02/12/25 13:00
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: TP-34 13-15 Ft
Lab Sample ID: 480-227331-11
Date Collected: 02/12/25 13:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		1	739398	JMM	EET BUF	02/21/25 19:28
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		1	739395	JLS	EET BUF	02/21/25 13:44
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 19:02
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739224	BMB	EET BUF	02/18/25 15:40
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 13:11

Client Sample ID: TP-31 2-4 Ft
Lab Sample ID: 480-227331-12
Date Collected: 02/12/25 15:00
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: TP-31 2-4 Ft
Lab Sample ID: 480-227331-12
Date Collected: 02/12/25 15:00
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738931	ZN	EET BUF	02/13/25 13:23
Total/NA	Analysis	8260C		1	738942	LCH	EET BUF	02/13/25 23:44
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		5	739398	JMM	EET BUF	02/21/25 19:54
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		10	739395	JLS	EET BUF	02/21/25 14:04
Total/NA	Prep	3550C			739107	DP	EET BUF	02/17/25 07:09
Total/NA	Analysis	8082A		1	739197	W1T	EET BUF	02/18/25 17:13
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 16:28
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645247	MRL	EET CLE	02/18/25 22:47
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 19:04
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739224	BMB	EET BUF	02/18/25 15:42
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 13:12

Client Sample ID: TP-32 2-3 Ft
Lab Sample ID: 480-227331-13
Date Collected: 02/12/25 14:35
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: TP-32 2-3 Ft
Lab Sample ID: 480-227331-13
Date Collected: 02/12/25 14:35
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			738936	ZN	EET BUF	02/13/25 13:48
Total/NA	Analysis	8260C		1	739010	CDC	EET BUF	02/14/25 15:09
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		5	739398	JMM	EET BUF	02/21/25 20:35
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		10	739395	JLS	EET BUF	02/21/25 14:23

Client Sample ID: TP-32 2-3 Ft
Lab Sample ID: 480-227331-13
Date Collected: 02/12/25 14:35
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739107	DP	EET BUF	02/17/25 07:09
Total/NA	Analysis	8082A		1	739197	W1T	EET BUF	02/18/25 17:32
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 16:47
Total/NA	Prep	1633 Shake			644982	KML	EET CLE	02/17/25 08:26
Total/NA	Analysis	1633		1	645247	MRL	EET CLE	02/18/25 23:04
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 19:06
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739224	BMB	EET BUF	02/18/25 15:44
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		5	739060	ESB	EET BUF	02/14/25 15:24

Client Sample ID: TP-31 7-8 Ft
Lab Sample ID: 480-227331-14
Date Collected: 02/12/25 14:15
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Client Sample ID: TP-31 7-8 Ft
Lab Sample ID: 480-227331-14
Date Collected: 02/12/25 14:15
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		1	739398	JMM	EET BUF	02/21/25 21:01
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		1	739395	JLS	EET BUF	02/21/25 14:43
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 19:14
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739224	BMB	EET BUF	02/18/25 15:46
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 13:15

Client Sample ID: TP-31 10-11 Ft
Lab Sample ID: 480-227331-15
Date Collected: 02/12/25 14:30
Matrix: Solid
Date Received: 02/12/25 16:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	738960	JMM	EET BUF	02/13/25 15:54

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Client Sample ID: TP-31 10-11 Ft
Lab Sample ID: 480-227331-15

Date Collected: 02/12/25 14:30
Matrix: Solid
Date Received: 02/12/25 16:06
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739319	VXF	EET BUF	02/20/25 06:53
Total/NA	Analysis	8270D		1	739475	JMM	EET BUF	02/24/25 14:31
Total/NA	Prep	3550C			739360	VXF	EET BUF	02/20/25 13:01
Total/NA	Analysis	8081B		1	739395	JLS	EET BUF	02/21/25 15:02
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 19:16
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		1	739224	BMB	EET BUF	02/18/25 15:48
Total/NA	Prep	3050B			739002	ET	EET BUF	02/14/25 12:34
Total/NA	Analysis	6010C		5	739224	BMB	EET BUF	02/18/25 15:59
Total/NA	Prep	7471B			738981	ESB	EET BUF	02/14/25 10:25
Total/NA	Analysis	7471B		1	739060	ESB	EET BUF	02/14/25 13:16

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8151A	8151A	Solid	Picloram
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Method Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
8151A	Herbicides (GC)	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227331-1	TP-33 1-5 Ft	Solid	02/12/25 09:00	02/12/25 16:06
480-227331-2	TP-33 5-9	Solid	02/12/25 09:30	02/12/25 16:06
480-227331-3	TP-33 10-11 Ft	Solid	02/12/25 10:00	02/12/25 16:06
480-227331-4	MW-2 0.5-3.5 Ft	Solid	02/12/25 11:00	02/12/25 16:06
480-227331-5	MW-2 5-8 Ft	Solid	02/12/25 11:15	02/12/25 16:06
480-227331-6	MW-2 12-15 Ft	Solid	02/12/25 11:30	02/12/25 16:06
480-227331-7	Blind duplicate-1	Solid	02/12/25 09:15	02/12/25 16:06
480-227331-8	TP-34 0-4 Ft	Solid	02/12/25 12:30	02/12/25 16:06
480-227331-9	TP-34 5-6 Ft	Solid	02/12/25 12:40	02/12/25 16:06
480-227331-10	TP-34 6-8 Ft	Solid	02/12/25 12:45	02/12/25 16:06
480-227331-11	TP-34 13-15 Ft	Solid	02/12/25 13:00	02/12/25 16:06
480-227331-12	TP-31 2-4 Ft	Solid	02/12/25 15:00	02/12/25 16:06
480-227331-13	TP-32 2-3 Ft	Solid	02/12/25 14:35	02/12/25 16:06
480-227331-14	TP-31 7-8 Ft	Solid	02/12/25 14:15	02/12/25 16:06
480-227331-15	TP-31 10-11 Ft	Solid	02/12/25 14:30	02/12/25 16:06

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Nick Sarreci	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-202116-41517.4
Client Contact: Bryan Mayback	Phone: 716-713-3437	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 4 of 9
Company: Roux Environmental Engineering and Geology DPC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: Standard			
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested 4375.0002.Rou			
Email: bmayback@rouxinc.com	WO #:			
Project Name: North Aud Block - soil	Project #: 48028442			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	1633 - 1633 Standard List of 40	8082A, 8151A	6010C, 7471B	8081B, 8270D	TCL SVOCs + TICs	TAL Metals	Pesticides	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N	N					
TP-33 1-5 Ft	2/12/25	9:00	G	Solid			X	X	X	X	X					encore1
TP-33 5-6		9:30		Solid	X	X	X	X	X	X	X					MS/MSD
TP-33 10-11 Ft		10:0		Solid			X	X	X	X	X					encore2
MW-2 0.5-3.5 Ft		11:0		Solid			X	X	X	X	X					
MW-2 5-9 Ft		11:15		Solid			X	X	X	X	X					
MW-2 12-15 Ft		11:30		Solid			X	X	X	X	X					
Blind Duplicate-1		9:15		Solid			X	X	X	X	X					
[redacted] TP-34 0-4 Ft		1235		Solid			X	X	X	X	X					
TP-34 5-6 Ft		1240		Solid			X	X	X	X	X					
TP-34 6-9 Ft		1245		Solid								X	X	X		
TP-34 13-15 Ft		1300		Solid								X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if sam
☐ Return To Client ☐ Disposal By Lab

Deliverable Requested: I, II, III, IV, Other (specify) CLP B, MS Pest ELAS

Special Instructions/QC Requirements:

480-227331 Chain of Custody

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 2/12/25 1600	Company: Roux	Received by:	Date/Time: 2/13/25 1606	Company: ETA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.6 2.9 3.1 ICE IR# SC

Ver: 10/10/2024

Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Nick Surak	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-202116-41517.5
Client Contact: Bryan Mayback	Phone: 716-713-3437	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 5 of 9
Company: Roux Environmental Engineering and Geology DPC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: Standard			
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested 4375.0002 Bo			
Email: bmayback@rouxinc.com	WO #:			
Project Name: North Aud Block - soil	Project #: 48028442			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	1633 - 1633 Standard List of 40	8082A, 8151A	6010C, 7471B	8081B, 8270D	TCL SVOCs + TICs	TAL Metals	Perchlorate	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N					
TP-31 2-3 Ft	2/12/25	1300	G	Solid			X	X	X	X	X	X				enCore
TP-32 2-3 Ft		1435		Solid			X	X	X	X	X					enCore
TP-31 7-9 Ft		1415		Solid								X	X	X		
TP-31 10-11 Ft		1430		Solid								X	X	X		
~~Bottle Blank 2~~				Solid								X	X	X		
~~Water~~																
~~Bottle 2~~				Solid												
				Solid												
				Solid												
				Solid												
				Solid												
				Solid												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, MS/MSD only

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 2/12/25 1600	Company: Roux	Received by:	Date/Time: 2/13/25 16:06	Company: Eur
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.6 2.9 3.1 ICE IR#SC

Ver: 10/10/2024

2/26/2025

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer Brian J	Carrier Tracking No(s): N/A	COC No: 480-91429 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brian Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 2
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-227331 1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 3/4/2025			
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

85-33

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TP-33 1-5 Ft (480-227331 1)	2/12/25	09:00 Eastern	G	Solid			X	1	
TP-33 5-9 (480-227331-2)	2/12/25	09:30 Eastern	G	Solid			X	1	
TP-33 5-9 (480-227331-2MS)	2/12/25	09:30 Eastern	G	Solid			X	1	
TP-33 5-9 (480-227331-2MSD)	2/12/25	09:30 Eastern	G	Solid			X	1	
TP-33 10-11 Ft (480-227331-3)	2/12/25	10:00 Eastern	G	Solid			X	1	
MW-2 0.5-3.5 Ft (480-227331-4)	2/12/25	11:00 Eastern	G	Solid			X	1	
MW-2 5-8 Ft (480-227331-5)	2/12/25	11 15 Eastern	G	Solid			X	1	
MW-2 12-15 Ft (480-227331-6)	2/12/25	11 30 Eastern	G	Solid			X	1	
Blind duplicate-1 (480-227331 7)	2/12/25	09:15 Eastern	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2-14-25 1000	Company EC
Relinquished by:	Date/Time: 2-13-25 1400	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer Brian J	Carrier Tracking No(s): N/A	COC No: 480-91429.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 2 of 2
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-227331 1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 3/4/2025			
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

85-33

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TP-34 0-4 Ft (480-227331-8)	2/12/25	12:30 Eastern	G	Solid			X	1	
TP-34 5-6 Ft (480-227331-9)	2/12/25	12:40 Eastern	G	Solid			X	1	
TP-31 2-4 Ft (480-227331-12)	2/12/25	15:00 Eastern	G	Solid			X	1	
TP-32 2-3 Ft (480-227331 13)	2/12/25	14.35 Eastern	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				2-14-25 1000	EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Eurofins – Cleveland Sample Receipt Form/Narrative Login #:
Barberton Facility

Client E. Buffalo Site Name

Cooler unpacked by:

Cooler Received on 2-14-25 Opened on 2-14-25

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 18 (CF -0.1 °C) Observed Cooler Temp 1.8 °C Corrected Cooler Temp 1.7 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12 Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC448976
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen.

SAMPLE CONTROL
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE

BUFFALO, NY 142282223
UNITED STATES US

ACTWGT: 55.75 LB
CAD 0759273/CAFE3855
DIMS 26x15x14 IN

BILL SENDER

Part# 159469434 MTW EXP 06/25

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF. BARBERTON

FedEx Express

FRI - 14 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7463 0662 2476

NX CAKA

44203
OH-US CLE

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-227331-1

Login Number: 227331
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6 2.9 3.1 ICE IR# SC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ROUX
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Generated 2/27/2025 10:42:02 AM

JOB DESCRIPTION

North Aud Block

JOB NUMBER

480-227359-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

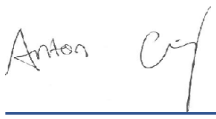
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
2/27/2025 10:42:02 AM

Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 17
Surrogate Summary 78
Isotope Dilution Summary 81
QC Sample Results 83
QC Association Summary 115
Lab Chronicle 121
Certification Summary 128
Method Summary 129
Sample Summary 130
Chain of Custody 131
Receipt Checklists 137

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-227359-1 Eurofins Buffalo

Job Narrative
480-227359-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/13/2025 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6°C and 4.2°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-739146 recovered outside acceptance criteria, low biased, for 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, trans-1,3-Dichloropropene, Chlorodibromomethane, Ethylene dibromide and 1,4-Dichlorobenzene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analytes, the data are reported. The following associated sample is impacted: RISB-6 17-18 ft (480-227359-12).

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-739024 and analytical batch 480-739146 recovered outside control limits for the following analyte: Cyclohexane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The following associated sample is impacted: RISB-6 17-18 ft (480-227359-12).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: Elevated reporting limits are provided for the following sample due to insufficient sample provided preparations SS-10 (480-227359-9).

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: MW-3 0-2 ft (480-227359-1), RISB-5 0-1 ft (480-227359-6) and RISB-6 0.5-3 ft (480-227359-11). Elevated reporting limits (RL) are provided.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SS-3 (480-227359-7) and SS-8 (480-227359-10). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 8082A: The following sample: SS-3 (480-227359-7) was decanted prior to preparation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: The following samples: SS-3 (480-227359-7) and SS-10 (480-227359-9) was decanted prior to preparation.

Method 8081B: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: SS-10 (480-227359-9).

Job ID: 480-227359-1 (Continued) Eurofins Buffalo

Method 8081B: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MW-3 0-2 ft (480-227359-1), SS-1 (480-227359-2), SS-2 (480-227359-3), SS-BD (480-227359-4), SS-4 (480-227359-5), SS-4 (480-227359-5[MS]), SS-4 (480-227359-5[MSD]), RISB-5 0-1 ft (480-227359-6), SS-3 (480-227359-7), SS-9 (480-227359-8), SS-10 (480-227359-9), SS-8 (480-227359-10) and RISB-6 0.5-3 ft (480-227359-11).

Method 8081B: The following samples were diluted due to the nature of the sample matrix: MW-3 0-2 ft (480-227359-1), SS-BD (480-227359-4), SS-4 (480-227359-5), RISB-5 0-1 ft (480-227359-6), SS-8 (480-227359-10) and RISB-6 0.5-3 ft (480-227359-11). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SS-4 (480-227359-5[MS]) and SS-4 (480-227359-5[MSD]). As such, spike and surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: The %RPD between the primary and confirmation column exceeded 40% for beta-BHC for the following sample: SS-8 (480-227359-10). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS
Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-645242 recovered outside of control limits for IDA compound(s). Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analytes associated with this IDA are within spec, data is reported

Method 1633: The continuing calibration verification (CCV) recovered outside of control limits for IDA compound(s). Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analytes associated with this IDA are within spec, data is reported. The following sample is impacted: SS-1 (480-227359-2).

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: SS-1 (480-227359-2), SS-2 (480-227359-3), SS-BD (480-227359-4), SS-4 (480-227359-5[MS]), SS-4 (480-227359-5[MSD]), SS-9 (480-227359-8), SS-8 (480-227359-10) and RISB-6 17-18 ft (480-227359-12) . Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries, samples are non detect for associated target analytes.

Method 1633: The continuing calibration verification (CCV) recovered outside of control limits for IDA compound(s). Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analytes associated with this IDA are within spec, data is reported. The following samples are impacted: SS-2 (480-227359-3), SS-BD (480-227359-4), SS-4 (480-227359-5), SS-4 (480-227359-5[MS]), SS-4 (480-227359-5[MSD]), SS-3 (480-227359-7), SS-9 (480-227359-8), SS-8 (480-227359-10), RISB-6 17-18 ft (480-227359-12) and (480-227359-A-12-B DU).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Client Sample ID: MW-3 0-2 ft
Lab Sample ID: 480-227359-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	310	J	1000	150	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	250	J	1000	130	ug/Kg	5	☼	8270D	Total/NA
Anthracene	1100		1000	260	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	3000		1000	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	2700		1000	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	3300		1000	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1500		1000	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1600		1000	130	ug/Kg	5	☼	8270D	Total/NA
Carbazole	360	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	3000		1000	230	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	530	J	1000	180	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	240	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	6800		1000	110	ug/Kg	5	☼	8270D	Total/NA
Fluorene	400	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1400		1000	130	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	180	J	1000	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	4100		1000	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene	5200		1000	120	ug/Kg	5	☼	8270D	Total/NA
Aluminum	9250		12.1	10.5	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.7		2.4	1.1	mg/Kg	1	☼	6010C	Total/NA
Barium	83.8		0.61	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.45		0.24	0.049	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.62		0.24	0.085	mg/Kg	1	☼	6010C	Total/NA
Calcium	34300		60.7	32.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.6	B	0.61	0.44	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.1		0.61	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	49.0		1.2	0.69	mg/Kg	1	☼	6010C	Total/NA
Iron	15400		12.1	10.3	mg/Kg	1	☼	6010C	Total/NA
Lead	185		1.2	0.56	mg/Kg	1	☼	6010C	Total/NA
Magnesium	11300		24.3	10.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	280		1.2	0.34	mg/Kg	1	☼	6010C	Total/NA
Nickel	16.6		6.1	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	2390		36.4	29.4	mg/Kg	1	☼	6010C	Total/NA
Silver	0.24	J	0.73	0.24	mg/Kg	1	☼	6010C	Total/NA
Sodium	273		170	74.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	19.5		0.61	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	127		2.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.23		0.024	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-1
Lab Sample ID: 480-227359-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	38	J	230	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	43	J	230	34	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	54	J	230	37	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	30	J	230	24	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	95	J	230	24	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	63	J	230	34	ug/Kg	1	☼	8270D	Total/NA
Pyrene	75	J	230	27	ug/Kg	1	☼	8270D	Total/NA
Perfluorooctanoic acid (PFOA)	0.18		0.17	0.043	ug/Kg	1	☼	1633	Total/NA
Perfluorononanoic acid (PFNA)	0.067	J	0.17	0.043	ug/Kg	1	☼	1633	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: SS-1 (Continued)
Lab Sample ID: 480-227359-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.23		0.17	0.043	ug/Kg	1	☼	1633	Total/NA
Aluminum	15500		14.6	12.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.5		2.9	1.3	mg/Kg	1	☼	6010C	Total/NA
Barium	82.5		0.73	0.20	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.60		0.29	0.058	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.46		0.29	0.10	mg/Kg	1	☼	6010C	Total/NA
Calcium	18000		72.9	39.4	mg/Kg	1	☼	6010C	Total/NA
Chromium	17.4	B	0.73	0.52	mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.4		0.73	0.15	mg/Kg	1	☼	6010C	Total/NA
Copper	15.4		1.5	0.83	mg/Kg	1	☼	6010C	Total/NA
Iron	17900		14.6	12.4	mg/Kg	1	☼	6010C	Total/NA
Lead	46.3		1.5	0.67	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7640		29.2	12.4	mg/Kg	1	☼	6010C	Total/NA
Manganese	518		1.5	0.41	mg/Kg	1	☼	6010C	Total/NA
Nickel	14.7		7.3	0.36	mg/Kg	1	☼	6010C	Total/NA
Potassium	2610		43.7	35.3	mg/Kg	1	☼	6010C	Total/NA
Sodium	245		204	89.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	30.1		0.73	0.19	mg/Kg	1	☼	6010C	Total/NA
Zinc	101		2.9	1.5	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.10		0.027	0.0063	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-2
Lab Sample ID: 480-227359-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	66	J	230	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	57	J	230	34	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	77	J	230	36	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	35	J	230	24	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	30	J	230	30	ug/Kg	1	☼	8270D	Total/NA
Chrysene	67	J	230	51	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	140	J	230	24	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	33	J	230	28	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	65	J	230	34	ug/Kg	1	☼	8270D	Total/NA
Pyrene	100	J	230	27	ug/Kg	1	☼	8270D	Total/NA
Perfluorooctanoic acid (PFOA)	0.15	J	0.17	0.043	ug/Kg	1	☼	1633	Total/NA
Perfluorononanoic acid (PFNA)	0.074	J	0.17	0.043	ug/Kg	1	☼	1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.045	J	0.17	0.043	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.22		0.17	0.043	ug/Kg	1	☼	1633	Total/NA
Aluminum	19400		13.5	11.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.9		2.7	1.2	mg/Kg	1	☼	6010C	Total/NA
Barium	111		0.67	0.19	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.74		0.27	0.054	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.51		0.27	0.094	mg/Kg	1	☼	6010C	Total/NA
Calcium	8020		67.3	36.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	23.4	B	0.67	0.48	mg/Kg	1	☼	6010C	Total/NA
Cobalt	8.7		0.67	0.13	mg/Kg	1	☼	6010C	Total/NA
Copper	18.8		1.3	0.77	mg/Kg	1	☼	6010C	Total/NA
Iron	22300		13.5	11.4	mg/Kg	1	☼	6010C	Total/NA
Lead	37.0		1.3	0.62	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5300		26.9	11.4	mg/Kg	1	☼	6010C	Total/NA
Manganese	653		1.3	0.38	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-2 (Continued)
Lab Sample ID: 480-227359-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	20.5		6.7	0.34	mg/Kg	1	☼	6010C	Total/NA
Potassium	3310		40.4	32.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	208		189	82.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	36.9		0.67	0.18	mg/Kg	1	☼	6010C	Total/NA
Zinc	120		2.7	1.4	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.056		0.026	0.0061	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-BD
Lab Sample ID: 480-227359-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	68	J	220	54	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	250		220	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	260		220	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	310		220	35	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	160	J	220	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	130	J	220	28	ug/Kg	1	☼	8270D	Total/NA
Carbazole	26	J	220	26	ug/Kg	1	☼	8270D	Total/NA
Chrysene	260		220	49	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	48	J	220	39	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	530		220	23	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	140	J	220	27	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	270		220	32	ug/Kg	1	☼	8270D	Total/NA
Pyrene	420		220	26	ug/Kg	1	☼	8270D	Total/NA
Perfluorooctanoic acid (PFOA)	0.11	J	0.16	0.040	ug/Kg	1	☼	1633	Total/NA
Perfluorononanoic acid (PFNA)	0.065	J I	0.16	0.040	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.21		0.16	0.040	ug/Kg	1	☼	1633	Total/NA
Aluminum	17500		13.8	11.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.4		2.8	1.2	mg/Kg	1	☼	6010C	Total/NA
Barium	101		0.69	0.19	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.68		0.28	0.055	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.50		0.28	0.097	mg/Kg	1	☼	6010C	Total/NA
Calcium	7160		69.1	37.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	19.2	B	0.69	0.50	mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.5		0.69	0.14	mg/Kg	1	☼	6010C	Total/NA
Copper	13.5		1.4	0.79	mg/Kg	1	☼	6010C	Total/NA
Iron	19400		13.8	11.7	mg/Kg	1	☼	6010C	Total/NA
Lead	30.2		1.4	0.64	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4580		27.6	11.7	mg/Kg	1	☼	6010C	Total/NA
Manganese	584		1.4	0.39	mg/Kg	1	☼	6010C	Total/NA
Nickel	16.3		6.9	0.35	mg/Kg	1	☼	6010C	Total/NA
Potassium	2710		41.5	33.5	mg/Kg	1	☼	6010C	Total/NA
Sodium	157	J	193	84.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	33.9		0.69	0.18	mg/Kg	1	☼	6010C	Total/NA
Zinc	103		2.8	1.4	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.051		0.026	0.0060	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-4
Lab Sample ID: 480-227359-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	81	J	250	61	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	210	J	250	25	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200	J	250	36	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-4 (Continued)
Lab Sample ID: 480-227359-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	240	J	250	39	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	120	J	250	26	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	110	J	250	32	ug/Kg	1	☼	8270D	Total/NA
Carbazole	29	J	250	29	ug/Kg	1	☼	8270D	Total/NA
Chrysene	210	J	250	55	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	480		250	26	ug/Kg	1	☼	8270D	Total/NA
Fluorene	33	J	250	29	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	100	J	250	31	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	340		250	36	ug/Kg	1	☼	8270D	Total/NA
Pyrene	370		250	29	ug/Kg	1	☼	8270D	Total/NA
Perfluorooctanoic acid (PFOA)	0.10	J	0.18	0.046	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.20		0.18	0.046	ug/Kg	1	☼	1633	Total/NA
Aluminum	17500	F2	14.3	12.3	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.3		2.9	1.3	mg/Kg	1	☼	6010C	Total/NA
Barium	103		0.72	0.20	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.78		0.29	0.057	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.70		0.29	0.10	mg/Kg	1	☼	6010C	Total/NA
Calcium	72700	F2	71.6	38.6	mg/Kg	1	☼	6010C	Total/NA
Chromium	19.0	B	0.72	0.52	mg/Kg	1	☼	6010C	Total/NA
Cobalt	8.0		0.72	0.14	mg/Kg	1	☼	6010C	Total/NA
Copper	18.5		1.4	0.82	mg/Kg	1	☼	6010C	Total/NA
Iron	18500	F2	14.3	12.1	mg/Kg	1	☼	6010C	Total/NA
Lead	55.2		1.4	0.66	mg/Kg	1	☼	6010C	Total/NA
Magnesium	11000	F1	28.6	12.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	788	F2	1.4	0.40	mg/Kg	1	☼	6010C	Total/NA
Nickel	17.3		7.2	0.36	mg/Kg	1	☼	6010C	Total/NA
Potassium	3460	F1	42.9	34.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	263		200	87.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	32.1		0.72	0.19	mg/Kg	1	☼	6010C	Total/NA
Zinc	111		2.9	1.5	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.071		0.030	0.0069	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: RISB-5 0-1 ft
Lab Sample ID: 480-227359-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	330	J	990	99	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	290	J	990	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	380	J	990	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180	J	990	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	170	J	990	130	ug/Kg	5	☼	8270D	Total/NA
Chrysene	330	J	990	220	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	740	J	990	100	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150	J	990	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	480	J	990	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene	530	J	990	120	ug/Kg	5	☼	8270D	Total/NA
Aluminum	12900		11.1	9.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.3		2.2	0.98	mg/Kg	1	☼	6010C	Total/NA
Barium	97.5		0.55	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.53		0.22	0.044	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.33		0.22	0.078	mg/Kg	1	☼	6010C	Total/NA
Calcium	65700		55.5	29.9	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RISB-5 0-1 ft (Continued)
Lab Sample ID: 480-227359-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	18.1	B	0.55	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.4		0.55	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	31.7		1.1	0.63	mg/Kg	1	☼	6010C	Total/NA
Iron	14900		11.1	9.4	mg/Kg	1	☼	6010C	Total/NA
Lead	118		1.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Magnesium	20000		22.2	9.4	mg/Kg	1	☼	6010C	Total/NA
Manganese	400		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	15.7		5.5	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	2960		33.3	26.9	mg/Kg	1	☼	6010C	Total/NA
Sodium	284		155	68.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	26.1		0.55	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	101		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.13		0.023	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-3
Lab Sample ID: 480-227359-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	65	J	190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	58	J	190	28	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	73	J	190	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	33	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	29	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Chrysene	61	J	190	43	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	140	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	29	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	87	J	190	28	ug/Kg	1	☼	8270D	Total/NA
Pyrene	100	J	190	23	ug/Kg	1	☼	8270D	Total/NA
Aluminum	5250		11.8	10.2	mg/Kg	1	☼	6010C	Total/NA
Barium	30.6		0.59	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.21	J	0.24	0.047	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.11	J	0.24	0.083	mg/Kg	1	☼	6010C	Total/NA
Calcium	54000		59.1	31.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	6.9	B	0.59	0.43	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.4		0.59	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	8.1		1.2	0.67	mg/Kg	1	☼	6010C	Total/NA
Iron	6590		11.8	10.0	mg/Kg	1	☼	6010C	Total/NA
Lead	9.5		1.2	0.54	mg/Kg	1	☼	6010C	Total/NA
Magnesium	27300		23.6	10.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	159		1.2	0.33	mg/Kg	1	☼	6010C	Total/NA
Nickel	6.7		5.9	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	1590		35.5	28.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	245		166	72.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	10.6		0.59	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	35.7		2.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.017	J	0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-9
Lab Sample ID: 480-227359-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	59	J	230	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	60	J	230	34	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	82	J	230	36	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-9 (Continued)
Lab Sample ID: 480-227359-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	42	J	230	24	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	35	J	230	30	ug/Kg	1	☼	8270D	Total/NA
Chrysene	63	J	230	51	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	120	J	230	24	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	38	J	230	28	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	55	J	230	34	ug/Kg	1	☼	8270D	Total/NA
Pyrene	97	J	230	27	ug/Kg	1	☼	8270D	Total/NA
beta-BHC	1.8	J	2.2	0.40	ug/Kg	1	☼	8081B	Total/NA
Perfluorohexanoic acid (PFHxA)	0.077	J	0.17	0.042	ug/Kg	1	☼	1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.057	J	0.17	0.042	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.28		0.17	0.042	ug/Kg	1	☼	1633	Total/NA
Perfluorononanoic acid (PFNA)	0.076	J	0.17	0.042	ug/Kg	1	☼	1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.059	J	0.17	0.042	ug/Kg	1	☼	1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.084	J	0.17	0.042	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.37		0.17	0.042	ug/Kg	1	☼	1633	Total/NA
Aluminum	17500		14.1	12.2	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.0		2.8	1.2	mg/Kg	1	☼	6010C	Total/NA
Barium	186		0.71	0.20	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.69		0.28	0.056	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.38		0.28	0.099	mg/Kg	1	☼	6010C	Total/NA
Calcium	24700		70.6	38.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	20.0	B	0.71	0.51	mg/Kg	1	☼	6010C	Total/NA
Cobalt	8.0		0.71	0.14	mg/Kg	1	☼	6010C	Total/NA
Copper	18.4		1.4	0.80	mg/Kg	1	☼	6010C	Total/NA
Iron	19100		14.1	12.0	mg/Kg	1	☼	6010C	Total/NA
Lead	53.3		1.4	0.65	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7900		28.2	12.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	495		1.4	0.40	mg/Kg	1	☼	6010C	Total/NA
Nickel	18.3		7.1	0.35	mg/Kg	1	☼	6010C	Total/NA
Potassium	3060		42.4	34.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	193	J	198	86.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	33.2		0.71	0.18	mg/Kg	1	☼	6010C	Total/NA
Zinc	109		2.8	1.4	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.13		0.028	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-10
Lab Sample ID: 480-227359-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2300	J	9300	2300	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	6300	J	9300	930	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5800	J	9300	1400	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	7400	J	9300	1500	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	3400	J	9300	980	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	3200	J	9300	1200	ug/Kg	1	☼	8270D	Total/NA
Chrysene	6400	J	9300	2100	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	14000		9300	980	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	3300	J	9300	1100	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	9100	J	9300	1400	ug/Kg	1	☼	8270D	Total/NA
Pyrene	9900		9300	1100	ug/Kg	1	☼	8270D	Total/NA
Aluminum	56300		287	248	mg/Kg	1	☼	6010C	Total/NA
Barium	507		14.4	4.0	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-10 (Continued)
Lab Sample ID: 480-227359-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	2.7	J	5.7	1.1	mg/Kg	1	☼	6010C	Total/NA
Cadmium	2.8	J	5.7	2.0	mg/Kg	1	☼	6010C	Total/NA
Calcium	1170000		1440	776	mg/Kg	1	☼	6010C	Total/NA
Chromium	113	B	14.4	10.3	mg/Kg	1	☼	6010C	Total/NA
Cobalt	19.5		14.4	2.9	mg/Kg	1	☼	6010C	Total/NA
Copper	154		28.7	16.4	mg/Kg	1	☼	6010C	Total/NA
Iron	78100		287	244	mg/Kg	1	☼	6010C	Total/NA
Lead	342		28.7	13.2	mg/Kg	1	☼	6010C	Total/NA
Magnesium	83300		575	244	mg/Kg	1	☼	6010C	Total/NA
Manganese	1930		28.7	8.0	mg/Kg	1	☼	6010C	Total/NA
Nickel	78.8	J	144	7.2	mg/Kg	1	☼	6010C	Total/NA
Potassium	16700		862	697	mg/Kg	1	☼	6010C	Total/NA
Sodium	32300		4020	1760	mg/Kg	1	☼	6010C	Total/NA
Vanadium	123		14.4	3.7	mg/Kg	1	☼	6010C	Total/NA
Zinc	605		57.5	29.3	mg/Kg	1	☼	6010C	Total/NA
Mercury	2.4		0.56	0.13	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-8
Lab Sample ID: 480-227359-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	66	J	230	56	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	170	J	230	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	180	J	230	33	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	210	J	230	36	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	98	J	230	24	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	97	J	230	29	ug/Kg	1	☼	8270D	Total/NA
Carbazole	33	J	230	27	ug/Kg	1	☼	8270D	Total/NA
Chrysene	180	J	230	51	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	350		230	24	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	87	J	230	28	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	270		230	33	ug/Kg	1	☼	8270D	Total/NA
Pyrene	270		230	27	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDT	2.6	J	11	2.6	ug/Kg	5	☼	8081B	Total/NA
beta-BHC	12		11	2.0	ug/Kg	5	☼	8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	0.12	J	0.33	0.083	ug/Kg	1	☼	1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.092	J	0.17	0.041	ug/Kg	1	☼	1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.066	J	0.17	0.041	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.23		0.17	0.041	ug/Kg	1	☼	1633	Total/NA
Perfluorononanoic acid (PFNA)	0.088	J	0.17	0.041	ug/Kg	1	☼	1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.087	J	0.17	0.041	ug/Kg	1	☼	1633	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.041	J	0.17	0.041	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.47		0.17	0.041	ug/Kg	1	☼	1633	Total/NA
Aluminum	18200		14.0	12.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	11.5		2.8	1.2	mg/Kg	1	☼	6010C	Total/NA
Barium	119		0.70	0.20	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.77		0.28	0.056	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.99		0.28	0.098	mg/Kg	1	☼	6010C	Total/NA
Calcium	16500		69.9	37.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	21.3	B	0.70	0.50	mg/Kg	1	☼	6010C	Total/NA
Cobalt	12.6		0.70	0.14	mg/Kg	1	☼	6010C	Total/NA
Copper	17.7		1.4	0.80	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-8 (Continued)
Lab Sample ID: 480-227359-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	25600		14.0	11.8	mg/Kg	1	☼	6010C	Total/NA
Lead	69.5		1.4	0.64	mg/Kg	1	☼	6010C	Total/NA
Magnesium	6270		27.9	11.8	mg/Kg	1	☼	6010C	Total/NA
Manganese	1260		1.4	0.39	mg/Kg	1	☼	6010C	Total/NA
Nickel	18.8		7.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Potassium	3150		41.9	33.9	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.1	J	5.6	1.1	mg/Kg	1	☼	6010C	Total/NA
Sodium	176	J	196	85.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	38.9		0.70	0.18	mg/Kg	1	☼	6010C	Total/NA
Zinc	155		2.8	1.4	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.061		0.026	0.0060	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: RISB-6 0.5-3 ft
Lab Sample ID: 480-227359-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	190	J	930	140	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	190	J	930	120	ug/Kg	5	☼	8270D	Total/NA
Anthracene	1100		930	230	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	3200		930	93	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	2700		930	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	3200		930	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1300		930	99	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1700		930	120	ug/Kg	5	☼	8270D	Total/NA
Carbazole	160	J	930	110	ug/Kg	5	☼	8270D	Total/NA
Chrysene	3000		930	210	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	500	J	930	160	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	180	J	930	110	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	7200		930	99	ug/Kg	5	☼	8270D	Total/NA
Fluorene	370	J	930	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1300		930	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	3500		930	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	5000		930	110	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDT	9.6	J	37	8.7	ug/Kg	20	☼	8081B	Total/NA
Aluminum	7640		11.2	9.7	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.5		2.2	0.99	mg/Kg	1	☼	6010C	Total/NA
Barium	70.8		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.38		0.22	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.29		0.22	0.079	mg/Kg	1	☼	6010C	Total/NA
Calcium	71200		56.2	30.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	11.9	B	0.56	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.0		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	30.7		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Iron	11100		11.2	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	120		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Magnesium	12900		22.5	9.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	258		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.2		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	2100		33.7	27.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	365		157	68.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	17.1		0.56	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	93.4		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RISB-6 0.5-3 ft (Continued)
Lab Sample ID: 480-227359-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.32		0.023	0.0052	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: RISB-6 17-18 ft
Lab Sample ID: 480-227359-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	3.5	J	28	2.1	ug/Kg	1	☼	8260C	Total/NA
Acetone	18	J	28	4.8	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.36	J B	5.6	0.35	ug/Kg	1	☼	8260C	Total/NA
Aluminum	6840		14.0	12.1	mg/Kg	1	☼	6010C	Total/NA
Barium	107		0.70	0.20	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.25	J	0.28	0.056	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.15	J	0.28	0.098	mg/Kg	1	☼	6010C	Total/NA
Calcium	31200		70.1	37.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.4	B	0.70	0.50	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.0		0.70	0.14	mg/Kg	1	☼	6010C	Total/NA
Copper	5.4		1.4	0.80	mg/Kg	1	☼	6010C	Total/NA
Iron	5930		14.0	11.9	mg/Kg	1	☼	6010C	Total/NA
Lead	7.9		1.4	0.65	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3630		28.1	11.9	mg/Kg	1	☼	6010C	Total/NA
Manganese	77.7		1.4	0.39	mg/Kg	1	☼	6010C	Total/NA
Nickel	6.7	J	7.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Potassium	1240		42.1	34.0	mg/Kg	1	☼	6010C	Total/NA
Sodium	224		196	86.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.3		0.70	0.18	mg/Kg	1	☼	6010C	Total/NA
Zinc	37.3		2.8	1.4	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.032		0.027	0.0062	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-3 0-2 ft
Lab Sample ID: 480-227359-1
Date Collected: 02/13/25 10:00
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 81.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1000	150	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
bis (2-chloroisopropyl) ether	ND		1000	210	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2,4,5-Trichlorophenol	ND		1000	280	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2,4,6-Trichlorophenol	ND		1000	210	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2,4-Dichlorophenol	ND		1000	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2,4-Dimethylphenol	ND		1000	250	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2,4-Dinitrophenol	ND		10000	4800	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2,4-Dinitrotoluene	ND		1000	210	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2,6-Dinitrotoluene	ND		1000	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2-Chloronaphthalene	ND		1000	170	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
1,4-Dioxane	ND		610	330	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2-Chlorophenol	ND		2000	190	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2-Methylnaphthalene	ND		1000	210	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2-Methylphenol	ND		1000	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2-Nitroaniline	ND		2000	150	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
2-Nitrophenol	ND		1000	290	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
3,3'-Dichlorobenzidine	ND		2000	1200	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
3-Nitroaniline	ND		2000	290	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
4,6-Dinitro-2-methylphenol	ND		2000	1000	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
4-Bromophenyl phenyl ether	ND		1000	150	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
4-Chloro-3-methylphenol	ND		1000	260	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
4-Chloroaniline	ND		1000	260	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
4-Chlorophenyl phenyl ether	ND		1000	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
4-Methylphenol	ND		2000	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
4-Nitroaniline	ND		2000	540	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
4-Nitrophenol	ND		2000	720	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Acenaphthene	**310**	**J**	1000	150	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Acenaphthylene	**250**	**J**	1000	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Acetophenone	ND		1000	140	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Anthracene	**1100**		1000	260	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Atrazine	ND		1000	360	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Benzaldehyde	ND		1000	820	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Benzo[a]anthracene	**3000**		1000	100	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Benzo[a]pyrene	**2700**		1000	150	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Benzo[b]fluoranthene	**3300**		1000	160	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Benzo[g,h,i]perylene	**1500**		1000	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Benzo[k]fluoranthene	**1600**		1000	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Bis(2-chloroethoxy)methane	ND		1000	220	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Bis(2-chloroethyl)ether	ND		1000	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Bis(2-ethylhexyl) phthalate	ND		1000	350	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Butyl benzyl phthalate	ND		1000	170	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Caprolactam	ND		1000	310	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Carbazole	**360**	**J**	1000	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Chrysene	**3000**		1000	230	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Di-n-butyl phthalate	ND		1000	180	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Di-n-octyl phthalate	ND		1000	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Dibenz(a,h)anthracene	**530**	**J**	1000	180	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Dibenzofuran	**240**	**J**	1000	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Diethyl phthalate	ND		1000	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5

Client Sample ID: MW-3 0-2 ft
Date Collected: 02/13/25 10:00
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-1
Matrix: Solid
Percent Solids: 81.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		1000	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Fluoranthene	**6800**		1000	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Fluorene	**400**	**J**	1000	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Hexachlorobenzene	ND		1000	140	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Hexachlorobutadiene	ND		1000	150	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Hexachlorocyclopentadiene	ND		1000	140	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Hexachloroethane	ND		1000	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Indeno[1,2,3-cd]pyrene	**1400**		1000	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Isophorone	ND		1000	220	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
N-Nitrosodi-n-propylamine	ND		1000	180	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
N-Nitrosodiphenylamine	ND		1000	840	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Naphthalene	**180**	**J**	1000	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Nitrobenzene	ND		1000	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Pentachlorophenol	ND		2000	1000	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Phenanthrene	**4100**		1000	150	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Phenol	ND		1000	160	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5
Pyrene	**5200**		1000	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:46	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2700*	*T J*	*ug/Kg*	☼	*3.48*	*N/A*	*02/25/25 07:05*	*02/25/25 19:46*	*5*
Unknown	*1100*	*T J*	*ug/Kg*	☼	*11.56*	*N/A*	*02/25/25 07:05*	*02/25/25 19:46*	*5*
Benzo[e]pyrene	*1700*	*T J N*	*ug/Kg*	☼	*14.44*	*192-97-2*	*02/25/25 07:05*	*02/25/25 19:46*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*26 - 143*	*02/25/25 07:05*	*02/25/25 19:46*	*5*
2-Fluorobiphenyl	*88*		*50 - 121*	*02/25/25 07:05*	*02/25/25 19:46*	*5*
2-Fluorophenol	*81*		*36 - 120*	*02/25/25 07:05*	*02/25/25 19:46*	*5*
Nitrobenzene-d5	*81*		*40 - 121*	*02/25/25 07:05*	*02/25/25 19:46*	*5*
p-Terphenyl-d14	*88*		*46 - 143*	*02/25/25 07:05*	*02/25/25 19:46*	*5*
Phenol-d5	*82*		*41 - 120*	*02/25/25 07:05*	*02/25/25 19:46*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	3.9	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
4,4'-DDE	ND		20	4.2	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
4,4'-DDT	ND		20	4.7	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
Aldrin	ND		20	5.0	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
alpha-BHC	ND		20	3.6	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
cis-Chlordane	ND		20	10	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
beta-BHC	ND		20	3.6	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
delta-BHC	ND		20	3.7	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
Dieldrin	ND		20	4.8	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
Endosulfan I	ND		20	3.9	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
Endosulfan II	ND		20	3.6	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
Endosulfan sulfate	ND		20	3.8	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
Endrin	ND		20	4.0	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
Endrin aldehyde	ND		20	5.1	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
Endrin ketone	ND		20	5.0	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
gamma-BHC (Lindane)	ND		20	3.7	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
trans-Chlordane	ND		20	6.4	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10

Client Sample ID: MW-3 0-2 ft
Lab Sample ID: 480-227359-1

Date Collected: 02/13/25 10:00
Matrix: Solid

Date Received: 02/13/25 16:45
Percent Solids: 81.9

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		20	4.4	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
Heptachlor epoxide	ND		20	5.2	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
Methoxychlor	ND		20	4.1	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10
Toxaphene	ND		200	120	ug/Kg	☼	02/21/25 08:39	02/24/25 11:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*132*	*S1+*	*45 - 120*	*02/21/25 08:39*	*02/24/25 11:43*	*10*
DCB Decachlorobiphenyl	*454*	*S1+*	*45 - 120*	*02/21/25 08:39*	*02/24/25 11:43*	*10*
Tetrachloro-m-xylene	*93*		*30 - 124*	*02/21/25 08:39*	*02/24/25 11:43*	*10*
Tetrachloro-m-xylene	*73*		*30 - 124*	*02/21/25 08:39*	*02/24/25 11:43*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9250**		12.1	10.5	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Antimony	ND		18.2	0.64	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Arsenic	**4.7**		2.4	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Barium	**83.8**		0.61	0.17	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Beryllium	**0.45**		0.24	0.049	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Cadmium	**0.62**		0.24	0.085	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Calcium	**34300**		60.7	32.8	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Chromium	**16.6**	**B**	0.61	0.44	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Cobalt	**5.1**		0.61	0.12	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Copper	**49.0**		1.2	0.69	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Iron	**15400**		12.1	10.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Lead	**185**		1.2	0.56	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Magnesium	**11300**		24.3	10.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Manganese	**280**		1.2	0.34	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Nickel	**16.6**		6.1	0.30	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Potassium	**2390**		36.4	29.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Selenium	ND		4.9	0.97	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Silver	**0.24**	**J**	0.73	0.24	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Sodium	**273**		170	74.5	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Thallium	ND		7.3	0.92	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Vanadium	**19.5**		0.61	0.16	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1
Zinc	**127**		2.4	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.024	0.0054	mg/Kg	☼	02/19/25 09:48	02/19/25 12:30	1

Client Sample ID: SS-1
Date Collected: 02/13/25 11:00
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-2
Matrix: Solid
Percent Solids: 72.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
bis (2-chloroisopropyl) ether	ND		230	46	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2,4,5-Trichlorophenol	ND		230	62	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2,4,6-Trichlorophenol	ND		230	46	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2,4-Dichlorophenol	ND		230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2,4-Dimethylphenol	ND		230	56	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2,4-Dinitrophenol	ND		2200	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2,4-Dinitrotoluene	ND		230	47	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2,6-Dinitrotoluene	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2-Chloronaphthalene	ND		230	38	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
1,4-Dioxane	ND		140	75	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2-Chlorophenol	ND		450	42	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2-Methylnaphthalene	ND		230	46	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2-Methylphenol	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2-Nitroaniline	ND		450	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
2-Nitrophenol	ND		230	65	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
3,3'-Dichlorobenzidine	ND		450	270	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
3-Nitroaniline	ND		450	64	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
4,6-Dinitro-2-methylphenol	ND		450	230	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
4-Bromophenyl phenyl ether	ND		230	33	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
4-Chloro-3-methylphenol	ND		230	57	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
4-Chloroaniline	ND		230	57	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
4-Chlorophenyl phenyl ether	ND		230	28	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
4-Methylphenol	ND		450	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
4-Nitroaniline	ND		450	120	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
4-Nitrophenol	ND		450	160	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Acenaphthene	ND		230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Acenaphthylene	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Acetophenone	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Anthracene	ND		230	57	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Atrazine	ND		230	80	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Benzaldehyde	ND		230	180	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Benzo[a]anthracene	**38**	**J**	230	23	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Benzo[a]pyrene	**43**	**J**	230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Benzo[b]fluoranthene	**54**	**J**	230	37	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Benzo[g,h,i]perylene	**30**	**J**	230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Benzo[k]fluoranthene	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Bis(2-chloroethoxy)methane	ND		230	49	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Bis(2-chloroethyl)ether	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Bis(2-ethylhexyl) phthalate	ND		230	79	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Butyl benzyl phthalate	ND		230	38	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Caprolactam	ND		230	69	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Carbazole	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Chrysene	ND		230	51	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Di-n-butyl phthalate	ND		230	39	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Di-n-octyl phthalate	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Dibenz(a,h)anthracene	ND		230	41	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Dibenzofuran	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Diethyl phthalate	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1

Client Sample ID: SS-1
Date Collected: 02/13/25 11:00
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-2
Matrix: Solid
Percent Solids: 72.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Fluoranthene	**95**	**J**	230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Fluorene	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Hexachlorobenzene	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Hexachlorobutadiene	ND		230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Hexachlorocyclopentadiene	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Hexachloroethane	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Indeno[1,2,3-cd]pyrene	ND		230	28	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Isophorone	ND		230	49	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
N-Nitrosodi-n-propylamine	ND		230	39	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
N-Nitrosodiphenylamine	ND		230	190	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Naphthalene	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Nitrobenzene	ND		230	26	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Pentachlorophenol	ND		450	230	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Phenanthrene	**63**	**J**	230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Phenol	ND		230	35	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1
Pyrene	**75**	**J**	230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2800*	*T J*	*ug/Kg*	☼	*1.99*	*N/A*	*02/25/25 07:05*	*02/25/25 20:12*	*1*
Unknown	*3700*	*T J*	*ug/Kg*	☼	*3.48*	*N/A*	*02/25/25 07:05*	*02/25/25 20:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*101*		*26 - 143*	*02/25/25 07:05*	*02/25/25 20:12*	*1*
2-Fluorobiphenyl	*96*		*50 - 121*	*02/25/25 07:05*	*02/25/25 20:12*	*1*
2-Fluorophenol	*77*		*36 - 120*	*02/25/25 07:05*	*02/25/25 20:12*	*1*
Nitrobenzene-d5	*85*		*40 - 121*	*02/25/25 07:05*	*02/25/25 20:12*	*1*
p-Terphenyl-d14	*94*		*46 - 143*	*02/25/25 07:05*	*02/25/25 20:12*	*1*
Phenol-d5	*85*		*41 - 120*	*02/25/25 07:05*	*02/25/25 20:12*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.3	0.45	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
4,4'-DDE	ND		2.3	0.48	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
4,4'-DDT	ND		2.3	0.54	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
Aldrin	ND		2.3	0.57	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
alpha-BHC	ND		2.3	0.41	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
cis-Chlordane	ND		2.3	1.1	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
beta-BHC	ND		2.3	0.41	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
delta-BHC	ND		2.3	0.43	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
Dieldrin	ND		2.3	0.55	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
Endosulfan I	ND		2.3	0.44	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
Endosulfan II	ND		2.3	0.41	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
Endosulfan sulfate	ND		2.3	0.43	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
Endrin	ND		2.3	0.45	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
Endrin aldehyde	ND		2.3	0.59	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
Endrin ketone	ND		2.3	0.57	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
gamma-BHC (Lindane)	ND		2.3	0.42	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
trans-Chlordane	ND		2.3	0.73	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
Heptachlor	ND		2.3	0.50	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1

Client Sample ID: SS-1
Lab Sample ID: 480-227359-2
Date Collected: 02/13/25 11:00
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 72.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		2.3	0.59	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
Methoxychlor	ND		2.3	0.47	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1
Toxaphene	ND		23	13	ug/Kg	☼	02/21/25 08:39	02/24/25 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*45 - 120*	*02/21/25 08:39*	*02/24/25 12:03*	*1*
DCB Decachlorobiphenyl	*115*		*45 - 120*	*02/21/25 08:39*	*02/24/25 12:03*	*1*
Tetrachloro-m-xylene	*76*		*30 - 124*	*02/21/25 08:39*	*02/24/25 12:03*	*1*
Tetrachloro-m-xylene	*82*		*30 - 124*	*02/21/25 08:39*	*02/24/25 12:03*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	02/17/25 07:16	02/18/25 13:31	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	02/17/25 07:16	02/18/25 13:31	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	02/17/25 07:16	02/18/25 13:31	1
PCB-1242	ND		0.27	0.053	mg/Kg	☼	02/17/25 07:16	02/18/25 13:31	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	02/17/25 07:16	02/18/25 13:31	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	02/17/25 07:16	02/18/25 13:31	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	02/17/25 07:16	02/18/25 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*60 - 154*	*02/17/25 07:16*	*02/18/25 13:31*	*1*
Tetrachloro-m-xylene	*95*		*60 - 154*	*02/17/25 07:16*	*02/18/25 13:31*	*1*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*02/17/25 07:16*	*02/18/25 13:31*	*1*
DCB Decachlorobiphenyl	*101*		*65 - 174*	*02/17/25 07:16*	*02/18/25 13:31*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		22	7.1	ug/Kg	☼	02/24/25 06:56	02/26/25 13:29	1
Silvex (2,4,5-TP)	ND		22	8.0	ug/Kg	☼	02/24/25 06:56	02/26/25 13:29	1
2,4-D	ND		22	14	ug/Kg	☼	02/24/25 06:56	02/26/25 13:29	1
Dichlorprop	ND		22	11	ug/Kg	☼	02/24/25 06:56	02/26/25 13:29	1
Pentachlorophenol	ND		22	7.3	ug/Kg	☼	02/24/25 06:56	02/26/25 13:29	1
Picloram	ND		22	9.6	ug/Kg	☼	02/24/25 06:56	02/26/25 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*02/24/25 06:56*	*02/26/25 13:29*	*1*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*02/24/25 06:56*	*02/26/25 13:29*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.68	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluoropentanoic acid (PFPeA)	ND		0.34	0.085	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorohexanoic acid (PFHxA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluoroheptanoic acid (PFHpA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorooctanoic acid (PFOA)	**0.18**		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorononanoic acid (PFNA)	**0.067**	**J**	0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorodecanoic acid (PFDA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluoroundecanoic acid (PFUnA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorododecanoic acid (PFDoA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1

Client Sample ID: SS-1
Date Collected: 02/13/25 11:00
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-2
Matrix: Solid
Percent Solids: 72.5

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeDA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorooctanesulfonic acid (PFOS)	**0.23**		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorononanesulfonic acid (PFNS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.68	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.68	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.68	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.7	0.43	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.7	0.43	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.68	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.68	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.34	0.085	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.34	0.085	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.68	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.68	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.34	0.085	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.85	0.21	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.3	1.1	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.3	1.1	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.34	0.085	ug/Kg	☼	02/17/25 13:48	02/18/25 13:38	1

Client Sample ID: SS-1
Date Collected: 02/13/25 11:00
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-2
Matrix: Solid
Percent Solids: 72.5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	99.9		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C5 PFPeA	87.4		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C5 PFHxA	92.7		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C4 PFHpA	95.3		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C8 PFOA	86.8		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C9 PFNA	103		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C6 PFDA	96.6		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C7 PFUnA	102		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C2 PFTeDA	88.3		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C3 PFBS	85.0		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C3 PFHxS	86.5		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C8 PFOS	88.1		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C8 PFOSA	93.6		20 - 150	02/17/25 13:48	02/18/25 13:38	1
d3-NMeFOSAA	99.5		20 - 150	02/17/25 13:48	02/18/25 13:38	1
d5-NEtFOSAA	92.4		20 - 150	02/17/25 13:48	02/18/25 13:38	1
M2-4:2 FTS	247	*5+	20 - 150	02/17/25 13:48	02/18/25 13:38	1
M2-6:2 FTS	125		20 - 150	02/17/25 13:48	02/18/25 13:38	1
M2-8:2 FTS	154	*5+	20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C3 HFPO-DA	95.8		20 - 150	02/17/25 13:48	02/18/25 13:38	1
d7-N-MeFOSE-M	85.9		20 - 150	02/17/25 13:48	02/18/25 13:38	1
d9-N-EtFOSE-M	79.0		20 - 150	02/17/25 13:48	02/18/25 13:38	1
d5-NEtPFOSA	76.5		20 - 150	02/17/25 13:48	02/18/25 13:38	1
D3-NMeFOSA	86.1		20 - 150	02/17/25 13:48	02/18/25 13:38	1
13C2-PFDoDA	97.7		20 - 150	02/17/25 13:48	02/18/25 13:38	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15500**		14.6	12.6	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Antimony	ND		21.9	0.77	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Arsenic	**3.5**		2.9	1.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Barium	**82.5**		0.73	0.20	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Beryllium	**0.60**		0.29	0.058	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Cadmium	**0.46**		0.29	0.10	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Calcium	**18000**		72.9	39.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Chromium	**17.4**	**B**	0.73	0.52	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Cobalt	**7.4**		0.73	0.15	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Copper	**15.4**		1.5	0.83	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Iron	**17900**		14.6	12.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Lead	**46.3**		1.5	0.67	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Magnesium	**7640**		29.2	12.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Manganese	**518**		1.5	0.41	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Nickel	**14.7**		7.3	0.36	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Potassium	**2610**		43.7	35.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Selenium	ND		5.8	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Silver	ND		0.87	0.29	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Sodium	**245**		204	89.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Thallium	ND		8.7	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Vanadium	**30.1**		0.73	0.19	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1
Zinc	**101**		2.9	1.5	mg/Kg	☼	02/15/25 15:47	02/17/25 17:27	1

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Client Sample ID: SS-1
Lab Sample ID: 480-227359-2
Date Collected: 02/13/25 11:00
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 72.5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.027	0.0063	mg/Kg	☼	02/19/25 09:48	02/19/25 12:32	1

Client Sample ID: SS-2
Lab Sample ID: 480-227359-3
Date Collected: 02/13/25 11:15
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 72.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
bis (2-chloroisopropyl) ether	ND		230	46	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2,4,5-Trichlorophenol	ND		230	62	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2,4,6-Trichlorophenol	ND		230	46	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2,4-Dichlorophenol	ND		230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2,4-Dimethylphenol	ND		230	55	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2,4-Dinitrophenol	ND		2200	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2,4-Dinitrotoluene	ND		230	47	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2,6-Dinitrotoluene	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2-Chloronaphthalene	ND		230	38	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
1,4-Dioxane	ND		130	74	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2-Chlorophenol	ND		440	42	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2-Methylnaphthalene	ND		230	46	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2-Methylphenol	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2-Nitroaniline	ND		440	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
2-Nitrophenol	ND		230	64	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
3,3'-Dichlorobenzidine	ND		440	270	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
3-Nitroaniline	ND		440	63	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
4,6-Dinitro-2-methylphenol	ND		440	230	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
4-Bromophenyl phenyl ether	ND		230	32	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
4-Chloro-3-methylphenol	ND		230	56	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
4-Chloroaniline	ND		230	56	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
4-Chlorophenyl phenyl ether	ND		230	28	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
4-Methylphenol	ND		440	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
4-Nitroaniline	ND		440	120	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
4-Nitrophenol	ND		440	160	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Acenaphthene	ND		230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Acenaphthylene	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Acetophenone	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Anthracene	ND		230	56	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Atrazine	ND		230	79	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Benzaldehyde	ND		230	180	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Benzo[a]anthracene	**66**	**J**	230	23	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Benzo[a]pyrene	**57**	**J**	230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Benzo[b]fluoranthene	**77**	**J**	230	36	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Benzo[g,h,i]perylene	**35**	**J**	230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Benzo[k]fluoranthene	**30**	**J**	230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Bis(2-chloroethoxy)methane	ND		230	48	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Bis(2-chloroethyl)ether	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Bis(2-ethylhexyl) phthalate	ND		230	78	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Butyl benzyl phthalate	ND		230	38	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Caprolactam	ND		230	68	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Carbazole	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Chrysene	**67**	**J**	230	51	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Di-n-butyl phthalate	ND		230	39	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Di-n-octyl phthalate	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Dibenz(a,h)anthracene	ND		230	40	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Dibenzofuran	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Diethyl phthalate	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1

Client Sample ID: SS-2
Date Collected: 02/13/25 11:15
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-3
Matrix: Solid
Percent Solids: 72.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Fluoranthene	**140**	**J**	230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Fluorene	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Hexachlorobenzene	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Hexachlorobutadiene	ND		230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Hexachlorocyclopentadiene	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Hexachloroethane	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Indeno[1,2,3-cd]pyrene	**33**	**J**	230	28	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Isophorone	ND		230	48	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
N-Nitrosodi-n-propylamine	ND		230	39	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
N-Nitrosodiphenylamine	ND		230	190	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Naphthalene	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Nitrobenzene	ND		230	25	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Pentachlorophenol	ND		440	230	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Phenanthrene	**65**	**J**	230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Phenol	ND		230	35	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1
Pyrene	**100**	**J**	230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 20:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11000*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
Unknown	*490*	*T J*	*ug/Kg*	☼	*2.71*	*N/A*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
Unknown	*330*	*T J*	*ug/Kg*	☼	*3.23*	*N/A*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
Unknown	*2100*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
Unknown	*330*	*T J*	*ug/Kg*	☼	*11.05*	*N/A*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
Tridecane, 1-iodo-	*190*	*T J N*	*ug/Kg*	☼	*14.28*	*35599-77-0*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
1-Dotriacontanol	*330*	*T J N*	*ug/Kg*	☼	*14.30*	*6624-79-9*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
Heptacosane	*320*	*T J N*	*ug/Kg*	☼	*14.81*	*593-49-7*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
Cholestanol	*340*	*T J N*	*ug/Kg*	☼	*14.98*	*80-97-7*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,3,4,7,8,9,10,11,12,1	*580*	*T J N*	*ug/Kg*	☼	*15.08*	*1000210-38-4*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
Unknown	*950*	*T J*	*ug/Kg*	☼	*15.63*	*N/A*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
Unknown	*180*	*T J*	*ug/Kg*	☼	*15.83*	*N/A*	*02/25/25 07:05*	*02/25/25 20:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*26 - 143*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
2-Fluorobiphenyl	*58*		*50 - 121*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
2-Fluorophenol	*47*		*36 - 120*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
Nitrobenzene-d5	*50*		*40 - 121*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
p-Terphenyl-d14	*74*		*46 - 143*	*02/25/25 07:05*	*02/25/25 20:39*	*1*
Phenol-d5	*53*		*41 - 120*	*02/25/25 07:05*	*02/25/25 20:39*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.3	0.44	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
4,4'-DDE	ND		2.3	0.48	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
4,4'-DDT	ND		2.3	0.53	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Aldrin	ND		2.3	0.56	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
alpha-BHC	ND		2.3	0.41	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
cis-Chlordane	ND		2.3	1.1	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
beta-BHC	ND		2.3	0.41	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1

Client Sample ID: SS-2
Date Collected: 02/13/25 11:15
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-3
Matrix: Solid
Percent Solids: 72.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.3	0.42	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Dieldrin	ND		2.3	0.55	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Endosulfan I	ND		2.3	0.44	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Endosulfan II	ND		2.3	0.41	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Endosulfan sulfate	ND		2.3	0.42	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Endrin	ND		2.3	0.45	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Endrin aldehyde	ND		2.3	0.58	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Endrin ketone	ND		2.3	0.56	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
gamma-BHC (Lindane)	ND		2.3	0.42	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
trans-Chlordane	ND		2.3	0.72	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Heptachlor	ND		2.3	0.49	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Heptachlor epoxide	ND		2.3	0.59	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Methoxychlor	ND		2.3	0.46	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1
Toxaphene	ND		23	13	ug/Kg	☼	02/21/25 08:39	02/24/25 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*45 - 120*	*02/21/25 08:39*	*02/24/25 12:22*	*1*
DCB Decachlorobiphenyl	*102*		*45 - 120*	*02/21/25 08:39*	*02/24/25 12:22*	*1*
Tetrachloro-m-xylene	*61*		*30 - 124*	*02/21/25 08:39*	*02/24/25 12:22*	*1*
Tetrachloro-m-xylene	*71*		*30 - 124*	*02/21/25 08:39*	*02/24/25 12:22*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.32	0.062	mg/Kg	☼	02/17/25 07:16	02/18/25 13:49	1
PCB-1221	ND		0.32	0.062	mg/Kg	☼	02/17/25 07:16	02/18/25 13:49	1
PCB-1232	ND		0.32	0.062	mg/Kg	☼	02/17/25 07:16	02/18/25 13:49	1
PCB-1242	ND		0.32	0.062	mg/Kg	☼	02/17/25 07:16	02/18/25 13:49	1
PCB-1248	ND		0.32	0.062	mg/Kg	☼	02/17/25 07:16	02/18/25 13:49	1
PCB-1254	ND		0.32	0.15	mg/Kg	☼	02/17/25 07:16	02/18/25 13:49	1
PCB-1260	ND		0.32	0.15	mg/Kg	☼	02/17/25 07:16	02/18/25 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*60 - 154*	*02/17/25 07:16*	*02/18/25 13:49*	*1*
Tetrachloro-m-xylene	*94*		*60 - 154*	*02/17/25 07:16*	*02/18/25 13:49*	*1*
DCB Decachlorobiphenyl	*118*		*65 - 174*	*02/17/25 07:16*	*02/18/25 13:49*	*1*
DCB Decachlorobiphenyl	*99*		*65 - 174*	*02/17/25 07:16*	*02/18/25 13:49*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		22	7.2	ug/Kg	☼	02/24/25 06:56	02/26/25 13:47	1
Silvex (2,4,5-TP)	ND		22	8.1	ug/Kg	☼	02/24/25 06:56	02/26/25 13:47	1
2,4-D	ND		22	14	ug/Kg	☼	02/24/25 06:56	02/26/25 13:47	1
Dichlorprop	ND		22	11	ug/Kg	☼	02/24/25 06:56	02/26/25 13:47	1
Pentachlorophenol	ND		22	7.3	ug/Kg	☼	02/24/25 06:56	02/26/25 13:47	1
Picloram	ND		22	9.7	ug/Kg	☼	02/24/25 06:56	02/26/25 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*	*02/24/25 06:56*	*02/26/25 13:47*	*1*
2,4-Dichlorophenylacetic acid	*80*		*28 - 129*	*02/24/25 06:56*	*02/26/25 13:47*	*1*

Client Sample ID: SS-2
Date Collected: 02/13/25 11:15
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-3
Matrix: Solid
Percent Solids: 72.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.69	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluoropentanoic acid (PFPeA)	ND		0.34	0.086	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorohexanoic acid (PFHxA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluoroheptanoic acid (PFHpA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorooctanoic acid (PFOA)	**0.15**	**J**	0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorononanoic acid (PFNA)	**0.074**	**J**	0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorodecanoic acid (PFDA)	**0.045**	**J**	0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluoroundecanoic acid (PFUnA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorododecanoic acid (PFDoA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorooctanesulfonic acid (PFOS)	**0.22**		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorononanesulfonic acid (PFNS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.69	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.69	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.69	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.7	0.43	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.7	0.43	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.69	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.69	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.34	0.086	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.34	0.086	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.69	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.69	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1

Client Sample ID: SS-2
Date Collected: 02/13/25 11:15
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-3
Matrix: Solid
Percent Solids: 72.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.34	0.086	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.86	0.21	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.3	1.1	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.3	1.1	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.17	0.043	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.34	0.086	ug/Kg	☼	02/17/25 13:48	02/18/25 14:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95.8*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C5 PFPeA	*84.0*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C5 PFHxA	*88.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C4 PFHpA	*92.5*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C8 PFOA	*87.1*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C9 PFNA	*102*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C6 PFDA	*101*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C7 PFUnA	*105*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C2 PFTeDA	*91.7*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C3 PFBS	*78.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C3 PFHxS	*80.6*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C8 PFOS	*89.3*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C8 PFOSA	*88.2*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
d3-NMeFOSAA	*97.1*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
d5-NEtFOSAA	*114*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
M2-4:2 FTS	*194*	*5+	*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
M2-6:2 FTS	*121*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
M2-8:2 FTS	*141*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C3 HFPO-DA	*85.8*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
d7-N-MeFOSE-M	*82.6*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
d9-N-EtFOSE-M	*83.0*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
d5-NEtPFOSA	*75.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
D3-NMeFOSA	*85.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*
13C2-PFDoDA	*101*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:28*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19400**		13.5	11.6	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Antimony	ND		20.2	0.71	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Arsenic	**3.9**		2.7	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Barium	**111**		0.67	0.19	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Beryllium	**0.74**		0.27	0.054	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Cadmium	**0.51**		0.27	0.094	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Calcium	**8020**		67.3	36.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Chromium	**23.4**	**B**	0.67	0.48	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Cobalt	**8.7**		0.67	0.13	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Copper	**18.8**		1.3	0.77	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Iron	**22300**		13.5	11.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Lead	**37.0**		1.3	0.62	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Client Sample ID: SS-2
Lab Sample ID: 480-227359-3
Date Collected: 02/13/25 11:15
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 72.8

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	5300		26.9	11.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Manganese	653		1.3	0.38	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Nickel	20.5		6.7	0.34	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Potassium	3310		40.4	32.6	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Selenium	ND		5.4	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Silver	ND		0.81	0.27	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Sodium	208		189	82.6	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Thallium	ND		8.1	1.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Vanadium	36.9		0.67	0.18	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1
Zinc	120		2.7	1.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.026	0.0061	mg/Kg	☼	02/19/25 09:48	02/19/25 12:33	1

Client: Roux Environmental Engineering and Geology DPC
Project/Site: North Aud Block

Job ID: 480-227359-1

Client Sample ID: SS-BD
Date Collected: 02/13/25 11:20
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-4
Matrix: Solid
Percent Solids: 76.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		220	32	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
bis (2-chloroisopropyl) ether	ND		220	44	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2,4,5-Trichlorophenol	ND		220	60	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2,4,6-Trichlorophenol	ND		220	44	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2,4-Dichlorophenol	ND		220	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2,4-Dimethylphenol	ND		220	53	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2,4-Dinitrophenol	ND		2100	1000	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2,4-Dinitrotoluene	ND		220	45	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2,6-Dinitrotoluene	ND		220	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2-Chloronaphthalene	ND		220	36	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
1,4-Dioxane	ND		130	71	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2-Chlorophenol	ND		430	40	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2-Methylnaphthalene	ND		220	44	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2-Methylphenol	ND		220	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2-Nitroaniline	ND		430	32	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
2-Nitrophenol	ND		220	62	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
3,3'-Dichlorobenzidine	ND		430	260	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
3-Nitroaniline	ND		430	61	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
4,6-Dinitro-2-methylphenol	ND		430	220	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
4-Bromophenyl phenyl ether	ND		220	31	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
4-Chloro-3-methylphenol	ND		220	54	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
4-Chloroaniline	ND		220	54	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
4-Chlorophenyl phenyl ether	ND		220	27	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
4-Methylphenol	ND		430	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
4-Nitroaniline	ND		430	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
4-Nitrophenol	ND		430	150	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Acenaphthene	ND		220	32	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Acenaphthylene	ND		220	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Acetophenone	ND		220	30	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Anthracene	**68**	**J**	220	54	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Atrazine	ND		220	76	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Benzaldehyde	ND		220	170	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Benzo[a]anthracene	**250**		220	22	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Benzo[a]pyrene	**260**		220	32	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Benzo[b]fluoranthene	**310**		220	35	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Benzo[g,h,i]perylene	**160**	**J**	220	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Benzo[k]fluoranthene	**130**	**J**	220	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Bis(2-chloroethoxy)methane	ND		220	47	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Bis(2-chloroethyl)ether	ND		220	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Bis(2-ethylhexyl) phthalate	ND		220	75	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Butyl benzyl phthalate	ND		220	36	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Caprolactam	ND		220	66	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Carbazole	**26**	**J**	220	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Chrysene	**260**		220	49	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Di-n-butyl phthalate	ND		220	38	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Di-n-octyl phthalate	ND		220	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Dibenz(a,h)anthracene	**48**	**J**	220	39	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Dibenzofuran	ND		220	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Diethyl phthalate	ND		220	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1

Client Sample ID: SS-BD
Date Collected: 02/13/25 11:20
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-4
Matrix: Solid
Percent Solids: 76.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		220	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Fluoranthene	**530**		220	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Fluorene	ND		220	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Hexachlorobenzene	ND		220	30	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Hexachlorobutadiene	ND		220	32	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Hexachlorocyclopentadiene	ND		220	30	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Hexachloroethane	ND		220	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Indeno[1,2,3-cd]pyrene	**140**	**J**	220	27	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Isophorone	ND		220	47	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
N-Nitrosodi-n-propylamine	ND		220	38	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
N-Nitrosodiphenylamine	ND		220	180	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Naphthalene	ND		220	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Nitrobenzene	ND		220	25	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Pentachlorophenol	ND		430	220	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Phenanthrene	**270**		220	32	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Phenol	ND		220	34	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1
Pyrene	**420**		220	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3500*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/25/25 07:05*	*02/25/25 21:05*	*1*
Unknown	*240*	*T J*	*ug/Kg*	☼	*2.72*	*N/A*	*02/25/25 07:05*	*02/25/25 21:05*	*1*
Unknown	*2500*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/25/25 21:05*	*1*
1-Octadecanethiol	*190*	*T J N*	*ug/Kg*	☼	*13.78*	*2885-00-9*	*02/25/25 07:05*	*02/25/25 21:05*	*1*
17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,3,4,7,8,9,10,11,12,1.beta.-Sitosterol	*980*	*T J N*	*ug/Kg*	☼	*15.08*	*1000210-38-4*	*02/25/25 07:05*	*02/25/25 21:05*	*1*
	280	*T J N*	*ug/Kg*	☼	*15.77*	*83-46-5*	*02/25/25 07:05*	*02/25/25 21:05*	*1*
Unknown	*320*	*T J*	*ug/Kg*	☼	*16.59*	*N/A*	*02/25/25 07:05*	*02/25/25 21:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*26 - 143*	*02/25/25 07:05*	*02/25/25 21:05*	*1*
2-Fluorobiphenyl	*64*		*50 - 121*	*02/25/25 07:05*	*02/25/25 21:05*	*1*
2-Fluorophenol	*54*		*36 - 120*	*02/25/25 07:05*	*02/25/25 21:05*	*1*
Nitrobenzene-d5	*61*		*40 - 121*	*02/25/25 07:05*	*02/25/25 21:05*	*1*
p-Terphenyl-d14	*76*		*46 - 143*	*02/25/25 07:05*	*02/25/25 21:05*	*1*
Phenol-d5	*60*		*41 - 120*	*02/25/25 07:05*	*02/25/25 21:05*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		11	2.1	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
4,4'-DDE	ND		11	2.3	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
4,4'-DDT	ND		11	2.6	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
Aldrin	ND		11	2.7	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
alpha-BHC	ND		11	2.0	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
cis-Chlordane	ND		11	5.4	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
beta-BHC	ND		11	2.0	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
delta-BHC	ND		11	2.0	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
Dieldrin	ND		11	2.6	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
Endosulfan I	ND		11	2.1	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
Endosulfan II	ND		11	2.0	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
Endosulfan sulfate	ND		11	2.0	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5

Client Sample ID: SS-BD
Date Collected: 02/13/25 11:20
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-4
Matrix: Solid
Percent Solids: 76.0

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	ND		11	2.2	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
Endrin aldehyde	ND		11	2.8	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
Endrin ketone	ND		11	2.7	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
gamma-BHC (Lindane)	ND		11	2.0	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
trans-Chlordane	ND		11	3.5	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
Heptachlor	ND		11	2.4	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
Heptachlor epoxide	ND		11	2.8	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
Methoxychlor	ND		11	2.2	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5
Toxaphene	ND		110	64	ug/Kg	☼	02/21/25 08:39	02/24/25 12:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*45 - 120*	*02/21/25 08:39*	*02/24/25 12:42*	*5*
DCB Decachlorobiphenyl	*131*	*S1+*	*45 - 120*	*02/21/25 08:39*	*02/24/25 12:42*	*5*
Tetrachloro-m-xylene	*80*		*30 - 124*	*02/21/25 08:39*	*02/24/25 12:42*	*5*
Tetrachloro-m-xylene	*72*		*30 - 124*	*02/21/25 08:39*	*02/24/25 12:42*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	☼	02/17/25 07:16	02/18/25 14:07	1
PCB-1221	ND		0.25	0.049	mg/Kg	☼	02/17/25 07:16	02/18/25 14:07	1
PCB-1232	ND		0.25	0.049	mg/Kg	☼	02/17/25 07:16	02/18/25 14:07	1
PCB-1242	ND		0.25	0.049	mg/Kg	☼	02/17/25 07:16	02/18/25 14:07	1
PCB-1248	ND		0.25	0.049	mg/Kg	☼	02/17/25 07:16	02/18/25 14:07	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	02/17/25 07:16	02/18/25 14:07	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	02/17/25 07:16	02/18/25 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*60 - 154*	*02/17/25 07:16*	*02/18/25 14:07*	*1*
Tetrachloro-m-xylene	*98*		*60 - 154*	*02/17/25 07:16*	*02/18/25 14:07*	*1*
DCB Decachlorobiphenyl	*101*		*65 - 174*	*02/17/25 07:16*	*02/18/25 14:07*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*02/17/25 07:16*	*02/18/25 14:07*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		22	7.0	ug/Kg	☼	02/24/25 06:56	02/26/25 14:05	1
Silvex (2,4,5-TP)	ND		22	7.9	ug/Kg	☼	02/24/25 06:56	02/26/25 14:05	1
2,4-D	ND		22	14	ug/Kg	☼	02/24/25 06:56	02/26/25 14:05	1
Dichlorprop	ND		22	11	ug/Kg	☼	02/24/25 06:56	02/26/25 14:05	1
Pentachlorophenol	ND		22	7.1	ug/Kg	☼	02/24/25 06:56	02/26/25 14:05	1
Picloram	ND		22	9.4	ug/Kg	☼	02/24/25 06:56	02/26/25 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*67*		*28 - 129*	*02/24/25 06:56*	*02/26/25 14:05*	*1*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*02/24/25 06:56*	*02/26/25 14:05*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.64	0.16	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluoropentanoic acid (PFPeA)	ND		0.32	0.080	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorohexanoic acid (PFHxA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluoroheptanoic acid (PFHpA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1

Client Sample ID: SS-BD
Date Collected: 02/13/25 11:20
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-4
Matrix: Solid
Percent Solids: 76.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	**0.11**	**J**	0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorononanoic acid (PFNA)	**0.065**	**J I**	0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorodecanoic acid (PFDA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluoroundecanoic acid (PFUnA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorododecanoic acid (PFDoA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorooctanesulfonic acid (PFOS)	**0.21**		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorononanesulfonic acid (PFNS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.64	0.16	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.64	0.16	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.64	0.16	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.6	0.40	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.6	0.40	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.64	0.16	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.64	0.16	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.32	0.080	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.32	0.080	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.64	0.16	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.64	0.16	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.32	0.080	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.80	0.20	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.0	1.0	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1

Client Sample ID: SS-BD
Lab Sample ID: 480-227359-4
Date Collected: 02/13/25 11:20
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 76.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.0	1.0	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.16	0.040	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.32	0.080	ug/Kg	☼	02/17/25 13:48	02/18/25 14:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C5 PFPeA	*90.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C5 PFHxA	*97.2*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C4 PFHpA	*97.4*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C8 PFOA	*90.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C9 PFNA	*105*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C6 PFDA	*101*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C7 PFUnA	*105*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C2 PFTeDA	*91.1*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C3 PFBS	*87.8*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C3 PFHxS	*88.5*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C8 PFOS	*89.8*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C8 PFOSA	*91.6*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
d3-NMeFOSAA	*100*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
d5-NEtFOSAA	*117*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
M2-4:2 FTS	*196*	*5+	*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
M2-6:2 FTS	*128*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
M2-8:2 FTS	*147*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C3 HFPO-DA	*98.1*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
d7-N-MeFOSE-M	*79.6*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
d9-N-EtFOSE-M	*73.1*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
d5-NEtPFOSA	*79.4*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
D3-NMeFOSA	*88.3*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*
13C2-PFDoDA	*96.1*		*20 - 150*	*02/17/25 13:48*	*02/18/25 14:44*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17500**		13.8	11.9	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Antimony	ND		20.7	0.73	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Arsenic	**3.4**		2.8	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Barium	**101**		0.69	0.19	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Beryllium	**0.68**		0.28	0.055	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Cadmium	**0.50**		0.28	0.097	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Calcium	**7160**		69.1	37.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Chromium	**19.2**	**B**	0.69	0.50	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Cobalt	**7.5**		0.69	0.14	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Copper	**13.5**		1.4	0.79	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Iron	**19400**		13.8	11.7	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Lead	**30.2**		1.4	0.64	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Magnesium	**4580**		27.6	11.7	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Manganese	**584**		1.4	0.39	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Nickel	**16.3**		6.9	0.35	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Potassium	**2710**		41.5	33.5	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Selenium	ND		5.5	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1

Client Sample ID: SS-BD
Lab Sample ID: 480-227359-4
Date Collected: 02/13/25 11:20
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 76.0

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.83	0.28	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Sodium	**157**	**J**	193	84.7	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Thallium	ND		8.3	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Vanadium	**33.9**		0.69	0.18	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1
Zinc	**103**		2.8	1.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.051**		0.026	0.0060	mg/Kg	☼	02/19/25 09:48	02/19/25 12:38	1

Client Sample ID: SS-4
Date Collected: 02/13/25 13:00
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-5
Matrix: Solid
Percent Solids: 67.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		250	36	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
bis (2-chloroisopropyl) ether	ND		250	49	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2,4,5-Trichlorophenol	ND		250	67	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2,4,6-Trichlorophenol	ND		250	49	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2,4-Dichlorophenol	ND		250	26	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2,4-Dimethylphenol	ND		250	60	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2,4-Dinitrophenol	ND		2400	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2,4-Dinitrotoluene	ND		250	51	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2,6-Dinitrotoluene	ND		250	29	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2-Chloronaphthalene	ND		250	41	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
1,4-Dioxane	ND		150	80	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2-Chlorophenol	ND		480	45	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2-Methylnaphthalene	ND		250	49	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2-Methylphenol	ND		250	29	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2-Nitroaniline	ND		480	36	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
2-Nitrophenol	ND		250	70	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
3,3'-Dichlorobenzidine	ND		480	290	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
3-Nitroaniline	ND		480	68	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
4,6-Dinitro-2-methylphenol	ND		480	250	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
4-Bromophenyl phenyl ether	ND		250	35	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
4-Chloro-3-methylphenol	ND		250	61	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
4-Chloroaniline	ND		250	61	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
4-Chlorophenyl phenyl ether	ND		250	31	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
4-Methylphenol	ND		480	29	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
4-Nitroaniline	ND		480	130	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
4-Nitrophenol	ND		480	170	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Acenaphthene	ND		250	36	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Acenaphthylene	ND		250	32	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Acetophenone	ND		250	33	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Anthracene	**81**	**J**	250	61	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Atrazine	ND		250	86	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Benzaldehyde	ND		250	200	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Benzo[a]anthracene	**210**	**J**	250	25	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Benzo[a]pyrene	**200**	**J**	250	36	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Benzo[b]fluoranthene	**240**	**J**	250	39	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Benzo[g,h,i]perylene	**120**	**J**	250	26	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Benzo[k]fluoranthene	**110**	**J**	250	32	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Bis(2-chloroethoxy)methane	ND		250	52	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Bis(2-chloroethyl)ether	ND		250	32	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Bis(2-ethylhexyl) phthalate	ND		250	84	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Butyl benzyl phthalate	ND		250	41	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Caprolactam	ND		250	74	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Carbazole	**29**	**J**	250	29	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Chrysene	**210**	**J**	250	55	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Di-n-butyl phthalate	ND		250	42	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Di-n-octyl phthalate	ND		250	29	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Dibenz(a,h)anthracene	ND		250	44	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Dibenzofuran	ND		250	29	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Diethyl phthalate	ND		250	32	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1

Client Sample ID: SS-4
Date Collected: 02/13/25 13:00
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-5
Matrix: Solid
Percent Solids: 67.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		250	29	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Fluoranthene	**480**		250	26	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Fluorene	**33**	**J**	250	29	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Hexachlorobenzene	ND		250	33	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Hexachlorobutadiene	ND		250	36	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Hexachlorocyclopentadiene	ND		250	33	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Hexachloroethane	ND		250	32	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Indeno[1,2,3-cd]pyrene	**100**	**J**	250	31	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Isophorone	ND		250	52	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
N-Nitrosodi-n-propylamine	ND		250	42	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
N-Nitrosodiphenylamine	ND		250	200	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Naphthalene	ND		250	32	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Nitrobenzene	ND		250	28	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Pentachlorophenol	ND		480	250	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Phenanthrene	**340**		250	36	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Phenol	ND		250	38	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1
Pyrene	**370**		250	29	ug/Kg	☼	02/25/25 07:05	02/25/25 18:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1300*	*T J*	*ug/Kg*	☼	*1.69*	*N/A*	*02/25/25 07:05*	*02/25/25 18:52*	*1*
Unknown	*3200*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/25/25 07:05*	*02/25/25 18:52*	*1*
Unknown	*3600*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/25/25 18:52*	*1*
Unknown	*3700*	*T J*	*ug/Kg*	☼	*9.87*	*N/A*	*02/25/25 07:05*	*02/25/25 18:52*	*1*
17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,3,4,7,8,9,10,11,12,1	*250*	*T J N*	*ug/Kg*	☼	*15.08*	*1000210-38-4*	*02/25/25 07:05*	*02/25/25 18:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*105*		*26 - 143*	*02/25/25 07:05*	*02/25/25 18:52*	*1*
2-Fluorobiphenyl	*100*		*50 - 121*	*02/25/25 07:05*	*02/25/25 18:52*	*1*
2-Fluorophenol	*84*		*36 - 120*	*02/25/25 07:05*	*02/25/25 18:52*	*1*
Nitrobenzene-d5	*95*		*40 - 121*	*02/25/25 07:05*	*02/25/25 18:52*	*1*
p-Terphenyl-d14	*94*		*46 - 143*	*02/25/25 07:05*	*02/25/25 18:52*	*1*
Phenol-d5	*90*		*41 - 120*	*02/25/25 07:05*	*02/25/25 18:52*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		25	4.8	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
4,4'-DDE	ND		25	5.1	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
4,4'-DDT	ND		25	5.7	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
Aldrin	ND		25	6.0	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
alpha-BHC	ND		25	4.4	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
cis-Chlordane	ND		25	12	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
beta-BHC	ND		25	4.4	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
delta-BHC	ND		25	4.6	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
Dieldrin	ND		25	5.9	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
Endosulfan I	ND		25	4.7	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
Endosulfan II	ND		25	4.4	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
Endosulfan sulfate	ND		25	4.6	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
Endrin	ND		25	4.9	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
Endrin aldehyde	ND		25	6.3	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10

Client Sample ID: SS-4
Date Collected: 02/13/25 13:00
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-5
Matrix: Solid
Percent Solids: 67.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	ND		25	6.0	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
gamma-BHC (Lindane)	ND		25	4.5	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
trans-Chlordane	ND		25	7.8	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
Heptachlor	ND		25	5.3	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
Heptachlor epoxide	ND		25	6.3	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
Methoxychlor	ND		25	5.0	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10
Toxaphene	ND		250	140	ug/Kg	☼	02/21/25 08:39	02/24/25 11:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*45 - 120*	*02/21/25 08:39*	*02/24/25 11:24*	*10*
DCB Decachlorobiphenyl	*124*	*S1+*	*45 - 120*	*02/21/25 08:39*	*02/24/25 11:24*	*10*
Tetrachloro-m-xylene	*95*		*30 - 124*	*02/21/25 08:39*	*02/24/25 11:24*	*10*
Tetrachloro-m-xylene	*73*		*30 - 124*	*02/21/25 08:39*	*02/24/25 11:24*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.31	0.060	mg/Kg	☼	02/17/25 07:16	02/18/25 13:12	1
PCB-1221	ND		0.31	0.060	mg/Kg	☼	02/17/25 07:16	02/18/25 13:12	1
PCB-1232	ND		0.31	0.060	mg/Kg	☼	02/17/25 07:16	02/18/25 13:12	1
PCB-1242	ND		0.31	0.060	mg/Kg	☼	02/17/25 07:16	02/18/25 13:12	1
PCB-1248	ND		0.31	0.060	mg/Kg	☼	02/17/25 07:16	02/18/25 13:12	1
PCB-1254	ND		0.31	0.14	mg/Kg	☼	02/17/25 07:16	02/18/25 13:12	1
PCB-1260	ND		0.31	0.14	mg/Kg	☼	02/17/25 07:16	02/18/25 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*60 - 154*	*02/17/25 07:16*	*02/18/25 13:12*	*1*
Tetrachloro-m-xylene	*102*		*60 - 154*	*02/17/25 07:16*	*02/18/25 13:12*	*1*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*02/17/25 07:16*	*02/18/25 13:12*	*1*
DCB Decachlorobiphenyl	*103*		*65 - 174*	*02/17/25 07:16*	*02/18/25 13:12*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		24	7.7	ug/Kg	☼	02/24/25 06:56	02/26/25 13:10	1
Silvex (2,4,5-TP)	ND		24	8.6	ug/Kg	☼	02/24/25 06:56	02/26/25 13:10	1
2,4-D	ND		24	15	ug/Kg	☼	02/24/25 06:56	02/26/25 13:10	1
Dichlorprop	ND		24	12	ug/Kg	☼	02/24/25 06:56	02/26/25 13:10	1
Pentachlorophenol	ND		24	7.8	ug/Kg	☼	02/24/25 06:56	02/26/25 13:10	1
Picloram	ND		24	10	ug/Kg	☼	02/24/25 06:56	02/26/25 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*02/24/25 06:56*	*02/26/25 13:10*	*1*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*02/24/25 06:56*	*02/26/25 13:10*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.73	0.18	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluoropentanoic acid (PFPeA)	ND		0.37	0.092	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorohexanoic acid (PFHxA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluoroheptanoic acid (PFHpA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorooctanoic acid (PFOA)	**0.10**	**J**	0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorononanoic acid (PFNA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1

Client Sample ID: SS-4
Lab Sample ID: 480-227359-5
Date Collected: 02/13/25 13:00
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 67.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluoroundecanoic acid (PFUnA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorododecanoic acid (PFDoA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorooctanesulfonic acid (PFOS)	**0.20**		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorononanesulfonic acid (PFNS)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.73	0.18	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.73	0.18	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.73	0.18	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.8	0.46	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.8	0.46	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.73	0.18	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.73	0.18	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.37	0.092	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.37	0.092	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.73	0.18	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.73	0.18	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.37	0.092	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.92	0.23	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.6	1.1	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.6	1.1	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1

Client Sample ID: SS-4
Date Collected: 02/13/25 13:00
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-5
Matrix: Solid
Percent Solids: 67.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	ND		0.18	0.046	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.37	0.092	ug/Kg	☼	02/17/25 13:48	02/18/25 15:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*100*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C5 PFPeA	*83.2*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C5 PFHxA	*90.4*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C4 PFHpA	*92.6*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C8 PFOA	*85.8*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C9 PFNA	*101*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C6 PFDA	*97.8*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C7 PFUnA	*102*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C2 PFTeDA	*87.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C3 PFBS	*77.8*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C3 PFHxS	*80.1*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C8 PFOS	*82.1*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C8 PFOSA	*84.2*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
d3-NMeFOSAA	*92.5*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
d5-NEtFOSAA	*97.2*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
M2-4:2 FTS	*147*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
M2-6:2 FTS	*112*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
M2-8:2 FTS	*118*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C3 HFPO-DA	*91.5*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
d7-N-MeFOSE-M	*82.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
d9-N-EtFOSE-M	*78.3*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
d5-NEtPFOSA	*75.4*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
D3-NMeFOSA	*84.5*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*
13C2-PFDoDA	*94.2*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:01*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17500**	**F2**	14.3	12.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Antimony	ND	F1	21.5	0.76	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Arsenic	**4.3**		2.9	1.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Barium	**103**		0.72	0.20	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Beryllium	**0.78**		0.29	0.057	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Cadmium	**0.70**		0.29	0.10	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Calcium	**72700**	**F2**	71.6	38.6	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Chromium	**19.0**	**B**	0.72	0.52	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Cobalt	**8.0**		0.72	0.14	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Copper	**18.5**		1.4	0.82	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Iron	**18500**	**F2**	14.3	12.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Lead	**55.2**		1.4	0.66	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Magnesium	**11000**	**F1**	28.6	12.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Manganese	**788**	**F2**	1.4	0.40	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Nickel	**17.3**		7.2	0.36	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Potassium	**3460**	**F1**	42.9	34.7	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Selenium	ND		5.7	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Silver	ND		0.86	0.29	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Sodium	**263**		200	87.8	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Client Sample ID: SS-4
Lab Sample ID: 480-227359-5
Date Collected: 02/13/25 13:00
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 67.8

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		8.6	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Vanadium	**32.1**		0.72	0.19	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1
Zinc	**111**		2.9	1.5	mg/Kg	☼	02/15/25 15:47	02/17/25 17:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.071**		0.030	0.0069	mg/Kg	☼	02/19/25 09:48	02/19/25 12:40	1

Client Sample ID: RISB-5 0-1 ft
Lab Sample ID: 480-227359-6
Date Collected: 02/13/25 14:05
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 85.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		990	150	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
bis (2-chloroisopropyl) ether	ND		990	200	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2,4,5-Trichlorophenol	ND		990	270	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2,4,6-Trichlorophenol	ND		990	200	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2,4-Dichlorophenol	ND		990	100	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2,4-Dimethylphenol	ND		990	240	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2,4-Dinitrophenol	ND		9600	4500	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2,4-Dinitrotoluene	ND		990	200	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2,6-Dinitrotoluene	ND		990	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2-Chloronaphthalene	ND		990	160	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
1,4-Dioxane	ND		580	320	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2-Chlorophenol	ND		1900	180	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2-Methylnaphthalene	ND		990	200	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2-Methylphenol	ND		990	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2-Nitroaniline	ND		1900	150	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
2-Nitrophenol	ND		990	280	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
3,3'-Dichlorobenzidine	ND		1900	1200	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
3-Nitroaniline	ND		1900	270	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
4,6-Dinitro-2-methylphenol	ND		1900	990	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
4-Bromophenyl phenyl ether	ND		990	140	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
4-Chloro-3-methylphenol	ND		990	240	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
4-Chloroaniline	ND		990	240	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
4-Chlorophenyl phenyl ether	ND		990	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
4-Methylphenol	ND		1900	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
4-Nitroaniline	ND		1900	520	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
4-Nitrophenol	ND		1900	690	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Acenaphthene	ND		990	150	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Acenaphthylene	ND		990	130	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Acetophenone	ND		990	130	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Anthracene	ND		990	240	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Atrazine	ND		990	340	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Benzaldehyde	ND		990	780	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Benzo[a]anthracene	**330**	**J**	990	99	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Benzo[a]pyrene	**290**	**J**	990	150	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Benzo[b]fluoranthene	**380**	**J**	990	160	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Benzo[g,h,i]perylene	**180**	**J**	990	100	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Benzo[k]fluoranthene	**170**	**J**	990	130	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Bis(2-chloroethoxy)methane	ND		990	210	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Bis(2-chloroethyl)ether	ND		990	130	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Bis(2-ethylhexyl) phthalate	ND		990	340	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Butyl benzyl phthalate	ND		990	160	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Caprolactam	ND		990	300	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Carbazole	ND		990	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Chrysene	**330**	**J**	990	220	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Di-n-butyl phthalate	ND		990	170	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Di-n-octyl phthalate	ND		990	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Dibenz(a,h)anthracene	ND		990	170	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Dibenzofuran	ND		990	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Diethyl phthalate	ND		990	130	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5

Client Sample ID: RISB-5 0-1 ft
Lab Sample ID: 480-227359-6
Date Collected: 02/13/25 14:05
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 85.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		990	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Fluoranthene	**740**	**J**	990	100	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Fluorene	ND		990	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Hexachlorobenzene	ND		990	130	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Hexachlorobutadiene	ND		990	150	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Hexachlorocyclopentadiene	ND		990	130	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Hexachloroethane	ND		990	130	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Indeno[1,2,3-cd]pyrene	**150**	**J**	990	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Isophorone	ND		990	210	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
N-Nitrosodi-n-propylamine	ND		990	170	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
N-Nitrosodiphenylamine	ND		990	800	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Naphthalene	ND		990	130	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Nitrobenzene	ND		990	110	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Pentachlorophenol	ND		1900	990	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Phenanthrene	**480**	**J**	990	150	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Phenol	ND		990	150	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5
Pyrene	**530**	**J**	990	120	ug/Kg	☼	02/25/25 07:05	02/25/25 21:32	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1900*	*T J*	*ug/Kg*	☼	*3.48*	*N/A*	*02/25/25 07:05*	*02/25/25 21:32*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*57*		*26 - 143*	*02/25/25 07:05*	*02/25/25 21:32*	*5*
2-Fluorobiphenyl	*56*		*50 - 121*	*02/25/25 07:05*	*02/25/25 21:32*	*5*
2-Fluorophenol	*48*		*36 - 120*	*02/25/25 07:05*	*02/25/25 21:32*	*5*
Nitrobenzene-d5	*50*		*40 - 121*	*02/25/25 07:05*	*02/25/25 21:32*	*5*
p-Terphenyl-d14	*58*		*46 - 143*	*02/25/25 07:05*	*02/25/25 21:32*	*5*
Phenol-d5	*55*		*41 - 120*	*02/25/25 07:05*	*02/25/25 21:32*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		39	7.6	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
4,4'-DDE	ND		39	8.2	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
4,4'-DDT	ND		39	9.1	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
Aldrin	ND		39	9.6	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
alpha-BHC	ND		39	7.0	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
cis-Chlordane	ND		39	19	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
beta-BHC	ND		39	7.0	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
delta-BHC	ND		39	7.2	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
Dieldrin	ND		39	9.3	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
Endosulfan I	ND		39	7.5	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
Endosulfan II	ND		39	7.0	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
Endosulfan sulfate	ND		39	7.3	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
Endrin	ND		39	7.7	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
Endrin aldehyde	ND		39	9.9	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
Endrin ketone	ND		39	9.6	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
gamma-BHC (Lindane)	ND		39	7.1	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
trans-Chlordane	ND		39	12	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
Heptachlor	ND		39	8.4	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
Heptachlor epoxide	ND		39	10	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20

Client Sample ID: RISB-5 0-1 ft
Lab Sample ID: 480-227359-6

Date Collected: 02/13/25 14:05
Matrix: Solid

Date Received: 02/13/25 16:45
Percent Solids: 85.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		39	7.9	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20
Toxaphene	ND		390	230	ug/Kg	☼	02/21/25 08:39	02/24/25 13:02	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*02/21/25 08:39*	*02/24/25 13:02*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*02/21/25 08:39*	*02/24/25 13:02*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*02/21/25 08:39*	*02/24/25 13:02*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*02/21/25 08:39*	*02/24/25 13:02*	*20*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12900**		11.1	9.6	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Antimony	ND		16.6	0.59	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Arsenic	**4.3**		2.2	0.98	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Barium	**97.5**		0.55	0.16	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Beryllium	**0.53**		0.22	0.044	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Cadmium	**0.33**		0.22	0.078	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Calcium	**65700**		55.5	29.9	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Chromium	**18.1**	**B**	0.55	0.40	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Cobalt	**6.4**		0.55	0.11	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Copper	**31.7**		1.1	0.63	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Iron	**14900**		11.1	9.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Lead	**118**		1.1	0.51	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Magnesium	**20000**		22.2	9.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Manganese	**400**		1.1	0.31	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Nickel	**15.7**		5.5	0.28	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Potassium	**2960**		33.3	26.9	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Selenium	ND		4.4	0.89	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Silver	ND		0.67	0.22	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Sodium	**284**		155	68.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Thallium	ND		6.7	0.84	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Vanadium	**26.1**		0.55	0.14	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1
Zinc	**101**		2.2	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.023	0.0054	mg/Kg	☼	02/19/25 09:48	02/19/25 12:45	1

Client Sample ID: SS-3
Date Collected: 02/13/25 15:05
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-7
Matrix: Solid
Percent Solids: 85.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2,4-Dinitrophenol	ND		1900	890	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
1,4-Dioxane	ND		110	62	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2-Chlorophenol	ND		370	35	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2-Methylphenol	ND		190	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
3,3'-Dichlorobenzidine	ND		370	230	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
4-Methylphenol	ND		370	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Acenaphthene	ND		190	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Acenaphthylene	ND		190	25	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Acetophenone	ND		190	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Anthracene	ND		190	48	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Atrazine	ND		190	67	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Benzaldehyde	ND		190	150	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Benzo[a]anthracene	**65**	**J**	190	19	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Benzo[a]pyrene	**58**	**J**	190	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Benzo[b]fluoranthene	**73**	**J**	190	31	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Benzo[g,h,i]perylene	**33**	**J**	190	20	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Benzo[k]fluoranthene	**29**	**J**	190	25	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Caprolactam	ND		190	58	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Carbazole	ND		190	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Chrysene	**61**	**J**	190	43	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Dibenzofuran	ND		190	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1

Client Sample ID: SS-3
Date Collected: 02/13/25 15:05
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-7
Matrix: Solid
Percent Solids: 85.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		190	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Fluoranthene	**140**	**J**	190	20	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Fluorene	ND		190	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Hexachloroethane	ND		190	25	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Indeno[1,2,3-cd]pyrene	**29**	**J**	190	24	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Isophorone	ND		190	41	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Naphthalene	ND		190	25	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Nitrobenzene	ND		190	22	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Phenanthrene	**87**	**J**	190	28	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Phenol	ND		190	29	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1
Pyrene	**100**	**J**	190	23	ug/Kg	☼	02/25/25 07:05	02/25/25 21:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2200*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/25/25 07:05*	*02/25/25 21:59*	*1*
Unknown	*1300*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/25/25 21:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*26 - 143*	*02/25/25 07:05*	*02/25/25 21:59*	*1*
2-Fluorobiphenyl	*46*	*S1-*	*50 - 121*	*02/25/25 07:05*	*02/25/25 21:59*	*1*
2-Fluorophenol	*38*		*36 - 120*	*02/25/25 07:05*	*02/25/25 21:59*	*1*
Nitrobenzene-d5	*43*		*40 - 121*	*02/25/25 07:05*	*02/25/25 21:59*	*1*
p-Terphenyl-d14	*69*		*46 - 143*	*02/25/25 07:05*	*02/25/25 21:59*	*1*
Phenol-d5	*40*	*S1-*	*41 - 120*	*02/25/25 07:05*	*02/25/25 21:59*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
alpha-BHC	ND		1.9	0.34	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
cis-Chlordane	ND		1.9	0.95	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
delta-BHC	ND		1.9	0.35	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
Endrin	ND		1.9	0.38	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
trans-Chlordane	ND		1.9	0.61	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
Heptachlor	ND		1.9	0.41	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1

Client Sample ID: SS-3
Date Collected: 02/13/25 15:05
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-7
Matrix: Solid
Percent Solids: 85.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1
Toxaphene	ND		19	11	ug/Kg	☼	02/21/25 08:39	02/24/25 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*45 - 120*	*02/21/25 08:39*	*02/24/25 13:21*	*1*
DCB Decachlorobiphenyl	*108*		*45 - 120*	*02/21/25 08:39*	*02/24/25 13:21*	*1*
Tetrachloro-m-xylene	*69*		*30 - 124*	*02/21/25 08:39*	*02/24/25 13:21*	*1*
Tetrachloro-m-xylene	*80*		*30 - 124*	*02/21/25 08:39*	*02/24/25 13:21*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.038	mg/Kg	☼	02/17/25 07:16	02/18/25 14:26	1
PCB-1221	ND		0.20	0.038	mg/Kg	☼	02/17/25 07:16	02/18/25 14:26	1
PCB-1232	ND		0.20	0.038	mg/Kg	☼	02/17/25 07:16	02/18/25 14:26	1
PCB-1242	ND		0.20	0.038	mg/Kg	☼	02/17/25 07:16	02/18/25 14:26	1
PCB-1248	ND		0.20	0.038	mg/Kg	☼	02/17/25 07:16	02/18/25 14:26	1
PCB-1254	ND		0.20	0.092	mg/Kg	☼	02/17/25 07:16	02/18/25 14:26	1
PCB-1260	ND		0.20	0.092	mg/Kg	☼	02/17/25 07:16	02/18/25 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*60 - 154*	*02/17/25 07:16*	*02/18/25 14:26*	*1*
Tetrachloro-m-xylene	*94*		*60 - 154*	*02/17/25 07:16*	*02/18/25 14:26*	*1*
DCB Decachlorobiphenyl	*126*		*65 - 174*	*02/17/25 07:16*	*02/18/25 14:26*	*1*
DCB Decachlorobiphenyl	*104*		*65 - 174*	*02/17/25 07:16*	*02/18/25 14:26*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.0	ug/Kg	☼	02/24/25 06:56	02/26/25 14:24	1
Silvex (2,4,5-TP)	ND		19	6.8	ug/Kg	☼	02/24/25 06:56	02/26/25 14:24	1
2,4-D	ND		19	12	ug/Kg	☼	02/24/25 06:56	02/26/25 14:24	1
Dichlorprop	ND		19	9.4	ug/Kg	☼	02/24/25 06:56	02/26/25 14:24	1
Pentachlorophenol	ND		19	6.2	ug/Kg	☼	02/24/25 06:56	02/26/25 14:24	1
Picloram	ND		19	8.1	ug/Kg	☼	02/24/25 06:56	02/26/25 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*	*02/24/25 06:56*	*02/26/25 14:24*	*1*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*02/24/25 06:56*	*02/26/25 14:24*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.58	0.15	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluoropentanoic acid (PFPeA)	ND		0.29	0.073	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorohexanoic acid (PFHxA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluoroheptanoic acid (PFHpA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorooctanoic acid (PFOA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorononanoic acid (PFNA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorodecanoic acid (PFDA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluoroundecanoic acid (PFUnA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorododecanoic acid (PFDoA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1

Client Sample ID: SS-3
Date Collected: 02/13/25 15:05
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-7
Matrix: Solid
Percent Solids: 85.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeDA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorononanesulfonic acid (PFNS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.58	0.15	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.58	0.15	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.58	0.15	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.5	0.36	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.5	0.36	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.58	0.15	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.58	0.15	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.29	0.073	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.29	0.073	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.58	0.15	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.58	0.15	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.29	0.073	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.73	0.18	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.6	0.91	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.6	0.91	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.15	0.036	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.29	0.073	ug/Kg	☼	02/17/25 13:48	02/18/25 15:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*106*		*20 - 150*	*02/17/25 13:48*	*02/18/25 15:51*	*1*

Client Sample ID: SS-3
Lab Sample ID: 480-227359-7
Date Collected: 02/13/25 15:05
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 85.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	94.2		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C5 PFHxA	100		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C4 PFHpA	104		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C8 PFOA	93.6		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C9 PFNA	110		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C6 PFDA	103		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C7 PFUnA	107		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C2 PFTeDA	94.3		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C3 PFBS	97.4		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C3 PFHxS	96.7		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C8 PFOS	94.2		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C8 PFOSA	90.9		20 - 150	02/17/25 13:48	02/18/25 15:51	1
d3-NMeFOSAA	94.7		20 - 150	02/17/25 13:48	02/18/25 15:51	1
d5-NEtFOSAA	119		20 - 150	02/17/25 13:48	02/18/25 15:51	1
M2-4:2 FTS	124		20 - 150	02/17/25 13:48	02/18/25 15:51	1
M2-6:2 FTS	133		20 - 150	02/17/25 13:48	02/18/25 15:51	1
M2-8:2 FTS	138		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C3 HFPO-DA	104		20 - 150	02/17/25 13:48	02/18/25 15:51	1
d7-N-MeFOSE-M	88.5		20 - 150	02/17/25 13:48	02/18/25 15:51	1
d9-N-EtFOSE-M	87.3		20 - 150	02/17/25 13:48	02/18/25 15:51	1
d5-NEtPFOSA	71.1		20 - 150	02/17/25 13:48	02/18/25 15:51	1
D3-NMeFOSA	78.3		20 - 150	02/17/25 13:48	02/18/25 15:51	1
13C2-PFDoDA	101		20 - 150	02/17/25 13:48	02/18/25 15:51	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5250**		11.8	10.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Antimony	ND		17.7	0.63	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Arsenic	ND		2.4	1.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Barium	**30.6**		0.59	0.17	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Beryllium	**0.21**	**J**	0.24	0.047	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Cadmium	**0.11**	**J**	0.24	0.083	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Calcium	**54000**		59.1	31.9	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Chromium	**6.9**	**B**	0.59	0.43	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Cobalt	**2.4**		0.59	0.12	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Copper	**8.1**		1.2	0.67	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Iron	**6590**		11.8	10.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Lead	**9.5**		1.2	0.54	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Magnesium	**27300**		23.6	10.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Manganese	**159**		1.2	0.33	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Nickel	**6.7**		5.9	0.30	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Potassium	**1590**		35.5	28.7	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Selenium	ND		4.7	0.95	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Silver	ND		0.71	0.24	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Sodium	**245**		166	72.5	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Thallium	ND		7.1	0.90	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Vanadium	**10.6**		0.59	0.15	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1
Zinc	**35.7**		2.4	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:50	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Client Sample ID: SS-3
Lab Sample ID: 480-227359-7
Date Collected: 02/13/25 15:05
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 85.6

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.022	0.0051	mg/Kg	☼	02/19/25 09:48	02/19/25 12:46	1

Client Sample ID: SS-9
Date Collected: 02/13/25 15:15
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-8
Matrix: Solid
Percent Solids: 72.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
bis (2-chloroisopropyl) ether	ND		230	46	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2,4,5-Trichlorophenol	ND		230	62	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2,4,6-Trichlorophenol	ND		230	46	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2,4-Dichlorophenol	ND		230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2,4-Dimethylphenol	ND		230	55	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2,4-Dinitrophenol	ND		2200	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2,4-Dinitrotoluene	ND		230	47	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2,6-Dinitrotoluene	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2-Chloronaphthalene	ND		230	38	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
1,4-Dioxane	ND		130	74	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2-Chlorophenol	ND		440	42	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2-Methylnaphthalene	ND		230	46	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2-Methylphenol	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2-Nitroaniline	ND		440	34	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
2-Nitrophenol	ND		230	65	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
3,3'-Dichlorobenzidine	ND		440	270	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
3-Nitroaniline	ND		440	63	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
4,6-Dinitro-2-methylphenol	ND		440	230	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
4-Bromophenyl phenyl ether	ND		230	32	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
4-Chloro-3-methylphenol	ND		230	57	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
4-Chloroaniline	ND		230	57	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
4-Chlorophenyl phenyl ether	ND		230	28	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
4-Methylphenol	ND		440	27	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
4-Nitroaniline	ND		440	120	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
4-Nitrophenol	ND		440	160	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Acenaphthene	ND		230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Acenaphthylene	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Acetophenone	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Anthracene	ND		230	57	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Atrazine	ND		230	79	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Benzaldehyde	ND		230	180	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Benzo[a]anthracene	**59**	**J**	230	23	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Benzo[a]pyrene	**60**	**J**	230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Benzo[b]fluoranthene	**82**	**J**	230	36	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Benzo[g,h,i]perylene	**42**	**J**	230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Benzo[k]fluoranthene	**35**	**J**	230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Bis(2-chloroethoxy)methane	ND		230	48	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Bis(2-chloroethyl)ether	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Bis(2-ethylhexyl) phthalate	ND		230	78	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Butyl benzyl phthalate	ND		230	38	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Caprolactam	ND		230	69	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Carbazole	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Chrysene	**63**	**J**	230	51	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Di-n-butyl phthalate	ND		230	39	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Di-n-octyl phthalate	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Dibenz(a,h)anthracene	ND		230	40	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Dibenzofuran	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Diethyl phthalate	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1

Client Sample ID: SS-9
Date Collected: 02/13/25 15:15
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-8
Matrix: Solid
Percent Solids: 72.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Fluoranthene	**120**	**J**	230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Fluorene	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Hexachlorobenzene	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Hexachlorobutadiene	ND		230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Hexachlorocyclopentadiene	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Hexachloroethane	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Indeno[1,2,3-cd]pyrene	**38**	**J**	230	28	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Isophorone	ND		230	48	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
N-Nitrosodi-n-propylamine	ND		230	39	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
N-Nitrosodiphenylamine	ND		230	190	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Naphthalene	ND		230	30	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Nitrobenzene	ND		230	26	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Pentachlorophenol	ND		440	230	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Phenanthrene	**55**	**J**	230	34	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Phenol	ND		230	35	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1
Pyrene	**97**	**J**	230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 22:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3200*	*T J*	*ug/Kg*	☼	*1.99*	*N/A*	*02/25/25 07:05*	*02/25/25 22:26*	*1*
Unknown	*2500*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/25/25 22:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*26 - 143*	*02/25/25 07:05*	*02/25/25 22:26*	*1*
2-Fluorobiphenyl	*70*		*50 - 121*	*02/25/25 07:05*	*02/25/25 22:26*	*1*
2-Fluorophenol	*55*		*36 - 120*	*02/25/25 07:05*	*02/25/25 22:26*	*1*
Nitrobenzene-d5	*61*		*40 - 121*	*02/25/25 07:05*	*02/25/25 22:26*	*1*
p-Terphenyl-d14	*79*		*46 - 143*	*02/25/25 07:05*	*02/25/25 22:26*	*1*
Phenol-d5	*60*		*41 - 120*	*02/25/25 07:05*	*02/25/25 22:26*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.2	0.44	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
4,4'-DDE	ND		2.2	0.47	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
4,4'-DDT	ND		2.2	0.52	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
Aldrin	ND		2.2	0.55	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
alpha-BHC	ND		2.2	0.40	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
cis-Chlordane	ND		2.2	1.1	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
beta-BHC	**1.8**	**J**	2.2	0.40	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
delta-BHC	ND		2.2	0.42	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
Dieldrin	ND		2.2	0.54	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
Endosulfan I	ND		2.2	0.43	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
Endosulfan II	ND		2.2	0.40	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
Endosulfan sulfate	ND		2.2	0.42	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
Endrin	ND		2.2	0.44	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
Endrin aldehyde	ND		2.2	0.57	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
Endrin ketone	ND		2.2	0.55	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
gamma-BHC (Lindane)	ND		2.2	0.41	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
trans-Chlordane	ND		2.2	0.71	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
Heptachlor	ND		2.2	0.48	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1

Client Sample ID: SS-9
Date Collected: 02/13/25 15:15
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-8
Matrix: Solid
Percent Solids: 72.9

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		2.2	0.58	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
Methoxychlor	ND		2.2	0.46	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1
Toxaphene	ND		22	13	ug/Kg	☼	02/21/25 08:39	02/24/25 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*45 - 120*	*02/21/25 08:39*	*02/24/25 13:41*	*1*
DCB Decachlorobiphenyl	*123*	*S1+*	*45 - 120*	*02/21/25 08:39*	*02/24/25 13:41*	*1*
Tetrachloro-m-xylene	*78*		*30 - 124*	*02/21/25 08:39*	*02/24/25 13:41*	*1*
Tetrachloro-m-xylene	*84*		*30 - 124*	*02/21/25 08:39*	*02/24/25 13:41*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.33	0.064	mg/Kg	☼	02/17/25 07:16	02/18/25 14:44	1
PCB-1221	ND		0.33	0.064	mg/Kg	☼	02/17/25 07:16	02/18/25 14:44	1
PCB-1232	ND		0.33	0.064	mg/Kg	☼	02/17/25 07:16	02/18/25 14:44	1
PCB-1242	ND		0.33	0.064	mg/Kg	☼	02/17/25 07:16	02/18/25 14:44	1
PCB-1248	ND		0.33	0.064	mg/Kg	☼	02/17/25 07:16	02/18/25 14:44	1
PCB-1254	ND		0.33	0.15	mg/Kg	☼	02/17/25 07:16	02/18/25 14:44	1
PCB-1260	ND		0.33	0.15	mg/Kg	☼	02/17/25 07:16	02/18/25 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*60 - 154*	*02/17/25 07:16*	*02/18/25 14:44*	*1*
Tetrachloro-m-xylene	*108*		*60 - 154*	*02/17/25 07:16*	*02/18/25 14:44*	*1*
DCB Decachlorobiphenyl	*137*		*65 - 174*	*02/17/25 07:16*	*02/18/25 14:44*	*1*
DCB Decachlorobiphenyl	*112*		*65 - 174*	*02/17/25 07:16*	*02/18/25 14:44*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		23	7.2	ug/Kg	☼	02/24/25 06:56	02/26/25 14:42	1
Silvex (2,4,5-TP)	ND		23	8.1	ug/Kg	☼	02/24/25 06:56	02/26/25 14:42	1
2,4-D	ND		23	14	ug/Kg	☼	02/24/25 06:56	02/26/25 14:42	1
Dichlorprop	ND		23	11	ug/Kg	☼	02/24/25 06:56	02/26/25 14:42	1
Pentachlorophenol	ND		23	7.4	ug/Kg	☼	02/24/25 06:56	02/26/25 14:42	1
Picloram	ND		23	9.8	ug/Kg	☼	02/24/25 06:56	02/26/25 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*28 - 129*	*02/24/25 06:56*	*02/26/25 14:42*	*1*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*	*02/24/25 06:56*	*02/26/25 14:42*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluoropentanoic acid (PFPeA)	ND		0.34	0.084	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorohexanoic acid (PFHxA)	**0.077**	**J**	0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluoroheptanoic acid (PFHpA)	**0.057**	**J**	0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorooctanoic acid (PFOA)	**0.28**		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorononanoic acid (PFNA)	**0.076**	**J**	0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorodecanoic acid (PFDA)	**0.059**	**J**	0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluoroundecanoic acid (PFUnA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorododecanoic acid (PFDoA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1

Client Sample ID: SS-9
Date Collected: 02/13/25 15:15
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-8
Matrix: Solid
Percent Solids: 72.9

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeDA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorobutanesulfonic acid (PFBS)	**0.084**	**J**	0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorooctanesulfonic acid (PFOS)	**0.37**		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorononanesulfonic acid (PFNS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.7	0.42	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.7	0.42	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.34	0.084	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.34	0.084	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.34	0.084	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.84	0.21	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.2	1.1	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.2	1.1	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.34	0.084	ug/Kg	☼	02/17/25 13:48	02/18/25 16:08	1

Client Sample ID: SS-9
Date Collected: 02/13/25 15:15
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-8
Matrix: Solid
Percent Solids: 72.9

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	99.4		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C5 PFPeA	87.7		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C5 PFHxA	95.6		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C4 PFHpA	97.2		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C8 PFOA	90.2		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C9 PFNA	102		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C6 PFDA	96.5		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C7 PFUnA	104		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C2 PFTeDA	89.7		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C3 PFBS	84.8		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C3 PFHxS	83.6		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C8 PFOS	89.5		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C8 PFOSA	93.2		20 - 150	02/17/25 13:48	02/18/25 16:08	1
d3-NMeFOSAA	104		20 - 150	02/17/25 13:48	02/18/25 16:08	1
d5-NEtFOSAA	100		20 - 150	02/17/25 13:48	02/18/25 16:08	1
M2-4:2 FTS	232	*5+	20 - 150	02/17/25 13:48	02/18/25 16:08	1
M2-6:2 FTS	126		20 - 150	02/17/25 13:48	02/18/25 16:08	1
M2-8:2 FTS	147		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C3 HFPO-DA	93.3		20 - 150	02/17/25 13:48	02/18/25 16:08	1
d7-N-MeFOSE-M	87.0		20 - 150	02/17/25 13:48	02/18/25 16:08	1
d9-N-EtFOSE-M	84.9		20 - 150	02/17/25 13:48	02/18/25 16:08	1
d5-NEtPFOSA	77.8		20 - 150	02/17/25 13:48	02/18/25 16:08	1
D3-NMeFOSA	87.2		20 - 150	02/17/25 13:48	02/18/25 16:08	1
13C2-PFDoDA	94.6		20 - 150	02/17/25 13:48	02/18/25 16:08	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17500**		14.1	12.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Antimony	ND		21.2	0.75	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Arsenic	**4.0**		2.8	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Barium	**186**		0.71	0.20	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Beryllium	**0.69**		0.28	0.056	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Cadmium	**0.38**		0.28	0.099	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Calcium	**24700**		70.6	38.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Chromium	**20.0**	**B**	0.71	0.51	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Cobalt	**8.0**		0.71	0.14	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Copper	**18.4**		1.4	0.80	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Iron	**19100**		14.1	12.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Lead	**53.3**		1.4	0.65	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Magnesium	**7900**		28.2	12.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Manganese	**495**		1.4	0.40	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Nickel	**18.3**		7.1	0.35	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Potassium	**3060**		42.4	34.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Selenium	ND		5.6	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Silver	ND		0.85	0.28	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Sodium	**193**	**J**	198	86.6	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Thallium	ND		8.5	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Vanadium	**33.2**		0.71	0.18	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1
Zinc	**109**		2.8	1.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:52	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Client Sample ID: SS-9
Lab Sample ID: 480-227359-8
Date Collected: 02/13/25 15:15
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 72.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.028	0.0064	mg/Kg	☼	02/19/25 09:48	02/19/25 12:47	1

Client Sample ID: SS-10
Lab Sample ID: 480-227359-9
Date Collected: 02/13/25 15:30
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 3.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		9300	1400	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
bis (2-chloroisopropyl) ether	ND		9300	1900	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2,4,5-Trichlorophenol	ND		9300	2500	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2,4,6-Trichlorophenol	ND		9300	1900	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2,4-Dichlorophenol	ND		9300	980	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2,4-Dimethylphenol	ND		9300	2200	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2,4-Dinitrophenol	ND		91000	43000	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2,4-Dinitrotoluene	ND		9300	1900	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2,6-Dinitrotoluene	ND		9300	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2-Chloronaphthalene	ND		9300	1500	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
1,4-Dioxane	ND		5500	3000	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2-Chlorophenol	ND		18000	1700	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2-Methylnaphthalene	ND		9300	1900	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2-Methylphenol	ND		9300	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2-Nitroaniline	ND		18000	1400	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
2-Nitrophenol	ND		9300	2600	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
3,3'-Dichlorobenzidine	ND		18000	11000	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
3-Nitroaniline	ND		18000	2600	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
4,6-Dinitro-2-methylphenol	ND		18000	9300	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
4-Bromophenyl phenyl ether	ND		9300	1300	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
4-Chloro-3-methylphenol	ND		9300	2300	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
4-Chloroaniline	ND		9300	2300	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
4-Chlorophenyl phenyl ether	ND		9300	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
4-Methylphenol	ND		18000	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
4-Nitroaniline	ND		18000	4900	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
4-Nitrophenol	ND		18000	6500	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Acenaphthene	ND		9300	1400	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Acenaphthylene	ND		9300	1200	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Acetophenone	ND		9300	1300	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Anthracene	**2300**	**J**	9300	2300	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Atrazine	ND		9300	3200	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Benzaldehyde	ND		9300	7400	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Benzo[a]anthracene	**6300**	**J**	9300	930	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Benzo[a]pyrene	**5800**	**J**	9300	1400	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Benzo[b]fluoranthene	**7400**	**J**	9300	1500	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Benzo[g,h,i]perylene	**3400**	**J**	9300	980	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Benzo[k]fluoranthene	**3200**	**J**	9300	1200	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Bis(2-chloroethoxy)methane	ND		9300	2000	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Bis(2-chloroethyl)ether	ND		9300	1200	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Bis(2-ethylhexyl) phthalate	ND		9300	3200	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Butyl benzyl phthalate	ND		9300	1500	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Caprolactam	ND		9300	2800	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Carbazole	ND		9300	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Chrysene	**6400**	**J**	9300	2100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Di-n-butyl phthalate	ND		9300	1600	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Di-n-octyl phthalate	ND		9300	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Dibenz(a,h)anthracene	ND		9300	1600	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Dibenzofuran	ND		9300	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Diethyl phthalate	ND		9300	1200	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1

Client Sample ID: SS-10
Date Collected: 02/13/25 15:30
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-9
Matrix: Solid
Percent Solids: 3.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9300	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Fluoranthene	**14000**		9300	980	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Fluorene	ND		9300	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Hexachlorobenzene	ND		9300	1300	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Hexachlorobutadiene	ND		9300	1400	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Hexachlorocyclopentadiene	ND		9300	1300	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Hexachloroethane	ND		9300	1200	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Indeno[1,2,3-cd]pyrene	**3300**	**J**	9300	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Isophorone	ND		9300	2000	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
N-Nitrosodi-n-propylamine	ND		9300	1600	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
N-Nitrosodiphenylamine	ND		9300	7500	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Naphthalene	ND		9300	1200	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Nitrobenzene	ND		9300	1000	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Pentachlorophenol	ND		18000	9300	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Phenanthrene	**9100**	**J**	9300	1400	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Phenol	ND		9300	1400	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1
Pyrene	**9900**		9300	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 22:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*26000*	*T J*	*ug/Kg*	☼	*1.69*	*N/A*	*02/25/25 07:05*	*02/25/25 22:52*	*1*
Unknown	*130000*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/25/25 07:05*	*02/25/25 22:52*	*1*
Unknown	*75000*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/25/25 22:52*	*1*
Unknown	*120000*	*T J*	*ug/Kg*	☼	*9.87*	*N/A*	*02/25/25 07:05*	*02/25/25 22:52*	*1*
Octadecane	*7500*	*T J N*	*ug/Kg*	☼	*10.89*	*593-45-3*	*02/25/25 07:05*	*02/25/25 22:52*	*1*
Unknown	*79000*	*T J*	*ug/Kg*	☼	*12.50*	*N/A*	*02/25/25 07:05*	*02/25/25 22:52*	*1*
Unknown	*7600*	*T J*	*ug/Kg*	☼	*13.67*	*N/A*	*02/25/25 07:05*	*02/25/25 22:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*57*		*26 - 143*	*02/25/25 07:05*	*02/25/25 22:52*	*1*
2-Fluorobiphenyl	*59*		*50 - 121*	*02/25/25 07:05*	*02/25/25 22:52*	*1*
2-Fluorophenol	*48*		*36 - 120*	*02/25/25 07:05*	*02/25/25 22:52*	*1*
Nitrobenzene-d5	*54*		*40 - 121*	*02/25/25 07:05*	*02/25/25 22:52*	*1*
p-Terphenyl-d14	*56*		*46 - 143*	*02/25/25 07:05*	*02/25/25 22:52*	*1*
Phenol-d5	*49*		*41 - 120*	*02/25/25 07:05*	*02/25/25 22:52*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		130	26	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
4,4'-DDE	ND		130	28	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
4,4'-DDT	ND		130	31	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
Aldrin	ND		130	33	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
alpha-BHC	ND		130	24	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
cis-Chlordane	ND		130	66	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
beta-BHC	ND		130	24	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
delta-BHC	ND		130	25	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
Dieldrin	ND		130	32	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
Endosulfan I	ND		130	25	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
Endosulfan II	ND		130	24	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
Endosulfan sulfate	ND		130	25	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
Endrin	ND		130	26	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1

Client Sample ID: SS-10
Date Collected: 02/13/25 15:30
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-9
Matrix: Solid
Percent Solids: 3.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		130	34	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
Endrin ketone	ND		130	33	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
gamma-BHC (Lindane)	ND		130	24	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
trans-Chlordane	ND		130	42	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
Heptachlor	ND		130	29	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
Heptachlor epoxide	ND		130	34	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
Methoxychlor	ND		130	27	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1
Toxaphene	ND		1300	770	ug/Kg	☼	02/21/25 08:39	02/24/25 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*45 - 120*	*02/21/25 08:39*	*02/24/25 14:01*	*1*
DCB Decachlorobiphenyl	*112*		*45 - 120*	*02/21/25 08:39*	*02/24/25 14:01*	*1*
Tetrachloro-m-xylene	*58*		*30 - 124*	*02/21/25 08:39*	*02/24/25 14:01*	*1*
Tetrachloro-m-xylene	*69*		*30 - 124*	*02/21/25 08:39*	*02/24/25 14:01*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**56300**		287	248	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Antimony	ND		431	15.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Arsenic	ND		57.5	25.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Barium	**507**		14.4	4.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Beryllium	**2.7**	**J**	5.7	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Cadmium	**2.8**	**J**	5.7	2.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Calcium	**1170000**		1440	776	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Chromium	**113**	**B**	14.4	10.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Cobalt	**19.5**		14.4	2.9	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Copper	**154**		28.7	16.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Iron	**78100**		287	244	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Lead	**342**		28.7	13.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Magnesium	**83300**		575	244	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Manganese	**1930**		28.7	8.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Nickel	**78.8**	**J**	144	7.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Potassium	**16700**		862	697	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Selenium	ND		115	23.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Silver	ND		17.2	5.7	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Sodium	**32300**		4020	1760	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Thallium	ND		172	21.8	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Vanadium	**123**		14.4	3.7	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1
Zinc	**605**		57.5	29.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.4**		0.56	0.13	mg/Kg	☼	02/19/25 09:48	02/19/25 12:49	1

Client Sample ID: SS-8
Date Collected: 02/13/25 15:35
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-10
Matrix: Solid
Percent Solids: 74.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		230	33	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
bis (2-chloroisopropyl) ether	ND		230	45	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2,4,5-Trichlorophenol	ND		230	61	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2,4,6-Trichlorophenol	ND		230	45	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2,4-Dichlorophenol	ND		230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2,4-Dimethylphenol	ND		230	55	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2,4-Dinitrophenol	ND		2200	1000	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2,4-Dinitrotoluene	ND		230	47	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2,6-Dinitrotoluene	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2-Chloronaphthalene	ND		230	37	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
1,4-Dioxane	ND		130	73	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2-Chlorophenol	ND		440	41	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2-Methylnaphthalene	ND		230	45	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2-Methylphenol	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2-Nitroaniline	ND		440	33	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
2-Nitrophenol	ND		230	64	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
3,3'-Dichlorobenzidine	ND		440	270	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
3-Nitroaniline	ND		440	63	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
4,6-Dinitro-2-methylphenol	ND		440	230	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
4-Bromophenyl phenyl ether	ND		230	32	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
4-Chloro-3-methylphenol	ND		230	56	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
4-Chloroaniline	ND		230	56	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
4-Chlorophenyl phenyl ether	ND		230	28	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
4-Methylphenol	ND		440	27	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
4-Nitroaniline	ND		440	120	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
4-Nitrophenol	ND		440	160	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Acenaphthene	ND		230	33	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Acenaphthylene	ND		230	29	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Acetophenone	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Anthracene	**66**	**J**	230	56	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Atrazine	ND		230	79	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Benzaldehyde	ND		230	180	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Benzo[a]anthracene	**170**	**J**	230	23	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Benzo[a]pyrene	**180**	**J**	230	33	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Benzo[b]fluoranthene	**210**	**J**	230	36	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Benzo[g,h,i]perylene	**98**	**J**	230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Benzo[k]fluoranthene	**97**	**J**	230	29	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Bis(2-chloroethoxy)methane	ND		230	48	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Bis(2-chloroethyl)ether	ND		230	29	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Bis(2-ethylhexyl) phthalate	ND		230	77	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Butyl benzyl phthalate	ND		230	37	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Caprolactam	ND		230	68	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Carbazole	**33**	**J**	230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Chrysene	**180**	**J**	230	51	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Di-n-butyl phthalate	ND		230	39	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Di-n-octyl phthalate	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Dibenz(a,h)anthracene	ND		230	40	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Dibenzofuran	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Diethyl phthalate	ND		230	29	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1

Client Sample ID: SS-8
Date Collected: 02/13/25 15:35
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-10
Matrix: Solid
Percent Solids: 74.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Fluoranthene	**350**		230	24	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Fluorene	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Hexachlorobenzene	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Hexachlorobutadiene	ND		230	33	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Hexachlorocyclopentadiene	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Hexachloroethane	ND		230	29	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Indeno[1,2,3-cd]pyrene	**87**	**J**	230	28	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Isophorone	ND		230	48	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
N-Nitrosodi-n-propylamine	ND		230	39	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
N-Nitrosodiphenylamine	ND		230	180	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Naphthalene	ND		230	29	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Nitrobenzene	ND		230	25	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Pentachlorophenol	ND		440	230	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Phenanthrene	**270**		230	33	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Phenol	ND		230	35	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1
Pyrene	**270**		230	27	ug/Kg	☼	02/25/25 07:05	02/25/25 23:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5000*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/25/25 07:05*	*02/25/25 23:18*	*1*
Unknown	*1800*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/25/25 23:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*26 - 143*	*02/25/25 07:05*	*02/25/25 23:18*	*1*
2-Fluorobiphenyl	*49*	*S1-*	*50 - 121*	*02/25/25 07:05*	*02/25/25 23:18*	*1*
2-Fluorophenol	*41*		*36 - 120*	*02/25/25 07:05*	*02/25/25 23:18*	*1*
Nitrobenzene-d5	*45*		*40 - 121*	*02/25/25 07:05*	*02/25/25 23:18*	*1*
p-Terphenyl-d14	*54*		*46 - 143*	*02/25/25 07:05*	*02/25/25 23:18*	*1*
Phenol-d5	*43*		*41 - 120*	*02/25/25 07:05*	*02/25/25 23:18*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		11	2.2	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
4,4'-DDE	ND		11	2.3	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
4,4'-DDT	**2.6**	**J**	11	2.6	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
Aldrin	ND		11	2.7	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
alpha-BHC	ND		11	2.0	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
cis-Chlordane	ND		11	5.6	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
beta-BHC	**12**		11	2.0	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
delta-BHC	ND		11	2.1	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
Dieldrin	ND		11	2.7	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
Endosulfan I	ND		11	2.1	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
Endosulfan II	ND		11	2.0	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
Endosulfan sulfate	ND		11	2.1	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
Endrin	ND		11	2.2	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
Endrin aldehyde	ND		11	2.9	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
Endrin ketone	ND		11	2.7	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
gamma-BHC (Lindane)	ND		11	2.0	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
trans-Chlordane	ND		11	3.5	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
Heptachlor	ND		11	2.4	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5

Client Sample ID: SS-8
Date Collected: 02/13/25 15:35
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-10
Matrix: Solid
Percent Solids: 74.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		11	2.9	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
Methoxychlor	ND		11	2.3	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5
Toxaphene	ND		110	65	ug/Kg	☼	02/21/25 08:39	02/24/25 14:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*45 - 120*	*02/21/25 08:39*	*02/24/25 14:20*	*5*
DCB Decachlorobiphenyl	*203*	*S1+*	*45 - 120*	*02/21/25 08:39*	*02/24/25 14:20*	*5*
Tetrachloro-m-xylene	*71*		*30 - 124*	*02/21/25 08:39*	*02/24/25 14:20*	*5*
Tetrachloro-m-xylene	*81*		*30 - 124*	*02/21/25 08:39*	*02/24/25 14:20*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.060	mg/Kg	☼	02/17/25 07:16	02/18/25 15:03	1
PCB-1221	ND		0.30	0.060	mg/Kg	☼	02/17/25 07:16	02/18/25 15:03	1
PCB-1232	ND		0.30	0.060	mg/Kg	☼	02/17/25 07:16	02/18/25 15:03	1
PCB-1242	ND		0.30	0.060	mg/Kg	☼	02/17/25 07:16	02/18/25 15:03	1
PCB-1248	ND		0.30	0.060	mg/Kg	☼	02/17/25 07:16	02/18/25 15:03	1
PCB-1254	ND		0.30	0.14	mg/Kg	☼	02/17/25 07:16	02/18/25 15:03	1
PCB-1260	ND		0.30	0.14	mg/Kg	☼	02/17/25 07:16	02/18/25 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*60 - 154*	*02/17/25 07:16*	*02/18/25 15:03*	*1*
Tetrachloro-m-xylene	*108*		*60 - 154*	*02/17/25 07:16*	*02/18/25 15:03*	*1*
DCB Decachlorobiphenyl	*147*		*65 - 174*	*02/17/25 07:16*	*02/18/25 15:03*	*1*
DCB Decachlorobiphenyl	*118*		*65 - 174*	*02/17/25 07:16*	*02/18/25 15:03*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		22	7.0	ug/Kg	☼	02/24/25 06:56	02/26/25 15:19	1
Silvex (2,4,5-TP)	ND		22	7.9	ug/Kg	☼	02/24/25 06:56	02/26/25 15:19	1
2,4-D	ND		22	14	ug/Kg	☼	02/24/25 06:56	02/26/25 15:19	1
Dichlorprop	ND		22	11	ug/Kg	☼	02/24/25 06:56	02/26/25 15:19	1
Pentachlorophenol	ND		22	7.2	ug/Kg	☼	02/24/25 06:56	02/26/25 15:19	1
Picloram	ND		22	9.5	ug/Kg	☼	02/24/25 06:56	02/26/25 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*02/24/25 06:56*	*02/26/25 15:19*	*1*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*02/24/25 06:56*	*02/26/25 15:19*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.66	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluoropentanoic acid (PFPeA)	**0.12**	**J**	0.33	0.083	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorohexanoic acid (PFHxA)	**0.092**	**J**	0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluoroheptanoic acid (PFHpA)	**0.066**	**J**	0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorooctanoic acid (PFOA)	**0.23**		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorononanoic acid (PFNA)	**0.088**	**J**	0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorodecanoic acid (PFDA)	**0.087**	**J**	0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluoroundecanoic acid (PFUnA)	**0.041**	**J**	0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorododecanoic acid (PFDoA)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1

Client Sample ID: SS-8
Date Collected: 02/13/25 15:35
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-10
Matrix: Solid
Percent Solids: 74.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorooctanesulfonic acid (PFOS)	**0.47**		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorononanesulfonic acid (PFNS)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.66	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.66	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.66	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.7	0.41	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.7	0.41	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.66	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.66	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.33	0.083	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.33	0.083	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.66	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.66	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.33	0.083	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.83	0.21	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.1	1.0	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.1	1.0	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.17	0.041	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.33	0.083	ug/Kg	☼	02/17/25 13:48	02/18/25 16:24	1

Client Sample ID: SS-8
Date Collected: 02/13/25 15:35
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-10
Matrix: Solid
Percent Solids: 74.6

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C5 PFPeA	85.2		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C5 PFHxA	93.7		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C4 PFHpA	95.7		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C8 PFOA	89.9		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C9 PFNA	104		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C6 PFDA	95.2		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C7 PFUnA	99.9		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C2 PFTeDA	87.7		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C3 PFBS	78.5		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C3 PFHxS	81.7		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C8 PFOS	83.1		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C8 PFOSA	86.4		20 - 150	02/17/25 13:48	02/18/25 16:24	1
d3-NMeFOSAA	93.9		20 - 150	02/17/25 13:48	02/18/25 16:24	1
d5-NEtFOSAA	96.3		20 - 150	02/17/25 13:48	02/18/25 16:24	1
M2-4:2 FTS	164	*5+	20 - 150	02/17/25 13:48	02/18/25 16:24	1
M2-6:2 FTS	115		20 - 150	02/17/25 13:48	02/18/25 16:24	1
M2-8:2 FTS	126		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C3 HFPO-DA	95.2		20 - 150	02/17/25 13:48	02/18/25 16:24	1
d7-N-MeFOSE-M	83.4		20 - 150	02/17/25 13:48	02/18/25 16:24	1
d9-N-EtFOSE-M	79.4		20 - 150	02/17/25 13:48	02/18/25 16:24	1
d5-NEtPFOSA	75.7		20 - 150	02/17/25 13:48	02/18/25 16:24	1
D3-NMeFOSA	82.4		20 - 150	02/17/25 13:48	02/18/25 16:24	1
13C2-PFDoDA	95.8		20 - 150	02/17/25 13:48	02/18/25 16:24	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18200**		14.0	12.0	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Antimony	ND		21.0	0.74	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Arsenic	**11.5**		2.8	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Barium	**119**		0.70	0.20	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Beryllium	**0.77**		0.28	0.056	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Cadmium	**0.99**		0.28	0.098	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Calcium	**16500**		69.9	37.7	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Chromium	**21.3**	**B**	0.70	0.50	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Cobalt	**12.6**		0.70	0.14	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Copper	**17.7**		1.4	0.80	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Iron	**25600**		14.0	11.8	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Lead	**69.5**		1.4	0.64	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Magnesium	**6270**		27.9	11.8	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Manganese	**1260**		1.4	0.39	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Nickel	**18.8**		7.0	0.35	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Potassium	**3150**		41.9	33.9	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Selenium	**1.1**	**J**	5.6	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Silver	ND		0.84	0.28	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Sodium	**176**	**J**	196	85.7	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Thallium	ND		8.4	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Vanadium	**38.9**		0.70	0.18	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1
Zinc	**155**		2.8	1.4	mg/Kg	☼	02/15/25 15:47	02/17/25 17:56	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Client Sample ID: SS-8
Lab Sample ID: 480-227359-10
Date Collected: 02/13/25 15:35
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 74.6

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.026	0.0060	mg/Kg	☼	02/19/25 09:48	02/19/25 12:50	1

Client Sample ID: RISB-6 0.5-3 ft
Lab Sample ID: 480-227359-11
Date Collected: 02/13/25 14:30
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 89.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		930	140	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
bis (2-chloroisopropyl) ether	ND		930	190	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2,4,5-Trichlorophenol	ND		930	250	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2,4,6-Trichlorophenol	ND		930	190	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2,4-Dichlorophenol	ND		930	99	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2,4-Dimethylphenol	ND		930	220	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2,4-Dinitrophenol	ND		9100	4300	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2,4-Dinitrotoluene	ND		930	190	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2,6-Dinitrotoluene	ND		930	110	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2-Chloronaphthalene	ND		930	150	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
1,4-Dioxane	ND		550	300	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2-Chlorophenol	ND		1800	170	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2-Methylnaphthalene	ND		930	190	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2-Methylphenol	ND		930	110	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2-Nitroaniline	ND		1800	140	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
2-Nitrophenol	ND		930	260	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
3,3'-Dichlorobenzidine	ND		1800	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
3-Nitroaniline	ND		1800	260	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
4,6-Dinitro-2-methylphenol	ND		1800	930	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
4-Bromophenyl phenyl ether	ND		930	130	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
4-Chloro-3-methylphenol	ND		930	230	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
4-Chloroaniline	ND		930	230	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
4-Chlorophenyl phenyl ether	ND		930	120	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
4-Methylphenol	ND		1800	110	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
4-Nitroaniline	ND		1800	490	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
4-Nitrophenol	ND		1800	650	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Acenaphthene	**190**	**J**	930	140	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Acenaphthylene	**190**	**J**	930	120	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Acetophenone	ND		930	130	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Anthracene	**1100**		930	230	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Atrazine	ND		930	320	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Benzaldehyde	ND		930	740	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Benzo[a]anthracene	**3200**		930	93	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Benzo[a]pyrene	**2700**		930	140	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Benzo[b]fluoranthene	**3200**		930	150	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Benzo[g,h,i]perylene	**1300**		930	99	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Benzo[k]fluoranthene	**1700**		930	120	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Bis(2-chloroethoxy)methane	ND		930	200	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Bis(2-chloroethyl)ether	ND		930	120	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Bis(2-ethylhexyl) phthalate	ND		930	320	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Butyl benzyl phthalate	ND		930	150	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Caprolactam	ND		930	280	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Carbazole	**160**	**J**	930	110	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Chrysene	**3000**		930	210	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Di-n-butyl phthalate	ND		930	160	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Di-n-octyl phthalate	ND		930	110	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Dibenz(a,h)anthracene	**500**	**J**	930	160	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Dibenzofuran	**180**	**J**	930	110	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Diethyl phthalate	ND		930	120	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5

Client Sample ID: RISB-6 0.5-3 ft
Lab Sample ID: 480-227359-11

Date Collected: 02/13/25 14:30
Matrix: Solid

Date Received: 02/13/25 16:45
Percent Solids: 89.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		930	110	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Fluoranthene	**7200**		930	99	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Fluorene	**370**	**J**	930	110	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Hexachlorobenzene	ND		930	130	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Hexachlorobutadiene	ND		930	140	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Hexachlorocyclopentadiene	ND		930	130	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Hexachloroethane	ND		930	120	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Indeno[1,2,3-cd]pyrene	**1300**		930	120	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Isophorone	ND		930	200	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
N-Nitrosodi-n-propylamine	ND		930	160	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
N-Nitrosodiphenylamine	ND		930	760	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Naphthalene	ND		930	120	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Nitrobenzene	ND		930	100	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Pentachlorophenol	ND		1800	930	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Phenanthrene	**3500**		930	140	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Phenol	ND		930	140	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5
Pyrene	**5000**		930	110	ug/Kg	☼	02/25/25 07:05	02/25/25 23:44	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2400*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/25/25 23:44*	*5*
Anthracene, 2-methyl-	*900*	*T J N*	*ug/Kg*	☼	*11.48*	*613-12-7*	*02/25/25 07:05*	*02/25/25 23:44*	*5*
4H-Cyclopenta[def]phenanthrene	*1200*	*T J N*	*ug/Kg*	☼	*11.56*	*203-64-5*	*02/25/25 07:05*	*02/25/25 23:44*	*5*
Benzo[e]pyrene	*1700*	*T J N*	*ug/Kg*	☼	*14.44*	*192-97-2*	*02/25/25 07:05*	*02/25/25 23:44*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*26 - 143*	*02/25/25 07:05*	*02/25/25 23:44*	*5*
2-Fluorobiphenyl	*76*		*50 - 121*	*02/25/25 07:05*	*02/25/25 23:44*	*5*
2-Fluorophenol	*69*		*36 - 120*	*02/25/25 07:05*	*02/25/25 23:44*	*5*
Nitrobenzene-d5	*71*		*40 - 121*	*02/25/25 07:05*	*02/25/25 23:44*	*5*
p-Terphenyl-d14	*74*		*46 - 143*	*02/25/25 07:05*	*02/25/25 23:44*	*5*
Phenol-d5	*72*		*41 - 120*	*02/25/25 07:05*	*02/25/25 23:44*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		37	7.2	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
4,4'-DDE	ND		37	7.8	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
4,4'-DDT	**9.6**	**J**	37	8.7	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Aldrin	ND		37	9.1	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
alpha-BHC	ND		37	6.7	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
cis-Chlordane	ND		37	18	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
beta-BHC	ND		37	6.7	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
delta-BHC	ND		37	6.9	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Dieldrin	ND		37	8.9	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Endosulfan I	ND		37	7.1	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Endosulfan II	ND		37	6.7	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Endosulfan sulfate	ND		37	6.9	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Endrin	ND		37	7.3	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Endrin aldehyde	ND		37	9.5	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Endrin ketone	ND		37	9.1	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
gamma-BHC (Lindane)	ND		37	6.8	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20

Client Sample ID: RISB-6 0.5-3 ft
Lab Sample ID: 480-227359-11

Date Collected: 02/13/25 14:30
Matrix: Solid

Date Received: 02/13/25 16:45
Percent Solids: 89.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		37	12	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Heptachlor	ND		37	8.0	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Heptachlor epoxide	ND		37	9.6	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Methoxychlor	ND		37	7.6	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20
Toxaphene	ND		370	220	ug/Kg	☼	02/21/25 08:39	02/24/25 14:40	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*02/21/25 08:39*	*02/24/25 14:40*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*02/21/25 08:39*	*02/24/25 14:40*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*02/21/25 08:39*	*02/24/25 14:40*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*02/21/25 08:39*	*02/24/25 14:40*	*20*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7640**		11.2	9.7	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Antimony	ND		16.9	0.60	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Arsenic	**3.5**		2.2	0.99	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Barium	**70.8**		0.56	0.16	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Beryllium	**0.38**		0.22	0.045	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Cadmium	**0.29**		0.22	0.079	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Calcium	**71200**		56.2	30.3	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Chromium	**11.9**	**B**	0.56	0.40	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Cobalt	**4.0**		0.56	0.11	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Copper	**30.7**		1.1	0.64	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Iron	**11100**		11.2	9.5	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Lead	**120**		1.1	0.52	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Magnesium	**12900**		22.5	9.5	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Manganese	**258**		1.1	0.31	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Nickel	**12.2**		5.6	0.28	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Potassium	**2100**		33.7	27.2	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Selenium	ND		4.5	0.90	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Silver	ND		0.67	0.22	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Sodium	**365**		157	68.9	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Thallium	ND		6.7	0.85	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Vanadium	**17.1**		0.56	0.15	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1
Zinc	**93.4**		2.2	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 17:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.32**		0.023	0.0052	mg/Kg	☼	02/19/25 09:48	02/19/25 12:54	1

Client: Roux Environmental Engineering and Geology DPC
Project/Site: North Aud Block

Job ID: 480-227359-1

Client Sample ID: RISB-6 17-18 ft
Date Collected: 02/13/25 15:00
Date Received: 02/13/25 16:45

Lab Sample ID: 480-227359-12
Matrix: Solid
Percent Solids: 74.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.6	0.41	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,1,2,2-Tetrachloroethane	ND		5.6	0.92	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.6	1.3	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,1,2-Trichloroethane	ND		5.6	0.73	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,1-Dichloroethane	ND		5.6	0.69	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,1-Dichloroethene	ND		5.6	0.69	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,2,4-Trichlorobenzene	ND		5.6	0.34	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,2,4-Trimethylbenzene	ND		5.6	1.1	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,2-Dibromo-3-Chloropropane	ND		5.6	2.8	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,2-Dichlorobenzene	ND		5.6	0.44	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,2-Dichloroethane	ND		5.6	0.28	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,2-Dichloropropane	ND		5.6	2.8	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,3,5-Trimethylbenzene	ND		5.6	0.36	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,3-Dichlorobenzene	ND		5.6	0.29	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,4-Dichlorobenzene	ND		5.6	0.79	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
2-Butanone (MEK)	**3.5**	**J**	28	2.1	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
2-Hexanone	ND		28	2.8	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
4-Isopropyltoluene	ND		5.6	0.45	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
4-Methyl-2-pentanone (MIBK)	ND		28	1.9	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Acetone	**18**	**J**	28	4.8	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Benzene	ND		5.6	0.28	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Bromoform	ND		5.6	2.8	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Bromomethane	ND		5.6	0.51	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Carbon disulfide	ND		5.6	2.8	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Carbon tetrachloride	ND		5.6	0.55	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Chlorobenzene	ND		5.6	0.75	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Dibromochloromethane	ND		5.6	0.72	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Chloroethane	ND		5.6	1.3	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Chloroform	**0.36**	**J B**	5.6	0.35	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Chloromethane	ND		5.6	0.34	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
cis-1,2-Dichloroethene	ND		5.6	0.72	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Cyclohexane	ND	*+	5.6	0.79	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Bromodichloromethane	ND		5.6	0.76	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Dichlorodifluoromethane	ND		5.6	0.47	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Ethylbenzene	ND		5.6	0.39	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
1,2-Dibromoethane	ND		5.6	0.73	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Isopropylbenzene	ND		5.6	0.85	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Methyl acetate	ND		28	3.4	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Methyl tert-butyl ether	ND		5.6	0.55	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Methylcyclohexane	ND		5.6	0.86	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Methylene Chloride	ND		5.6	2.6	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
m,p-Xylene	ND		11	0.95	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Naphthalene	ND		5.6	0.76	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
n-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
N-Propylbenzene	ND		5.6	0.45	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
o-Xylene	ND		5.6	0.74	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
sec-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Tetrachloroethene	ND		5.6	0.76	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Toluene	ND		5.6	0.43	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1

Client Sample ID: RISB-6 17-18 ft
Lab Sample ID: 480-227359-12
Date Collected: 02/13/25 15:00
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 74.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.6	0.58	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
trans-1,3-Dichloropropene	ND		5.6	2.5	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Trichloroethene	ND		5.6	1.2	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Trichlorofluoromethane	ND		5.6	0.53	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Vinyl chloride	ND		5.6	0.69	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Xylenes, Total	ND		11	0.95	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
cis-1,3-Dichloropropene	ND		5.6	0.81	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
Styrene	ND		5.6	0.28	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1
tert-Butylbenzene	ND		5.6	0.59	ug/Kg	☼	02/14/25 12:07	02/17/25 23:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/14/25 12:07*	*02/17/25 23:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*64 - 126*	*02/14/25 12:07*	*02/17/25 23:11*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*	*02/14/25 12:07*	*02/17/25 23:11*	*1*
Toluene-d8 (Surr)	*90*		*71 - 125*	*02/14/25 12:07*	*02/17/25 23:11*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*	*02/14/25 12:07*	*02/17/25 23:11*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		230	33	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
bis (2-chloroisopropyl) ether	ND		230	45	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2,4,5-Trichlorophenol	ND		230	61	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2,4,6-Trichlorophenol	ND		230	45	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2,4-Dichlorophenol	ND		230	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2,4-Dimethylphenol	ND		230	55	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2,4-Dinitrophenol	ND		2200	1000	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2,4-Dinitrotoluene	ND		230	47	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2,6-Dinitrotoluene	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2-Chloronaphthalene	ND		230	37	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
1,4-Dioxane	ND		130	73	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2-Chlorophenol	ND		440	41	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2-Methylnaphthalene	ND		230	45	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2-Methylphenol	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2-Nitroaniline	ND		440	33	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
2-Nitrophenol	ND		230	64	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
3,3'-Dichlorobenzidine	ND		440	270	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
3-Nitroaniline	ND		440	63	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
4,6-Dinitro-2-methylphenol	ND		440	230	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
4-Bromophenyl phenyl ether	ND		230	32	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
4-Chloro-3-methylphenol	ND		230	56	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
4-Chloroaniline	ND		230	56	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
4-Chlorophenyl phenyl ether	ND		230	28	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
4-Methylphenol	ND		440	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
4-Nitroaniline	ND		440	120	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
4-Nitrophenol	ND		440	160	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Acenaphthene	ND		230	33	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Acenaphthylene	ND		230	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Acetophenone	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1

Client Sample ID: RISB-6 17-18 ft
Lab Sample ID: 480-227359-12

Date Collected: 02/13/25 15:00
Matrix: Solid

Date Received: 02/13/25 16:45
Percent Solids: 74.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		230	56	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Atrazine	ND		230	79	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Benzaldehyde	ND		230	180	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Benzo[a]anthracene	ND		230	23	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Benzo[a]pyrene	ND		230	33	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Benzo[b]fluoranthene	ND		230	36	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Benzo[g,h,i]perylene	ND		230	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Benzo[k]fluoranthene	ND		230	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Bis(2-chloroethoxy)methane	ND		230	48	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Bis(2-chloroethyl)ether	ND		230	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Bis(2-ethylhexyl) phthalate	ND		230	77	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Butyl benzyl phthalate	ND		230	37	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Caprolactam	ND		230	68	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Carbazole	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Chrysene	ND		230	51	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Di-n-butyl phthalate	ND		230	39	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Di-n-octyl phthalate	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Dibenz(a,h)anthracene	ND		230	40	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Dibenzofuran	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Diethyl phthalate	ND		230	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Dimethyl phthalate	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Fluoranthene	ND		230	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Fluorene	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Hexachlorobenzene	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Hexachlorobutadiene	ND		230	33	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Hexachlorocyclopentadiene	ND		230	31	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Hexachloroethane	ND		230	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Indeno[1,2,3-cd]pyrene	ND		230	28	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Isophorone	ND		230	48	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
N-Nitrosodi-n-propylamine	ND		230	39	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
N-Nitrosodiphenylamine	ND		230	180	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Naphthalene	ND		230	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Nitrobenzene	ND		230	25	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Pentachlorophenol	ND		440	230	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Phenanthrene	ND		230	33	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Phenol	ND		230	35	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1
Pyrene	ND		230	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3300*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/25/25 07:05*	*02/26/25 00:10*	*1*
Unknown	*2500*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/26/25 00:10*	*1*
Unknown	*380*	*T J*	*ug/Kg*	☼	*11.36*	*N/A*	*02/25/25 07:05*	*02/26/25 00:10*	*1*
Unknown	*1000*	*T J*	*ug/Kg*	☼	*13.26*	*N/A*	*02/25/25 07:05*	*02/26/25 00:10*	*1*
Unknown	*540*	*T J*	*ug/Kg*	☼	*13.79*	*N/A*	*02/25/25 07:05*	*02/26/25 00:10*	*1*
Corynan-17-ol	*190*	*T J N*	*ug/Kg*	☼	*13.82*	*2270-72-6*	*02/25/25 07:05*	*02/26/25 00:10*	*1*
Vitamin e	*330*	*T J N*	*ug/Kg*	☼	*14.99*	*10191-41-0*	*02/25/25 07:05*	*02/26/25 00:10*	*1*
Unknown	*270*	*T J*	*ug/Kg*	☼	*15.54*	*N/A*	*02/25/25 07:05*	*02/26/25 00:10*	*1*
Unknown	*320*	*T J*	*ug/Kg*	☼	*15.64*	*N/A*	*02/25/25 07:05*	*02/26/25 00:10*	*1*
.gamma.-Sitosterol	*370*	*T J N*	*ug/Kg*	☼	*15.77*	*83-47-6*	*02/25/25 07:05*	*02/26/25 00:10*	*1*

Client Sample ID: RISB-6 17-18 ft
Lab Sample ID: 480-227359-12

Date Collected: 02/13/25 15:00
Matrix: Solid

Date Received: 02/13/25 16:45
Percent Solids: 74.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cholestane, 3-ethoxy-, (3.beta.,5.alpha.)-	410	T J N	ug/Kg	☼	15.83	2089-02-3	02/25/25 07:05	02/26/25 00:10	1
Unknown	260	T J	ug/Kg	☼	15.89	N/A	02/25/25 07:05	02/26/25 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		26 - 143	02/25/25 07:05	02/26/25 00:10	1
2-Fluorobiphenyl	70		50 - 121	02/25/25 07:05	02/26/25 00:10	1
2-Fluorophenol	61		36 - 120	02/25/25 07:05	02/26/25 00:10	1
Nitrobenzene-d5	64		40 - 121	02/25/25 07:05	02/26/25 00:10	1
p-Terphenyl-d14	80		46 - 143	02/25/25 07:05	02/26/25 00:10	1
Phenol-d5	66		41 - 120	02/25/25 07:05	02/26/25 00:10	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.2	0.42	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
4,4'-DDE	ND		2.2	0.46	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
4,4'-DDT	ND		2.2	0.51	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Aldrin	ND		2.2	0.54	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
alpha-BHC	ND		2.2	0.39	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
cis-Chlordane	ND		2.2	1.1	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
beta-BHC	ND		2.2	0.39	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
delta-BHC	ND		2.2	0.41	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Dieldrin	ND		2.2	0.52	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Endosulfan I	ND		2.2	0.42	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Endosulfan II	ND		2.2	0.39	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Endosulfan sulfate	ND		2.2	0.41	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Endrin	ND		2.2	0.43	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Endrin aldehyde	ND		2.2	0.56	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Endrin ketone	ND		2.2	0.54	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
gamma-BHC (Lindane)	ND		2.2	0.40	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
trans-Chlordane	ND		2.2	0.69	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Heptachlor	ND		2.2	0.47	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Heptachlor epoxide	ND		2.2	0.56	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Methoxychlor	ND		2.2	0.45	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1
Toxaphene	ND		22	13	ug/Kg	☼	02/21/25 08:39	02/24/25 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		45 - 120	02/21/25 08:39	02/24/25 15:00	1
DCB Decachlorobiphenyl	95		45 - 120	02/21/25 08:39	02/24/25 15:00	1
Tetrachloro-m-xylene	78		30 - 124	02/21/25 08:39	02/24/25 15:00	1
Tetrachloro-m-xylene	83		30 - 124	02/21/25 08:39	02/24/25 15:00	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.32	0.062	mg/Kg	☼	02/17/25 07:16	02/18/25 15:21	1
PCB-1221	ND		0.32	0.062	mg/Kg	☼	02/17/25 07:16	02/18/25 15:21	1
PCB-1232	ND		0.32	0.062	mg/Kg	☼	02/17/25 07:16	02/18/25 15:21	1
PCB-1242	ND		0.32	0.062	mg/Kg	☼	02/17/25 07:16	02/18/25 15:21	1
PCB-1248	ND		0.32	0.062	mg/Kg	☼	02/17/25 07:16	02/18/25 15:21	1
PCB-1254	ND		0.32	0.15	mg/Kg	☼	02/17/25 07:16	02/18/25 15:21	1

Client Sample ID: RISB-6 17-18 ft
Lab Sample ID: 480-227359-12

Date Collected: 02/13/25 15:00
Matrix: Solid

Date Received: 02/13/25 16:45
Percent Solids: 74.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.32	0.15	mg/Kg	☼	02/17/25 07:16	02/18/25 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*60 - 154*	*02/17/25 07:16*	*02/18/25 15:21*	*1*
Tetrachloro-m-xylene	*95*		*60 - 154*	*02/17/25 07:16*	*02/18/25 15:21*	*1*
DCB Decachlorobiphenyl	*129*		*65 - 174*	*02/17/25 07:16*	*02/18/25 15:21*	*1*
DCB Decachlorobiphenyl	*105*		*65 - 174*	*02/17/25 07:16*	*02/18/25 15:21*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		22	7.0	ug/Kg	☼	02/24/25 06:56	02/26/25 15:38	1
Silvex (2,4,5-TP)	ND		22	7.9	ug/Kg	☼	02/24/25 06:56	02/26/25 15:38	1
2,4-D	ND		22	14	ug/Kg	☼	02/24/25 06:56	02/26/25 15:38	1
Dichlorprop	ND		22	11	ug/Kg	☼	02/24/25 06:56	02/26/25 15:38	1
Pentachlorophenol	ND		22	7.1	ug/Kg	☼	02/24/25 06:56	02/26/25 15:38	1
Picloram	ND		22	9.4	ug/Kg	☼	02/24/25 06:56	02/26/25 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*55*		*28 - 129*	*02/24/25 06:56*	*02/26/25 15:38*	*1*
2,4-Dichlorophenylacetic acid	*55*		*28 - 129*	*02/24/25 06:56*	*02/26/25 15:38*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluoropentanoic acid (PFPeA)	ND		0.33	0.084	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorohexanoic acid (PFHxA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluoroheptanoic acid (PFHpA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorooctanoic acid (PFOA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorononanoic acid (PFNA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorodecanoic acid (PFDA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluoroundecanoic acid (PFUnA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorododecanoic acid (PFDoA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorononanesulfonic acid (PFNS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1

Client Sample ID: RISB-6 17-18 ft
Lab Sample ID: 480-227359-12
Date Collected: 02/13/25 15:00
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 74.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.7	0.42	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.7	0.42	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.33	0.084	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.33	0.084	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.67	0.17	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.33	0.084	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.84	0.21	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.2	1.0	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.2	1.0	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.17	0.042	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.33	0.084	ug/Kg	☼	02/17/25 13:48	02/18/25 16:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*103*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C5 PFPeA	*92.4*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C5 PFHxA	*97.3*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C4 PFHpA	*99.8*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C8 PFOA	*90.5*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C9 PFNA	*106*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C6 PFDA	*99.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C7 PFUnA	*102*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C2 PFTeDA	*89.4*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C3 PFBS	*90.4*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C3 PFHxS	*90.0*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C8 PFOS	*89.0*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C8 PFOSA	*87.0*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
d3-NMeFOSAA	*96.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
d5-NEtFOSAA	*101*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
M2-4:2 FTS	*204*	*5+	*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
M2-6:2 FTS	*129*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*

Client Sample ID: RISB-6 17-18 ft
Lab Sample ID: 480-227359-12

Date Collected: 02/13/25 15:00
Matrix: Solid

Date Received: 02/13/25 16:45
Percent Solids: 74.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*135*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C3 HFPO-DA	*100*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
d7-N-MeFOSE-M	*67.3*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
d9-N-EtFOSE-M	*59.2*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
d5-NEtPFOSA	*69.8*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
D3-NMeFOSA	*78.1*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*
13C2-PFDoDA	*94.7*		*20 - 150*	*02/17/25 13:48*	*02/18/25 16:41*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6840**		14.0	12.1	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Antimony	ND		21.0	0.74	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Arsenic	ND		2.8	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Barium	**107**		0.70	0.20	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Beryllium	**0.25**	**J**	0.28	0.056	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Cadmium	**0.15**	**J**	0.28	0.098	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Calcium	**31200**		70.1	37.9	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Chromium	**8.4**	**B**	0.70	0.50	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Cobalt	**2.0**		0.70	0.14	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Copper	**5.4**		1.4	0.80	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Iron	**5930**		14.0	11.9	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Lead	**7.9**		1.4	0.65	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Magnesium	**3630**		28.1	11.9	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Manganese	**77.7**		1.4	0.39	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Nickel	**6.7**	**J**	7.0	0.35	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Potassium	**1240**		42.1	34.0	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Selenium	ND		5.6	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Silver	ND		0.84	0.28	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Sodium	**224**		196	86.0	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Thallium	ND		8.4	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Vanadium	**12.3**		0.70	0.18	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1
Zinc	**37.3**		2.8	1.4	mg/Kg	☼	02/15/25 15:47	02/17/25 18:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.032**		0.027	0.0062	mg/Kg	☼	02/19/25 09:48	02/19/25 12:55	1

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-227359-12	RISB-6 17-18 ft	110	98	90	105
LCS 480-739024/1-A	Lab Control Sample	99	99	92	106
LCSD 480-739024/2-A	Lab Control Sample Dup	100	98	92	102
MB 480-739024/3-A	Method Blank	100	100	90	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(46-143)	(41-120)
480-227359-1	MW-3 0-2 ft	81	88	81	81	88	82
480-227359-2	SS-1	101	96	77	85	94	85
480-227359-3	SS-2	74	58	47	50	74	53
480-227359-4	SS-BD	76	64	54	61	76	60
480-227359-5	SS-4	105	100	84	95	94	90
480-227359-5 MS	SS-4	107	100	82	92	101	88
480-227359-5 MSD	SS-4	106	98	83	91	102	89
480-227359-6	RISB-5 0-1 ft	57	56	48	50	58	55
480-227359-7	SS-3	70	46 S1-	38	43	69	40 S1-
480-227359-8	SS-9	80	70	55	61	79	60
480-227359-9	SS-10	57	59	48	54	56	49
480-227359-10	SS-8	56	49 S1-	41	45	54	43
480-227359-11	RISB-6 0.5-3 ft	76	76	69	71	74	72
480-227359-12	RISB-6 17-18 ft	86	70	61	64	80	66
LCS 480-739521/2-A	Lab Control Sample	99	100	77	87	103	80
MB 480-739521/1-A	Method Blank	87	92	72	82	98	78

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-227359-1	MW-3 0-2 ft	132 S1+	454 S1+	93	73
480-227359-2	SS-1	85	115	76	82
480-227359-3	SS-2	74	102	61	71

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-227359-4	SS-BD	62	131 S1+	80	72
480-227359-5	SS-4	72	124 S1+	95	73
480-227359-5 MS	SS-4	86	114	72	82
480-227359-5 MSD	SS-4	75	107	93	77
480-227359-6	RISB-5 0-1 ft	0 S1-	0 S1-	0 S1-	0 S1-
480-227359-7	SS-3	82	108	69	80
480-227359-8	SS-9	86	123 S1+	78	84
480-227359-9	SS-10	71	112	58	69
480-227359-10	SS-8	62	203 S1+	71	81
480-227359-11	RISB-6 0.5-3 ft	0 S1-	0 S1-	0 S1-	0 S1-
480-227359-12	RISB-6 17-18 ft	82	95	78	83
LCS 480-739397/2-A	Lab Control Sample	95	103	82	83
MB 480-739397/1-A	Method Blank	99	104	78	85

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-227359-2	SS-1	95	89	101	122
480-227359-3	SS-2	94	86	99	118
480-227359-4	SS-BD	98	87	108	101
480-227359-5	SS-4	102	89	103	122
480-227359-5 MS	SS-4	120	110	137	154
480-227359-5 MSD	SS-4	119	110	137	161
480-227359-7	SS-3	94	92	104	126
480-227359-8	SS-9	108	97	112	137
480-227359-10	SS-8	108	96	118	147
480-227359-12	RISB-6 17-18 ft	95	90	105	129
LCS 480-739108/2-A	Lab Control Sample	121	112	140	163
MB 480-739108/1-A	Method Blank	99	93	115	148

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(28-129)	(28-129)
480-227359-2	SS-1	74	72
480-227359-3	SS-2	76	80
480-227359-4	SS-BD	67	69
480-227359-5	SS-4	71	72
480-227359-5 MS	SS-4	76	75

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCPAA1 (28-129)	DCPAA2 (28-129)								
480-227359-5 MSD	SS-4	85	73								
480-227359-7	SS-3	77	70								
480-227359-8	SS-9	83	76								
480-227359-10	SS-8	71	72								
480-227359-12	RISB-6 17-18 ft	55	55								
LCS 480-739471/2-A	Lab Control Sample	75	70								
MB 480-739471/1-A	Method Blank	78	74								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
480-227359-2	SS-1	99.9	87.4	92.7	95.3	86.8	103	96.6	102
480-227359-3	SS-2	95.8	84.0	88.9	92.5	87.1	102	101	105
480-227359-4	SS-BD	99.9	90.9	97.2	97.4	90.9	105	101	105
480-227359-5	SS-4	100	83.2	90.4	92.6	85.8	101	97.8	102
480-227359-5 MS	SS-4	98.3	83.7	94.2	91.6	89.1	104	98.2	100
480-227359-5 MSD	SS-4	106	90.3	96.8	97.1	91.7	107	101	106
480-227359-7	SS-3	106	94.2	100	104	93.6	110	103	107
480-227359-8	SS-9	99.4	87.7	95.6	97.2	90.2	102	96.5	104
480-227359-10	SS-8	100	85.2	93.7	95.7	89.9	104	95.2	99.9
480-227359-12	RISB-6 17-18 ft	103	92.4	97.3	99.8	90.5	106	99.9	102
480-227359-12 DU	RISB-6 17-18 ft	103	93.3	100	104	96.6	106	102	104
LCS 240-645106/3-A	Lab Control Sample	104	93.9	102	107	95.7	109	103	105
LLCS 240-645106/2-A	Lab Control Sample	104	99.6	104	105	94.4	108	101	103
MB 240-645106/1-A	Method Blank	105	98.1	100	107	92.9	108	102	107

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)
480-227359-2	SS-1	88.3	85.0	86.5	88.1	93.6	99.5	92.4	247 *5+
480-227359-3	SS-2	91.7	78.9	80.6	89.3	88.2	97.1	114	194 *5+
480-227359-4	SS-BD	91.1	87.8	88.5	89.8	91.6	100	117	196 *5+
480-227359-5	SS-4	87.9	77.8	80.1	82.1	84.2	92.5	97.2	147
480-227359-5 MS	SS-4	89.6	87.0	85.3	88.1	88.3	97.4	102	186 *5+
480-227359-5 MSD	SS-4	93.7	90.4	91.4	90.8	93.9	106	103	227 *5+
480-227359-7	SS-3	94.3	97.4	96.7	94.2	90.9	94.7	119	124
480-227359-8	SS-9	89.7	84.8	83.6	89.5	93.2	104	100	232 *5+
480-227359-10	SS-8	87.7	78.5	81.7	83.1	86.4	93.9	96.3	164 *5+
480-227359-12	RISB-6 17-18 ft	89.4	90.4	90.0	89.0	87.0	96.9	101	204 *5+
480-227359-12 DU	RISB-6 17-18 ft	89.2	92.7	92.5	88.9	87.5	94.4	117	123
LCS 240-645106/3-A	Lab Control Sample	93.6	96.6	96.5	98.2	90.9	96.2	94.1	118
LLCS 240-645106/2-A	Lab Control Sample	92.0	98.7	93.8	94.1	90.4	98.0	117	118
MB 240-645106/1-A	Method Blank	92.4	96.0	95.7	97.4	89.3	95.7	118	126

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)	PFDoDA (20-150)
480-227359-2	SS-1	125	154 *5+	95.8	85.9	79.0	76.5	86.1	97.7
480-227359-3	SS-2	121	141	85.8	82.6	83.0	75.9	85.9	101
480-227359-4	SS-BD	128	147	98.1	79.6	73.1	79.4	88.3	96.1
480-227359-5	SS-4	112	118	91.5	82.9	78.3	75.4	84.5	94.2
480-227359-5 MS	SS-4	129	140	87.2	73.7	63.5	76.1	87.5	94.6
480-227359-5 MSD	SS-4	146	156 *5+	95.0	88.6	86.6	79.5	88.8	102
480-227359-7	SS-3	133	138	104	88.5	87.3	71.1	78.3	101
480-227359-8	SS-9	126	147	93.3	87.0	84.9	77.8	87.2	94.6
480-227359-10	SS-8	115	126	95.2	83.4	79.4	75.7	82.4	95.8
480-227359-12	RISB-6 17-18 ft	129	135	100	67.3	59.2	69.8	78.1	94.7
480-227359-12 DU	RISB-6 17-18 ft	129	133	106	76.2	73.0	71.3	78.9	97.1
LCS 240-645106/3-A	Lab Control Sample	134	135	108	82.9	82.1	70.7	75.9	97.5
LLCS 240-645106/2-A	Lab Control Sample	130	141	103	67.3	63.7	70.0	79.3	95.9
MB 240-645106/1-A	Method Blank	135	132	109	82.6	79.9	67.6	75.8	97.4

Isotope Dilution Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = D3-NMeFOSA
PFDoDA = 13C2-PFDoDA

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-739024/3-A
Matrix: Solid
Analysis Batch: 739146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
2-Hexanone	ND		25	2.5	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Acetone	ND		25	4.2	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Benzene	ND		5.0	0.25	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Bromoform	ND		5.0	2.5	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Bromomethane	ND		5.0	0.45	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Chloroethane	ND		5.0	1.1	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Chloroform	0.396	J	5.0	0.31	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Chloromethane	ND		5.0	0.30	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Cyclohexane	ND		5.0	0.70	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Methyl acetate	ND		25	3.0	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
m,p-Xylene	ND		10	0.84	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Naphthalene	ND		5.0	0.67	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
o-Xylene	ND		5.0	0.65	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		02/14/25 12:07	02/17/25 22:24	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-739024/3-A
Matrix: Solid
Analysis Batch: 739146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0	0.38	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Trichloroethene	ND		5.0	1.1	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Xylenes, Total	ND		10	0.84	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
Styrene	ND		5.0	0.25	ug/Kg		02/14/25 12:07	02/17/25 22:24	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		02/14/25 12:07	02/17/25 22:24	1

Tentatively Identified Compound	*Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*	*02/14/25 12:07*	*02/17/25 22:24*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*	*02/14/25 12:07*	*02/17/25 22:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*02/14/25 12:07*	*02/17/25 22:24*	*1*
Toluene-d8 (Surr)	*90*		*71 - 125*	*02/14/25 12:07*	*02/17/25 22:24*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*02/14/25 12:07*	*02/17/25 22:24*	*1*

Lab Sample ID: LCS 480-739024/1-A
Matrix: Solid
Analysis Batch: 739146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	56.0		ug/Kg		112	77 - 121
1,1,2,2-Tetrachloroethane	50.0	42.5		ug/Kg		85	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.4		ug/Kg		113	60 - 140
1,1,2-Trichloroethane	50.0	43.5		ug/Kg		87	78 - 122
1,1-Dichloroethane	50.0	56.3		ug/Kg		113	73 - 126
1,1-Dichloroethene	50.0	54.3		ug/Kg		109	59 - 125
1,2,4-Trichlorobenzene	50.0	42.7		ug/Kg		85	64 - 120
1,2,4-Trimethylbenzene	50.0	43.8		ug/Kg		88	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	46.2		ug/Kg		92	63 - 124
1,2-Dichlorobenzene	50.0	41.2		ug/Kg		82	75 - 120
1,2-Dichloroethane	50.0	55.0		ug/Kg		110	77 - 122
1,2-Dichloropropane	50.0	54.6		ug/Kg		109	75 - 124
1,3,5-Trimethylbenzene	50.0	44.0		ug/Kg		88	74 - 120
1,3-Dichlorobenzene	50.0	40.9		ug/Kg		82	74 - 120
1,4-Dichlorobenzene	50.0	40.5		ug/Kg		81	73 - 120
2-Butanone (MEK)	250	305		ug/Kg		122	70 - 134
2-Hexanone	250	264		ug/Kg		106	59 - 130
4-Isopropyltoluene	50.0	43.4		ug/Kg		87	74 - 120
4-Methyl-2-pentanone (MIBK)	250	273		ug/Kg		109	65 - 133
Acetone	250	317		ug/Kg		127	61 - 137
Benzene	50.0	52.9		ug/Kg		106	79 - 127
Bromoform	50.0	43.5		ug/Kg		87	68 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-739024/1-A
Matrix: Solid
Analysis Batch: 739146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	55.0		ug/Kg		110	37 - 149
Carbon disulfide	50.0	52.3		ug/Kg		105	64 - 131
Carbon tetrachloride	50.0	55.8		ug/Kg		112	75 - 135
Chlorobenzene	50.0	42.1		ug/Kg		84	76 - 124
Dibromochloromethane	50.0	44.4		ug/Kg		89	76 - 125
Chloroethane	50.0	57.2		ug/Kg		114	69 - 135
Chloroform	50.0	53.0		ug/Kg		106	80 - 120
Chloromethane	50.0	58.2		ug/Kg		116	63 - 127
cis-1,2-Dichloroethene	50.0	52.7		ug/Kg		105	81 - 120
Cyclohexane	50.0	61.8	*+	ug/Kg		124	65 - 120
Bromodichloromethane	50.0	54.1		ug/Kg		108	80 - 122
Dichlorodifluoromethane	50.0	47.8		ug/Kg		96	57 - 142
Ethylbenzene	50.0	44.6		ug/Kg		89	80 - 120
1,2-Dibromoethane	50.0	42.5		ug/Kg		85	78 - 120
Isopropylbenzene	50.0	45.2		ug/Kg		90	72 - 120
Methyl acetate	100	118		ug/Kg		118	55 - 136
Methyl tert-butyl ether	50.0	54.5		ug/Kg		109	63 - 125
Methylcyclohexane	50.0	57.0		ug/Kg		114	60 - 140
Methylene Chloride	50.0	55.8		ug/Kg		112	61 - 127
m,p-Xylene	50.0	43.7		ug/Kg		87	70 - 130
Naphthalene	50.0	44.9		ug/Kg		90	38 - 137
n-Butylbenzene	50.0	44.6		ug/Kg		89	70 - 120
N-Propylbenzene	50.0	44.6		ug/Kg		89	70 - 130
o-Xylene	50.0	44.7		ug/Kg		89	70 - 130
sec-Butylbenzene	50.0	44.8		ug/Kg		90	74 - 120
Tetrachloroethene	50.0	44.1		ug/Kg		88	74 - 122
Toluene	50.0	43.6		ug/Kg		87	74 - 128
trans-1,2-Dichloroethene	50.0	54.8		ug/Kg		110	78 - 126
trans-1,3-Dichloropropene	50.0	43.4		ug/Kg		87	73 - 123
Trichloroethene	50.0	51.9		ug/Kg		104	77 - 129
Trichlorofluoromethane	50.0	59.3		ug/Kg		119	65 - 146
Vinyl chloride	50.0	57.2		ug/Kg		114	61 - 133
cis-1,3-Dichloropropene	50.0	49.9		ug/Kg		100	80 - 120
Styrene	50.0	42.6		ug/Kg		85	80 - 120
tert-Butylbenzene	50.0	43.2		ug/Kg		86	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*
Toluene-d8 (Surr)	*92*		*71 - 125*
Dibromofluoromethane (Surr)	*106*		*60 - 140*

Lab Sample ID: LCSD 480-739024/2-A
Matrix: Solid
Analysis Batch: 739146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 739024

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	50.8		ug/Kg		102	77 - 121	10	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-739024/2-A
Matrix: Solid
Analysis Batch: 739146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 739024

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	50.0	42.1		ug/Kg		84	80 - 120	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.6		ug/Kg		101	60 - 140	11	20
1,1,2-Trichloroethane	50.0	42.6		ug/Kg		85	78 - 122	2	20
1,1-Dichloroethane	50.0	52.4		ug/Kg		105	73 - 126	7	20
1,1-Dichloroethene	50.0	48.6		ug/Kg		97	59 - 125	11	20
1,2,4-Trichlorobenzene	50.0	40.7		ug/Kg		81	64 - 120	5	20
1,2,4-Trimethylbenzene	50.0	42.4		ug/Kg		85	74 - 120	3	20
1,2-Dibromo-3-Chloropropane	50.0	44.7		ug/Kg		89	63 - 124	3	20
1,2-Dichlorobenzene	50.0	40.9		ug/Kg		82	75 - 120	1	20
1,2-Dichloroethane	50.0	54.2		ug/Kg		108	77 - 122	1	20
1,2-Dichloropropane	50.0	52.9		ug/Kg		106	75 - 124	3	20
1,3,5-Trimethylbenzene	50.0	42.7		ug/Kg		85	74 - 120	3	20
1,3-Dichlorobenzene	50.0	39.9		ug/Kg		80	74 - 120	2	20
1,4-Dichlorobenzene	50.0	39.4		ug/Kg		79	73 - 120	3	20
2-Butanone (MEK)	250	300		ug/Kg		120	70 - 134	1	20
2-Hexanone	250	262		ug/Kg		105	59 - 130	1	20
4-Isopropyltoluene	50.0	41.3		ug/Kg		83	74 - 120	5	20
4-Methyl-2-pentanone (MIBK)	250	262		ug/Kg		105	65 - 133	4	20
Acetone	250	304		ug/Kg		122	61 - 137	4	20
Benzene	50.0	49.9		ug/Kg		100	79 - 127	6	20
Bromoform	50.0	43.1		ug/Kg		86	68 - 126	1	20
Bromomethane	50.0	50.2		ug/Kg		100	37 - 149	9	20
Carbon disulfide	50.0	46.5		ug/Kg		93	64 - 131	12	20
Carbon tetrachloride	50.0	50.7		ug/Kg		101	75 - 135	10	20
Chlorobenzene	50.0	41.0		ug/Kg		82	76 - 124	3	20
Dibromochloromethane	50.0	44.3		ug/Kg		89	76 - 125	0	20
Chloroethane	50.0	51.5		ug/Kg		103	69 - 135	11	20
Chloroform	50.0	50.5		ug/Kg		101	80 - 120	5	20
Chloromethane	50.0	51.5		ug/Kg		103	63 - 127	12	20
cis-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	81 - 120	5	20
Cyclohexane	50.0	54.5		ug/Kg		109	65 - 120	13	20
Bromodichloromethane	50.0	52.8		ug/Kg		106	80 - 122	2	20
Dichlorodifluoromethane	50.0	41.5		ug/Kg		83	57 - 142	14	20
Ethylbenzene	50.0	42.5		ug/Kg		85	80 - 120	5	20
1,2-Dibromoethane	50.0	42.6		ug/Kg		85	78 - 120	0	20
Isopropylbenzene	50.0	43.1		ug/Kg		86	72 - 120	5	20
Methyl acetate	100	113		ug/Kg		113	55 - 136	4	20
Methyl tert-butyl ether	50.0	52.3		ug/Kg		105	63 - 125	4	20
Methylcyclohexane	50.0	50.4		ug/Kg		101	60 - 140	12	20
Methylene Chloride	50.0	52.7		ug/Kg		105	61 - 127	6	20
m,p-Xylene	50.0	41.2		ug/Kg		82	70 - 130	6	20
Naphthalene	50.0	43.0		ug/Kg		86	38 - 137	4	20
n-Butylbenzene	50.0	42.4		ug/Kg		85	70 - 120	5	20
N-Propylbenzene	50.0	42.7		ug/Kg		85	70 - 130	4	20
o-Xylene	50.0	42.1		ug/Kg		84	70 - 130	6	20
sec-Butylbenzene	50.0	42.6		ug/Kg		85	74 - 120	5	20
Tetrachloroethene	50.0	41.0		ug/Kg		82	74 - 122	7	20
Toluene	50.0	42.4		ug/Kg		85	74 - 128	3	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-739024/2-A
Matrix: Solid
Analysis Batch: 739146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 739024

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			50.0	50.1		ug/Kg		100	78 - 126	9	20
trans-1,3-Dichloropropene			50.0	44.9		ug/Kg		90	73 - 123	3	20
Trichloroethene			50.0	49.6		ug/Kg		99	77 - 129	5	20
Trichlorofluoromethane			50.0	53.1		ug/Kg		106	65 - 146	11	20
Vinyl chloride			50.0	50.8		ug/Kg		102	61 - 133	12	20
cis-1,3-Dichloropropene			50.0	50.5		ug/Kg		101	80 - 120	1	20
Styrene			50.0	41.3		ug/Kg		83	80 - 120	3	20
tert-Butylbenzene			50.0	41.9		ug/Kg		84	73 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*
Toluene-d8 (Surr)	*92*		*71 - 125*
Dibromofluoromethane (Surr)	*102*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-739521/1-A
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Chloronaphthalene	ND		170	28	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
1,4-Dioxane	ND		100	55	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Chlorophenol	ND		330	31	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Methylnaphthalene	ND		170	34	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Methylphenol	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Nitroaniline	ND		330	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Nitrophenol	ND		170	48	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
3-Nitroaniline	ND		330	47	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Chloroaniline	ND		170	42	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Methylphenol	ND		330	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Nitroaniline	ND		330	89	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Nitrophenol	ND		330	120	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Acenaphthene	ND		170	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-739521/1-A
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Acetophenone	ND		170	23	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Anthracene	ND		170	42	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Atrazine	ND		170	59	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzaldehyde	ND		170	140	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzo[a]anthracene	ND		170	17	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzo[a]pyrene	ND		170	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Caprolactam	ND		170	51	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Carbazole	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Chrysene	ND		170	38	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Dibenzofuran	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Diethyl phthalate	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Dimethyl phthalate	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Fluoranthene	ND		170	18	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Fluorene	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Hexachlorobenzene	ND		170	23	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Hexachlorobutadiene	ND		170	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Hexachloroethane	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Isophorone	ND		170	36	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Naphthalene	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Nitrobenzene	ND		170	19	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Pentachlorophenol	ND		330	170	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Phenanthrene	ND		170	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Phenol	ND		170	26	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Pyrene	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1190*	*T J*	*ug/Kg*		*2.00*	*N/A*	*02/25/25 07:05*	*02/25/25 16:07*	*1*
Unknown	*1930*	*T J*	*ug/Kg*		*3.48*	*N/A*	*02/25/25 07:05*	*02/25/25 16:07*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*26 - 143*	*02/25/25 07:05*	*02/25/25 16:07*	*1*
2-Fluorobiphenyl	*92*		*50 - 121*	*02/25/25 07:05*	*02/25/25 16:07*	*1*
2-Fluorophenol	*72*		*36 - 120*	*02/25/25 07:05*	*02/25/25 16:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-739521/1-A
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739521

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	82		40 - 121	02/25/25 07:05	02/25/25 16:07	1
p-Terphenyl-d14	98		46 - 143	02/25/25 07:05	02/25/25 16:07	1
Phenol-d5	78		41 - 120	02/25/25 07:05	02/25/25 16:07	1

Lab Sample ID: LCS 480-739521/2-A
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	1330	1320		ug/Kg		99	59 - 120
bis (2-chloroisopropyl) ether	1330	1190		ug/Kg		89	44 - 120
2,4,5-Trichlorophenol	1330	1260		ug/Kg		94	59 - 126
2,4,6-Trichlorophenol	1330	1310		ug/Kg		98	59 - 123
2,4-Dichlorophenol	1330	1160		ug/Kg		87	61 - 120
2,4-Dimethylphenol	1330	1150		ug/Kg		86	59 - 120
2,4-Dinitrophenol	2670	2610		ug/Kg		98	41 - 146
2,4-Dinitrotoluene	1330	1240		ug/Kg		93	63 - 120
2,6-Dinitrotoluene	1330	1280		ug/Kg		96	66 - 120
2-Chloronaphthalene	1330	1340		ug/Kg		101	57 - 120
1,4-Dioxane	1330	699		ug/Kg		52	23 - 120
2-Chlorophenol	1330	1100		ug/Kg		82	53 - 120
2-Methylnaphthalene	1330	1130		ug/Kg		85	59 - 120
2-Methylphenol	1330	1030		ug/Kg		77	54 - 120
2-Nitroaniline	1330	1230		ug/Kg		92	61 - 120
2-Nitrophenol	1330	1180		ug/Kg		89	56 - 120
3,3'-Dichlorobenzidine	1330	998		ug/Kg		75	54 - 120
3-Nitroaniline	1330	980		ug/Kg		73	48 - 120
4,6-Dinitro-2-methylphenol	2670	2620		ug/Kg		98	49 - 122
4-Bromophenyl phenyl ether	1330	1390		ug/Kg		104	58 - 120
4-Chloro-3-methylphenol	1330	1080		ug/Kg		81	61 - 120
4-Chloroaniline	1330	953		ug/Kg		71	38 - 120
4-Chlorophenyl phenyl ether	1330	1250		ug/Kg		94	63 - 124
4-Methylphenol	1330	1060		ug/Kg		80	55 - 120
4-Nitroaniline	1330	1120		ug/Kg		84	56 - 120
4-Nitrophenol	2670	2230		ug/Kg		84	43 - 147
Acenaphthene	1330	1290		ug/Kg		96	62 - 120
Acenaphthylene	1330	1370		ug/Kg		103	58 - 121
Acetophenone	1330	1050		ug/Kg		79	54 - 120
Anthracene	1330	1330		ug/Kg		100	62 - 120
Atrazine	1330	1200		ug/Kg		90	60 - 127
Benzaldehyde	1330	1120		ug/Kg		84	10 - 150
Benzo[a]anthracene	1330	1320		ug/Kg		99	65 - 120
Benzo[a]pyrene	1330	1380		ug/Kg		103	64 - 120
Benzo[b]fluoranthene	1330	1290		ug/Kg		96	64 - 120
Benzo[g,h,i]perylene	1330	1430		ug/Kg		107	45 - 145
Benzo[k]fluoranthene	1330	1510		ug/Kg		113	65 - 120
Bis(2-chloroethoxy)methane	1330	1170		ug/Kg		88	55 - 120
Bis(2-chloroethyl)ether	1330	1080		ug/Kg		81	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-739521/2-A
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	1330	1320		ug/Kg		99	61 - 133
Butyl benzyl phthalate	1330	1320		ug/Kg		99	61 - 129
Caprolactam	1330	975		ug/Kg		73	47 - 120
Carbazole	1330	1260		ug/Kg		95	65 - 120
Chrysene	1330	1290		ug/Kg		97	64 - 120
Di-n-butyl phthalate	1330	1280		ug/Kg		96	58 - 130
Di-n-octyl phthalate	1330	1270		ug/Kg		95	57 - 133
Dibenz(a,h)anthracene	1330	1420		ug/Kg		107	54 - 132
Dibenzofuran	1330	1240		ug/Kg		93	63 - 120
Diethyl phthalate	1330	1240		ug/Kg		93	66 - 120
Dimethyl phthalate	1330	1260		ug/Kg		95	65 - 124
Fluoranthene	1330	1310		ug/Kg		98	62 - 120
Fluorene	1330	1270		ug/Kg		95	63 - 120
Hexachlorobenzene	1330	1330		ug/Kg		100	60 - 120
Hexachlorobutadiene	1330	1150		ug/Kg		86	45 - 120
Hexachlorocyclopentadiene	1330	1310		ug/Kg		98	47 - 120
Hexachloroethane	1330	1010		ug/Kg		76	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1420		ug/Kg		106	56 - 134
Isophorone	1330	1170		ug/Kg		88	56 - 120
N-Nitrosodi-n-propylamine	1330	1070		ug/Kg		80	52 - 120
N-Nitrosodiphenylamine	1330	1350		ug/Kg		101	51 - 128
Naphthalene	1330	1150		ug/Kg		86	55 - 120
Nitrobenzene	1330	1150		ug/Kg		87	54 - 120
Pentachlorophenol	2670	2520		ug/Kg		94	10 - 120
Phenanthrene	1330	1310		ug/Kg		98	60 - 120
Phenol	1330	1050		ug/Kg		79	53 - 120
Pyrene	1330	1440		ug/Kg		108	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*26 - 143*
2-Fluorobiphenyl	*100*		*50 - 121*
2-Fluorophenol	*77*		*36 - 120*
Nitrobenzene-d5	*87*		*40 - 121*
p-Terphenyl-d14	*103*		*46 - 143*
Phenol-d5	*80*		*41 - 120*

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	ND		1950	1930		ug/Kg	☼	99	58 - 120
bis (2-chloroisopropyl) ether	ND		1950	1840		ug/Kg	☼	94	31 - 120
2,4,5-Trichlorophenol	ND		1950	1940		ug/Kg	☼	100	46 - 120
2,4,6-Trichlorophenol	ND		1950	1920		ug/Kg	☼	99	41 - 123
2,4-Dichlorophenol	ND		1950	1800		ug/Kg	☼	93	45 - 120
2,4-Dimethylphenol	ND		1950	1830		ug/Kg	☼	94	52 - 120
2,4-Dinitrophenol	ND		3890	3710		ug/Kg	☼	95	41 - 146

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	ND		1950	1870		ug/Kg	☼	96	63 - 125
2,6-Dinitrotoluene	ND		1950	1950		ug/Kg	☼	100	66 - 120
2-Chloronaphthalene	ND		1950	1900		ug/Kg	☼	98	57 - 120
1,4-Dioxane	ND		1950	932		ug/Kg	☼	48	13 - 120
2-Chlorophenol	ND		1950	1700		ug/Kg	☼	87	43 - 120
2-Methylnaphthalene	ND		1950	1810		ug/Kg	☼	93	55 - 120
2-Methylphenol	ND		1950	1700		ug/Kg	☼	87	48 - 120
2-Nitroaniline	ND		1950	1910		ug/Kg	☼	98	61 - 120
2-Nitrophenol	ND		1950	1880		ug/Kg	☼	96	37 - 120
3,3'-Dichlorobenzidine	ND		1950	1590		ug/Kg	☼	82	37 - 126
3-Nitroaniline	ND		1950	1560		ug/Kg	☼	80	48 - 120
4,6-Dinitro-2-methylphenol	ND		3890	3980		ug/Kg	☼	102	23 - 149
4-Bromophenyl phenyl ether	ND		1950	2070		ug/Kg	☼	106	58 - 120
4-Chloro-3-methylphenol	ND		1950	1800		ug/Kg	☼	92	49 - 125
4-Chloroaniline	ND		1950	1450		ug/Kg	☼	75	38 - 120
4-Chlorophenyl phenyl ether	ND		1950	1840		ug/Kg	☼	94	63 - 124
4-Methylphenol	ND		1950	1730		ug/Kg	☼	89	50 - 120
4-Nitroaniline	ND		1950	1690		ug/Kg	☼	87	47 - 120
4-Nitrophenol	ND		3890	3430		ug/Kg	☼	88	31 - 147
Acenaphthene	ND		1950	1940		ug/Kg	☼	100	60 - 120
Acenaphthylene	ND		1950	2000		ug/Kg	☼	103	58 - 121
Acetophenone	ND		1950	1670		ug/Kg	☼	86	47 - 120
Anthracene	81	J	1950	2000		ug/Kg	☼	98	62 - 120
Atrazine	ND		1950	1870		ug/Kg	☼	96	60 - 150
Benzaldehyde	ND		1950	1770		ug/Kg	☼	91	10 - 150
Benzo[a]anthracene	210	J	1950	2130		ug/Kg	☼	99	65 - 120
Benzo[a]pyrene	200	J	1950	2190		ug/Kg	☼	103	64 - 120
Benzo[b]fluoranthene	240	J	1950	2230		ug/Kg	☼	102	10 - 150
Benzo[g,h,i]perylene	120	J	1950	2210		ug/Kg	☼	108	45 - 145
Benzo[k]fluoranthene	110	J	1950	2080		ug/Kg	☼	101	23 - 150
Bis(2-chloroethoxy)methane	ND		1950	1830		ug/Kg	☼	94	52 - 120
Bis(2-chloroethyl)ether	ND		1950	1670		ug/Kg	☼	86	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1950	2030		ug/Kg	☼	105	61 - 133
Butyl benzyl phthalate	ND		1950	2030		ug/Kg	☼	104	61 - 120
Caprolactam	ND		1950	1710		ug/Kg	☼	88	37 - 133
Carbazole	29	J	1950	1900		ug/Kg	☼	96	59 - 120
Chrysene	210	J	1950	2060		ug/Kg	☼	95	64 - 120
Di-n-butyl phthalate	ND		1950	1990		ug/Kg	☼	102	58 - 130
Di-n-octyl phthalate	ND		1950	2050		ug/Kg	☼	105	57 - 133
Dibenz(a,h)anthracene	ND		1950	2130		ug/Kg	☼	109	54 - 132
Dibenzofuran	ND		1950	1860		ug/Kg	☼	96	62 - 120
Diethyl phthalate	ND		1950	1920		ug/Kg	☼	99	66 - 120
Dimethyl phthalate	ND		1950	1910		ug/Kg	☼	98	65 - 124
Fluoranthene	480		1950	2250		ug/Kg	☼	91	62 - 120
Fluorene	33	J	1950	1900		ug/Kg	☼	96	63 - 120
Hexachlorobenzene	ND		1950	1930		ug/Kg	☼	99	60 - 120
Hexachlorobutadiene	ND		1950	1730		ug/Kg	☼	89	45 - 120
Hexachlorocyclopentadiene	ND		1950	1870		ug/Kg	☼	96	31 - 120
Hexachloroethane	ND		1950	1520		ug/Kg	☼	78	21 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	100	J	1950	2180		ug/Kg	☼	107	56 - 134
Isophorone	ND		1950	1860		ug/Kg	☼	96	56 - 120
N-Nitrosodi-n-propylamine	ND		1950	1740		ug/Kg	☼	89	46 - 120
N-Nitrosodiphenylamine	ND		1950	2010		ug/Kg	☼	103	20 - 128
Naphthalene	ND		1950	1750		ug/Kg	☼	90	46 - 120
Nitrobenzene	ND		1950	1790		ug/Kg	☼	92	49 - 120
Pentachlorophenol	ND		3890	4010		ug/Kg	☼	103	10 - 136
Phenanthrene	340		1950	2120		ug/Kg	☼	92	60 - 122
Phenol	ND		1950	1680		ug/Kg	☼	86	50 - 120
Pyrene	370		1950	2310		ug/Kg	☼	100	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*107*		*26 - 143*
2-Fluorobiphenyl	*100*		*50 - 121*
2-Fluorophenol	*82*		*36 - 120*
Nitrobenzene-d5	*92*		*40 - 121*
p-Terphenyl-d14	*101*		*46 - 143*
Phenol-d5	*88*		*41 - 120*

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Biphenyl	ND		1930	1900		ug/Kg	☼	98	58 - 120	2	20
bis (2-chloroisopropyl) ether	ND		1930	1850		ug/Kg	☼	96	31 - 120	1	24
2,4,5-Trichlorophenol	ND		1930	1980		ug/Kg	☼	103	46 - 120	2	18
2,4,6-Trichlorophenol	ND		1930	1910		ug/Kg	☼	99	41 - 123	1	19
2,4-Dichlorophenol	ND		1930	1860		ug/Kg	☼	96	45 - 120	3	19
2,4-Dimethylphenol	ND		1930	1810		ug/Kg	☼	94	52 - 120	1	42
2,4-Dinitrophenol	ND		3860	4100		ug/Kg	☼	106	41 - 146	10	22
2,4-Dinitrotoluene	ND		1930	1950		ug/Kg	☼	101	63 - 125	4	20
2,6-Dinitrotoluene	ND		1930	1970		ug/Kg	☼	102	66 - 120	1	15
2-Chloronaphthalene	ND		1930	1880		ug/Kg	☼	98	57 - 120	1	21
1,4-Dioxane	ND		1930	949		ug/Kg	☼	49	13 - 120	2	50
2-Chlorophenol	ND		1930	1710		ug/Kg	☼	89	43 - 120	1	25
2-Methylnaphthalene	ND		1930	1790		ug/Kg	☼	93	55 - 120	1	21
2-Methylphenol	ND		1930	1710		ug/Kg	☼	89	48 - 120	1	27
2-Nitroaniline	ND		1930	1940		ug/Kg	☼	100	61 - 120	1	15
2-Nitrophenol	ND		1930	1840		ug/Kg	☼	95	37 - 120	2	18
3,3'-Dichlorobenzidine	ND		1930	1620		ug/Kg	☼	84	37 - 126	2	25
3-Nitroaniline	ND		1930	1690		ug/Kg	☼	88	48 - 120	8	19
4,6-Dinitro-2-methylphenol	ND		3860	4010		ug/Kg	☼	104	23 - 149	1	15
4-Bromophenyl phenyl ether	ND		1930	2010		ug/Kg	☼	104	58 - 120	3	15
4-Chloro-3-methylphenol	ND		1930	1820		ug/Kg	☼	94	49 - 125	1	27
4-Chloroaniline	ND		1930	1570		ug/Kg	☼	81	38 - 120	7	22
4-Chlorophenyl phenyl ether	ND		1930	1880		ug/Kg	☼	97	63 - 124	2	16
4-Methylphenol	ND		1930	1790		ug/Kg	☼	93	50 - 120	3	24

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitroaniline	ND		1930	1820		ug/Kg	☼	94	47 - 120	7	24
4-Nitrophenol	ND		3860	3670		ug/Kg	☼	95	31 - 147	7	25
Acenaphthene	ND		1930	1930		ug/Kg	☼	100	60 - 120	1	35
Acenaphthylene	ND		1930	2010		ug/Kg	☼	104	58 - 121	0	18
Acetophenone	ND		1930	1740		ug/Kg	☼	90	47 - 120	4	20
Anthracene	81	J	1930	2030		ug/Kg	☼	101	62 - 120	1	15
Atrazine	ND		1930	1980		ug/Kg	☼	103	60 - 150	6	20
Benzaldehyde	ND		1930	1740		ug/Kg	☼	90	10 - 150	2	20
Benzo[a]anthracene	210	J	1930	2110		ug/Kg	☼	99	65 - 120	1	15
Benzo[a]pyrene	200	J	1930	2170		ug/Kg	☼	102	64 - 120	1	15
Benzo[b]fluoranthene	240	J	1930	2310		ug/Kg	☼	107	10 - 150	3	15
Benzo[g,h,i]perylene	120	J	1930	2200		ug/Kg	☼	108	45 - 145	1	15
Benzo[k]fluoranthene	110	J	1930	1990		ug/Kg	☼	98	23 - 150	4	22
Bis(2-chloroethoxy)methane	ND		1930	1780		ug/Kg	☼	92	52 - 120	3	17
Bis(2-chloroethyl)ether	ND		1930	1680		ug/Kg	☼	87	45 - 120	0	21
Bis(2-ethylhexyl) phthalate	ND		1930	2010		ug/Kg	☼	104	61 - 133	1	15
Butyl benzyl phthalate	ND		1930	2010		ug/Kg	☼	104	61 - 120	1	16
Caprolactam	ND		1930	1830		ug/Kg	☼	95	37 - 133	7	20
Carbazole	29	J	1930	2030		ug/Kg	☼	104	59 - 120	7	20
Chrysene	210	J	1930	2040		ug/Kg	☼	94	64 - 120	1	15
Di-n-butyl phthalate	ND		1930	2000		ug/Kg	☼	104	58 - 130	1	15
Di-n-octyl phthalate	ND		1930	2000		ug/Kg	☼	103	57 - 133	3	16
Dibenz(a,h)anthracene	ND		1930	2110		ug/Kg	☼	110	54 - 132	1	15
Dibenzofuran	ND		1930	1890		ug/Kg	☼	98	62 - 120	2	15
Diethyl phthalate	ND		1930	1970		ug/Kg	☼	102	66 - 120	2	15
Dimethyl phthalate	ND		1930	1980		ug/Kg	☼	102	65 - 124	3	15
Fluoranthene	480		1930	2290		ug/Kg	☼	94	62 - 120	2	15
Fluorene	33	J	1930	1960		ug/Kg	☼	100	63 - 120	3	15
Hexachlorobenzene	ND		1930	1970		ug/Kg	☼	102	60 - 120	2	15
Hexachlorobutadiene	ND		1930	1650		ug/Kg	☼	85	45 - 120	5	44
Hexachlorocyclopentadiene	ND		1930	1660		ug/Kg	☼	86	31 - 120	12	49
Hexachloroethane	ND		1930	1480		ug/Kg	☼	77	21 - 120	2	46
Indeno[1,2,3-cd]pyrene	100	J	1930	2160		ug/Kg	☼	107	56 - 134	1	15
Isophorone	ND		1930	1860		ug/Kg	☼	97	56 - 120	0	17
N-Nitrosodi-n-propylamine	ND		1930	1780		ug/Kg	☼	92	46 - 120	2	31
N-Nitrosodiphenylamine	ND		1930	2030		ug/Kg	☼	105	20 - 128	1	15
Naphthalene	ND		1930	1710		ug/Kg	☼	88	46 - 120	2	29
Nitrobenzene	ND		1930	1740		ug/Kg	☼	90	49 - 120	3	24
Pentachlorophenol	ND		3860	4020		ug/Kg	☼	104	10 - 136	0	35
Phenanthrene	340		1930	2130		ug/Kg	☼	93	60 - 122	0	15
Phenol	ND		1930	1700		ug/Kg	☼	88	50 - 120	1	35
Pyrene	370		1930	2240		ug/Kg	☼	97	61 - 133	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*106*		*26 - 143*
2-Fluorobiphenyl	*98*		*50 - 121*
2-Fluorophenol	*83*		*36 - 120*
Nitrobenzene-d5	*91*		*40 - 121*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739521

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl-d14	*102*		*46 - 143*
Phenol-d5	*89*		*41 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-739397/1-A
Matrix: Solid
Analysis Batch: 739473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
4,4'-DDT	ND		1.7	0.39	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Aldrin	ND		1.7	0.41	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
alpha-BHC	ND		1.7	0.30	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
cis-Chlordane	ND		1.7	0.83	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
beta-BHC	ND		1.7	0.30	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
delta-BHC	ND		1.7	0.31	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Dieldrin	ND		1.7	0.40	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endosulfan I	ND		1.7	0.32	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endosulfan II	ND		1.7	0.30	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endrin	ND		1.7	0.33	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endrin aldehyde	ND		1.7	0.43	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endrin ketone	ND		1.7	0.41	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
gamma-BHC (Lindane)	ND		1.7	0.31	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
trans-Chlordane	ND		1.7	0.53	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Heptachlor	ND		1.7	0.36	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Methoxychlor	ND		1.7	0.34	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Toxaphene	ND		17	9.7	ug/Kg		02/21/25 08:39	02/24/25 10:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*45 - 120*	*02/21/25 08:39*	*02/24/25 10:05*	*1*
DCB Decachlorobiphenyl	*104*		*45 - 120*	*02/21/25 08:39*	*02/24/25 10:05*	*1*
Tetrachloro-m-xylene	*78*		*30 - 124*	*02/21/25 08:39*	*02/24/25 10:05*	*1*
Tetrachloro-m-xylene	*85*		*30 - 124*	*02/21/25 08:39*	*02/24/25 10:05*	*1*

Lab Sample ID: LCS 480-739397/2-A
Matrix: Solid
Analysis Batch: 739473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	17.4		ug/Kg		105	56 - 120
4,4'-DDE	16.7	14.2		ug/Kg		85	44 - 120
4,4'-DDT	16.7	15.8		ug/Kg		95	38 - 120
Aldrin	16.7	15.6		ug/Kg		94	38 - 120
alpha-BHC	16.7	13.0		ug/Kg		78	39 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-739397/2-A
Matrix: Solid
Analysis Batch: 739473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-Chlordane	16.7	14.5		ug/Kg		87	47 - 120
beta-BHC	16.7	16.6		ug/Kg		100	40 - 120
delta-BHC	16.7	15.7		ug/Kg		94	45 - 120
Dieldrin	16.7	17.7		ug/Kg		106	58 - 120
Endosulfan I	16.7	17.5		ug/Kg		105	49 - 120
Endosulfan II	16.7	18.0		ug/Kg		108	55 - 120
Endosulfan sulfate	16.7	16.7		ug/Kg		100	49 - 124
Endrin	16.7	17.6		ug/Kg		106	58 - 120
Endrin aldehyde	16.7	14.5		ug/Kg		87	37 - 121
Endrin ketone	16.7	16.6		ug/Kg		99	46 - 123
gamma-BHC (Lindane)	16.7	14.7		ug/Kg		88	50 - 120
trans-Chlordane	16.7	16.1		ug/Kg		97	48 - 120
Heptachlor	16.7	16.9		ug/Kg		102	50 - 120
Heptachlor epoxide	16.7	17.7		ug/Kg		106	50 - 120
Methoxychlor	16.7	16.9		ug/Kg		102	58 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*95*		*45 - 120*
DCB Decachlorobiphenyl	*103*		*45 - 120*
Tetrachloro-m-xylene	*82*		*30 - 124*
Tetrachloro-m-xylene	*83*		*30 - 124*

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 739473

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739397

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	ND		24.2	23.4	J	ug/Kg	☼	97	37 - 126
4,4'-DDE	ND		24.2	19.5	J	ug/Kg	☼	81	34 - 120
4,4'-DDT	ND		24.2	24.3		ug/Kg	☼	101	43 - 123
Aldrin	ND		24.2	21.3	J	ug/Kg	☼	88	37 - 125
alpha-BHC	ND		24.2	22.0	J	ug/Kg	☼	91	39 - 120
cis-Chlordane	ND		24.2	21.9	J	ug/Kg	☼	90	35 - 120
beta-BHC	ND		24.2	18.8	J	ug/Kg	☼	78	36 - 120
delta-BHC	ND		24.2	23.7	J	ug/Kg	☼	98	34 - 120
Dieldrin	ND		24.2	24.7		ug/Kg	☼	102	45 - 120
Endosulfan I	ND		24.2	22.4	J	ug/Kg	☼	93	39 - 120
Endosulfan II	ND		24.2	25.2		ug/Kg	☼	104	34 - 126
Endosulfan sulfate	ND		24.2	18.1	J	ug/Kg	☼	75	27 - 130
Endrin	ND		24.2	23.4	J	ug/Kg	☼	97	47 - 121
Endrin aldehyde	ND		24.2	13.1	J	ug/Kg	☼	54	33 - 123
Endrin ketone	ND		24.2	22.6	J	ug/Kg	☼	93	43 - 126
gamma-BHC (Lindane)	ND		24.2	22.9	J	ug/Kg	☼	95	50 - 120
trans-Chlordane	ND		24.2	19.1	J	ug/Kg	☼	79	31 - 120
Heptachlor	ND		24.2	23.1	J	ug/Kg	☼	95	42 - 120
Heptachlor epoxide	ND		24.2	21.0	J	ug/Kg	☼	87	40 - 120
Methoxychlor	ND		24.2	19.1	J	ug/Kg	☼	79	44 - 150

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 739473

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739397

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*86*		*45 - 120*
DCB Decachlorobiphenyl	*114*		*45 - 120*
Tetrachloro-m-xylene	*72*		*30 - 124*
Tetrachloro-m-xylene	*82*		*30 - 124*

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 739473

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739397

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	ND		24.5	24.6	J	ug/Kg	☼	100	37 - 126	5	21
4,4'-DDE	ND		24.5	20.3	J	ug/Kg	☼	83	34 - 120	4	18
4,4'-DDT	ND		24.5	24.1	J	ug/Kg	☼	99	43 - 123	1	25
Aldrin	ND		24.5	20.6	J	ug/Kg	☼	84	37 - 125	3	12
alpha-BHC	ND		24.5	22.1	J	ug/Kg	☼	90	39 - 120	1	15
cis-Chlordane	ND		24.5	21.7	J	ug/Kg	☼	89	35 - 120	1	23
beta-BHC	ND		24.5	20.1	J	ug/Kg	☼	82	36 - 120	7	19
delta-BHC	ND		24.5	23.4	J	ug/Kg	☼	96	34 - 120	1	14
Dieldrin	ND		24.5	25.5		ug/Kg	☼	104	45 - 120	3	12
Endosulfan I	ND		24.5	22.7	J	ug/Kg	☼	93	39 - 120	1	18
Endosulfan II	ND		24.5	24.9	J	ug/Kg	☼	102	34 - 126	1	26
Endosulfan sulfate	ND		24.5	18.6	J	ug/Kg	☼	76	27 - 130	3	35
Endrin	ND		24.5	24.2	J	ug/Kg	☼	99	47 - 121	3	20
Endrin aldehyde	ND		24.5	15.1	J	ug/Kg	☼	62	33 - 123	14	47
Endrin ketone	ND		24.5	21.9	J	ug/Kg	☼	90	43 - 126	3	37
gamma-BHC (Lindane)	ND		24.5	23.5	J	ug/Kg	☼	96	50 - 120	2	12
trans-Chlordane	ND		24.5	19.4	J	ug/Kg	☼	79	31 - 120	1	15
Heptachlor	ND		24.5	22.6	J	ug/Kg	☼	92	42 - 120	2	22
Heptachlor epoxide	ND		24.5	21.2	J	ug/Kg	☼	87	40 - 120	1	15
Methoxychlor	ND		24.5	20.8	J	ug/Kg	☼	85	44 - 150	8	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*75*		*45 - 120*
DCB Decachlorobiphenyl	*107*		*45 - 120*
Tetrachloro-m-xylene	*93*		*30 - 124*
Tetrachloro-m-xylene	*77*		*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-739108/1-A
Matrix: Solid
Analysis Batch: 739195

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg		02/17/25 07:16	02/18/25 11:58	1
PCB-1221	ND		0.25	0.049	mg/Kg		02/17/25 07:16	02/18/25 11:58	1
PCB-1232	ND		0.25	0.049	mg/Kg		02/17/25 07:16	02/18/25 11:58	1
PCB-1242	ND		0.25	0.049	mg/Kg		02/17/25 07:16	02/18/25 11:58	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-739108/1-A
Matrix: Solid
Analysis Batch: 739195

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		0.25	0.049	mg/Kg		02/17/25 07:16	02/18/25 11:58	1
PCB-1254	ND		0.25	0.12	mg/Kg		02/17/25 07:16	02/18/25 11:58	1
PCB-1260	ND		0.25	0.12	mg/Kg		02/17/25 07:16	02/18/25 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*60 - 154*	*02/17/25 07:16*	*02/18/25 11:58*	*1*
Tetrachloro-m-xylene	*99*		*60 - 154*	*02/17/25 07:16*	*02/18/25 11:58*	*1*
DCB Decachlorobiphenyl	*148*		*65 - 174*	*02/17/25 07:16*	*02/18/25 11:58*	*1*
DCB Decachlorobiphenyl	*115*		*65 - 174*	*02/17/25 07:16*	*02/18/25 11:58*	*1*

Lab Sample ID: LCS 480-739108/2-A
Matrix: Solid
Analysis Batch: 739195

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.50	3.29		mg/Kg		131	51 - 185
PCB-1260	2.50	3.45		mg/Kg		138	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*112*		*60 - 154*
Tetrachloro-m-xylene	*121*		*60 - 154*
DCB Decachlorobiphenyl	*163*		*65 - 174*
DCB Decachlorobiphenyl	*140*		*65 - 174*

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 739195

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		3.55	4.20		mg/Kg	☼	119	50 - 177
PCB-1260	ND		3.55	4.34		mg/Kg	☼	122	33 - 200

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*110*		*60 - 154*
Tetrachloro-m-xylene	*120*		*60 - 154*
DCB Decachlorobiphenyl	*154*		*65 - 174*
DCB Decachlorobiphenyl	*137*		*65 - 174*

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 739195

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739108

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		3.32	3.71		mg/Kg	☼	111	50 - 177	13	50
PCB-1260	ND		3.32	3.83		mg/Kg	☼	115	33 - 200	13	50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 739195

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739108

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	*110*		*60 - 154*
Tetrachloro-m-xylene	*119*		*60 - 154*
DCB Decachlorobiphenyl	*161*		*65 - 174*
DCB Decachlorobiphenyl	*137*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-739471/1-A
Matrix: Solid
Analysis Batch: 739632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.3	ug/Kg		02/24/25 06:56	02/26/25 11:59	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg		02/24/25 06:56	02/26/25 11:59	1
2,4-D	ND		17	11	ug/Kg		02/24/25 06:56	02/26/25 11:59	1
Dichlorprop	ND		17	8.3	ug/Kg		02/24/25 06:56	02/26/25 11:59	1
Pentachlorophenol	ND		17	5.4	ug/Kg		02/24/25 06:56	02/26/25 11:59	1
Picloram	ND		17	7.2	ug/Kg		02/24/25 06:56	02/26/25 11:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*78*		*28 - 129*	*02/24/25 06:56*	*02/26/25 11:59*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*02/24/25 06:56*	*02/26/25 11:59*	*1*

Lab Sample ID: LCS 480-739471/2-A
Matrix: Solid
Analysis Batch: 739632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	66.7	45.3		ug/Kg		68	41 - 120
Silvex (2,4,5-TP)	66.7	46.2		ug/Kg		69	39 - 125
2,4-D	66.7	46.5		ug/Kg		70	40 - 120
Dichlorprop	66.7	48.7		ug/Kg		73	34 - 121
Pentachlorophenol	66.7	13.2	J	ug/Kg		20	10 - 120
Picloram	66.7	44.2		ug/Kg		66	22 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 739632

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	ND		97.2	66.9		ug/Kg	☼	69	29 - 123
Silvex (2,4,5-TP)	ND		97.2	70.1		ug/Kg	☼	72	22 - 140
2,4-D	ND		97.2	69.9		ug/Kg	☼	72	32 - 115
Dichlorprop	ND		97.2	71.8		ug/Kg	☼	74	28 - 125

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 739632

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	ND		97.2	58.7		ug/Kg	☼	60	10 - 130
Picloram	ND		97.2	67.0		ug/Kg	☼	69	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 739632

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739471

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	ND		97.5	67.2		ug/Kg	☼	69	29 - 123	0	50
Silvex (2,4,5-TP)	ND		97.5	68.9		ug/Kg	☼	71	22 - 140	2	50
2,4-D	ND		97.5	69.7		ug/Kg	☼	72	32 - 115	0	50
Dichlorprop	ND		97.5	75.5		ug/Kg	☼	77	28 - 125	5	50
Pentachlorophenol	ND		97.5	46.3		ug/Kg	☼	47	10 - 130	24	50
Picloram	ND		97.5	67.0		ug/Kg	☼	69	10 - 150	0	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*85*		*28 - 129*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-645106/1-A
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.13	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluoropentanoic acid (PFPeA)	ND		0.25	0.063	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorohexanoic acid (PFHxA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluoroheptanoic acid (PFHpA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorooctanoic acid (PFOA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorononanoic acid (PFNA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorodecanoic acid (PFDA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluoroundecanoic acid (PFUnA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorododecanoic acid (PFDoA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorononanesulfonic acid (PFNS)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-645106/1-A
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.50	0.13	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.50	0.13	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.50	0.13	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.3	0.31	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.3	0.31	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.50	0.13	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.50	0.13	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.25	0.063	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.25	0.063	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.50	0.13	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.50	0.13	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.25	0.063	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.63	0.16	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.1	0.78	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.1	0.78	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.13	0.031	ug/Kg		02/17/25 13:48	02/18/25 12:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.25	0.063	ug/Kg		02/17/25 13:48	02/18/25 12:31	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*105*		*20 - 150*	*02/17/25 13:48*	*02/18/25 12:31*	*1*
13C5 PFPeA	*98.1*		*20 - 150*	*02/17/25 13:48*	*02/18/25 12:31*	*1*
13C5 PFHxA	*100*		*20 - 150*	*02/17/25 13:48*	*02/18/25 12:31*	*1*
13C4 PFHpA	*107*		*20 - 150*	*02/17/25 13:48*	*02/18/25 12:31*	*1*
13C8 PFOA	*92.9*		*20 - 150*	*02/17/25 13:48*	*02/18/25 12:31*	*1*
13C9 PFNA	*108*		*20 - 150*	*02/17/25 13:48*	*02/18/25 12:31*	*1*
13C6 PFDA	*102*		*20 - 150*	*02/17/25 13:48*	*02/18/25 12:31*	*1*
13C7 PFUnA	*107*		*20 - 150*	*02/17/25 13:48*	*02/18/25 12:31*	*1*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-645106/1-A
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645106

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	92.4		20 - 150	02/17/25 13:48	02/18/25 12:31	1
13C3 PFBS	96.0		20 - 150	02/17/25 13:48	02/18/25 12:31	1
13C3 PFHxS	95.7		20 - 150	02/17/25 13:48	02/18/25 12:31	1
13C8 PFOS	97.4		20 - 150	02/17/25 13:48	02/18/25 12:31	1
13C8 PFOSA	89.3		20 - 150	02/17/25 13:48	02/18/25 12:31	1
d3-NMeFOSAA	95.7		20 - 150	02/17/25 13:48	02/18/25 12:31	1
d5-NEtFOSAA	118		20 - 150	02/17/25 13:48	02/18/25 12:31	1
M2-4:2 FTS	126		20 - 150	02/17/25 13:48	02/18/25 12:31	1
M2-6:2 FTS	135		20 - 150	02/17/25 13:48	02/18/25 12:31	1
M2-8:2 FTS	132		20 - 150	02/17/25 13:48	02/18/25 12:31	1
13C3 HFPO-DA	109		20 - 150	02/17/25 13:48	02/18/25 12:31	1
d7-N-MeFOSE-M	82.6		20 - 150	02/17/25 13:48	02/18/25 12:31	1
d9-N-EtFOSE-M	79.9		20 - 150	02/17/25 13:48	02/18/25 12:31	1
d5-NEtPFOSA	67.6		20 - 150	02/17/25 13:48	02/18/25 12:31	1
D3-NMeFOSA	75.8		20 - 150	02/17/25 13:48	02/18/25 12:31	1
13C2-PFDoDA	97.4		20 - 150	02/17/25 13:48	02/18/25 12:31	1

Lab Sample ID: LCS 240-645106/3-A
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	6.25	6.61		ug/Kg		106	40 - 150
Perfluoropentanoic acid (PFPeA)	3.13	3.24		ug/Kg		104	40 - 150
Perfluorohexanoic acid (PFHxA)	1.56	1.65		ug/Kg		106	40 - 150
Perfluoroheptanoic acid (PFHpA)	1.56	1.63		ug/Kg		104	40 - 150
Perfluorooctanoic acid (PFOA)	1.56	1.70		ug/Kg		109	40 - 150
Perfluorononanoic acid (PFNA)	1.56	1.51		ug/Kg		96	40 - 150
Perfluorodecanoic acid (PFDA)	1.56	1.81		ug/Kg		116	40 - 150
Perfluoroundecanoic acid (PFUnA)	1.56	1.62		ug/Kg		104	40 - 150
Perfluorododecanoic acid (PFDoA)	1.56	1.65		ug/Kg		106	40 - 150
Perfluorotridecanoic acid (PFTrDA)	1.56	1.75		ug/Kg		112	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	1.56	1.80		ug/Kg		116	40 - 150
Perfluorobutanesulfonic acid (PFBS)	1.39	1.56		ug/Kg		112	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.47	1.61		ug/Kg		110	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.60		ug/Kg		112	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.49	1.54		ug/Kg		103	40 - 150
Perfluorooctanesulfonic acid (PFOS)	1.45	1.52		ug/Kg		105	40 - 150
Perfluorononanesulfonic acid (PFNS)	1.50	1.71		ug/Kg		114	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	1.52	1.55		ug/Kg		102	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-645106/3-A
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	5.86	6.05		ug/Kg		103	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.95	5.74		ug/Kg		96	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.00	6.09		ug/Kg		101	40 - 150
Perfluorooctanesulfonamide (PFOSA)	1.56	1.67		ug/Kg		107	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.56	1.83		ug/Kg		117	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.56	1.77		ug/Kg		114	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.56	1.71		ug/Kg		109	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.56	1.89		ug/Kg		121	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	15.6	17.7		ug/Kg		113	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	15.6	17.5		ug/Kg		112	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.25	6.47		ug/Kg		104	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.91	6.21		ug/Kg		105	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.13	3.51		ug/Kg		112	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.13	3.90		ug/Kg		125	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.84	6.58		ug/Kg		113	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	5.90	6.33		ug/Kg		107	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.79	3.16		ug/Kg		113	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.81	7.63		ug/Kg		98	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	39.1	36.3		ug/Kg		93	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	39.1	36.8		ug/Kg		94	40 - 150
Perfluorodecanesulfonic acid (PFDS)	1.51	1.55		ug/Kg		103	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.13	3.51		ug/Kg		112	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*104*		*20 - 150*
13C5 PFPeA	*93.9*		*20 - 150*
13C5 PFHxA	*102*		*20 - 150*
13C4 PFHpA	*107*		*20 - 150*
13C8 PFOA	*95.7*		*20 - 150*
13C9 PFNA	*109*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-645106/3-A
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645106

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C6 PFDA	103		20 - 150
13C7 PFUnA	105		20 - 150
13C2 PFTeDA	93.6		20 - 150
13C3 PFBS	96.6		20 - 150
13C3 PFHxS	96.5		20 - 150
13C8 PFOS	98.2		20 - 150
13C8 PFOSA	90.9		20 - 150
d3-NMeFOSAA	96.2		20 - 150
d5-NEtFOSAA	94.1		20 - 150
M2-4:2 FTS	118		20 - 150
M2-6:2 FTS	134		20 - 150
M2-8:2 FTS	135		20 - 150
13C3 HFPO-DA	108		20 - 150
d7-N-MeFOSE-M	82.9		20 - 150
d9-N-EtFOSE-M	82.1		20 - 150
d5-NEtPFOSA	70.7		20 - 150
D3-NMeFOSA	75.9		20 - 150
13C2-PFDoDA	97.5		20 - 150

Lab Sample ID: LLCS 240-645106/2-A
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645106

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.578		ug/Kg		116	40 - 150
Perfluoropentanoic acid (PFPeA)	0.250	0.280		ug/Kg		112	40 - 150
Perfluorohexanoic acid (PFHxA)	0.125	0.143		ug/Kg		114	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.125	0.141		ug/Kg		113	40 - 150
Perfluorooctanoic acid (PFOA)	0.125	0.163		ug/Kg		130	40 - 150
Perfluorononanoic acid (PFNA)	0.125	0.139		ug/Kg		111	40 - 150
Perfluorodecanoic acid (PFDA)	0.125	0.159		ug/Kg		127	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.125	0.142		ug/Kg		113	40 - 150
Perfluorododecanoic acid (PFDoA)	0.125	0.140		ug/Kg		112	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.125	0.170		ug/Kg		136	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.125	0.159		ug/Kg		127	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.111	0.134		ug/Kg		121	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.118	0.149		ug/Kg		127	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.114	0.149		ug/Kg		130	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.119	0.133		ug/Kg		111	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.116	0.160		ug/Kg		138	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.120	0.153		ug/Kg		127	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-645106/2-A
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645106

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanesulfonic acid (PFDoS)	0.121	0.135		ug/Kg		111	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.551		ug/Kg		117	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.540		ug/Kg		113	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.512		ug/Kg		107	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.125	0.149		ug/Kg		119	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.125	0.145		ug/Kg		116	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.125	0.151		ug/Kg		121	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.125	0.132		ug/Kg		106	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.125	0.151		ug/Kg		121	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.53		ug/Kg		123	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.49		ug/Kg		119	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.500	0.584		ug/Kg		117	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.473	0.565		ug/Kg		119	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.290		ug/Kg		116	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.309		ug/Kg		123	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.467	0.587		ug/Kg		126	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.472	0.555		ug/Kg		118	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.223	0.275		ug/Kg		123	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.625	0.610	J	ug/Kg		98	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	3.13	3.01	J	ug/Kg		96	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	3.13	3.11		ug/Kg		99	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.121	0.137		ug/Kg		114	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.291		ug/Kg		117	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*104*		*20 - 150*
13C5 PFPeA	*99.6*		*20 - 150*
13C5 PFHxA	*104*		*20 - 150*
13C4 PFHpA	*105*		*20 - 150*
13C8 PFOA	*94.4*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-645106/2-A
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645106

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C9 PFNA	108		20 - 150
13C6 PFDA	101		20 - 150
13C7 PFUnA	103		20 - 150
13C2 PFTeDA	92.0		20 - 150
13C3 PFBS	98.7		20 - 150
13C3 PFHxS	93.8		20 - 150
13C8 PFOS	94.1		20 - 150
13C8 PFOSA	90.4		20 - 150
d3-NMeFOSAA	98.0		20 - 150
d5-NEtFOSAA	117		20 - 150
M2-4:2 FTS	118		20 - 150
M2-6:2 FTS	130		20 - 150
M2-8:2 FTS	141		20 - 150
13C3 HFPO-DA	103		20 - 150
d7-N-MeFOSE-M	67.3		20 - 150
d9-N-EtFOSE-M	63.7		20 - 150
d5-NEtPFOSA	70.0		20 - 150
D3-NMeFOSA	79.3		20 - 150
13C2-PFDoDA	95.9		20 - 150

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 645106

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	ND		9.13	9.73		ug/Kg	☼	107	40 - 150
Perfluoropentanoic acid (PFPeA)	ND		4.57	4.79		ug/Kg	☼	105	40 - 150
Perfluorohexanoic acid (PFHxA)	ND		2.28	2.45		ug/Kg	☼	107	40 - 150
Perfluoroheptanoic acid (PFHpA)	ND		2.28	2.39		ug/Kg	☼	105	40 - 150
Perfluorooctanoic acid (PFOA)	0.10	J	2.28	2.71		ug/Kg	☼	114	40 - 150
Perfluorononanoic acid (PFNA)	ND		2.28	2.35		ug/Kg	☼	103	40 - 150
Perfluorodecanoic acid (PFDA)	ND		2.28	2.67		ug/Kg	☼	117	40 - 150
Perfluoroundecanoic acid (PFUnA)	ND		2.28	2.36		ug/Kg	☼	104	40 - 150
Perfluorododecanoic acid (PFDoA)	ND		2.28	2.41		ug/Kg	☼	105	40 - 150
Perfluorotridecanoic acid (PFTrDA)	ND		2.28	2.82		ug/Kg	☼	124	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	ND		2.28	2.75		ug/Kg	☼	121	40 - 150
Perfluorobutanesulfonic acid (PFBS)	ND		2.03	2.23		ug/Kg	☼	110	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	ND		2.15	2.35		ug/Kg	☼	110	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	ND		2.08	2.41		ug/Kg	☼	116	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.18	2.30		ug/Kg	☼	105	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.20		2.12	2.66		ug/Kg	☼	116	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 645106

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanesulfonic acid (PFNS)	ND		2.20	2.52		ug/Kg	☼	115	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	ND		2.21	2.22		ug/Kg	☼	100	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		8.57	9.09		ug/Kg	☼	106	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		8.69	8.42		ug/Kg	☼	97	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		8.77	9.19		ug/Kg	☼	105	40 - 150
Perfluorooctanesulfonamide (PFOSA)	ND		2.28	2.42		ug/Kg	☼	106	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.28	2.44		ug/Kg	☼	107	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.28	2.56		ug/Kg	☼	112	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.28	2.54		ug/Kg	☼	111	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.28	2.87		ug/Kg	☼	126	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		22.8	26.6		ug/Kg	☼	116	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		22.8	26.1		ug/Kg	☼	114	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		9.13	9.88		ug/Kg	☼	108	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.64	9.64		ug/Kg	☼	112	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		4.57	4.96		ug/Kg	☼	109	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		4.57	5.64		ug/Kg	☼	124	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		8.53	10.5		ug/Kg	☼	123	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		8.62	9.10		ug/Kg	☼	106	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		4.07	4.12		ug/Kg	☼	101	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		11.4	11.7		ug/Kg	☼	103	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		57.1	50.5		ug/Kg	☼	88	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		57.1	50.5		ug/Kg	☼	89	40 - 150
Perfluorodecanesulfonic acid (PFDS)	ND		2.20	2.19		ug/Kg	☼	99	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		4.57	5.06		ug/Kg	☼	111	40 - 150

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*98.3*		*20 - 150*
13C5 PFPeA	*83.7*		*20 - 150*
13C5 PFHxA	*94.2*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 645106

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFHpA	91.6		20 - 150
13C8 PFOA	89.1		20 - 150
13C9 PFNA	104		20 - 150
13C6 PFDA	98.2		20 - 150
13C7 PFUnA	100		20 - 150
13C2 PFTeDA	89.6		20 - 150
13C3 PFBS	87.0		20 - 150
13C3 PFHxS	85.3		20 - 150
13C8 PFOS	88.1		20 - 150
13C8 PFOSA	88.3		20 - 150
d3-NMeFOSAA	97.4		20 - 150
d5-NEtFOSAA	102		20 - 150
M2-4:2 FTS	186	*5+	20 - 150
M2-6:2 FTS	129		20 - 150
M2-8:2 FTS	140		20 - 150
13C3 HFPO-DA	87.2		20 - 150
d7-N-MeFOSE-M	73.7		20 - 150
d9-N-EtFOSE-M	63.5		20 - 150
d5-NEtPFOSA	76.1		20 - 150
D3-NMeFOSA	87.5		20 - 150
13C2-PFDoDA	94.6		20 - 150

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 645106

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	ND		9.18	9.43		ug/Kg	☼	103	40 - 150	3	30
Perfluoropentanoic acid (PFPeA)	ND		4.59	4.82		ug/Kg	☼	105	40 - 150	1	30
Perfluorohexanoic acid (PFHxA)	ND		2.29	2.41		ug/Kg	☼	105	40 - 150	1	30
Perfluoroheptanoic acid (PFHpA)	ND		2.29	2.51		ug/Kg	☼	109	40 - 150	5	30
Perfluorooctanoic acid (PFOA)	0.10	J	2.29	2.68		ug/Kg	☼	113	40 - 150	1	30
Perfluorononanoic acid (PFNA)	ND		2.29	2.26		ug/Kg	☼	98	40 - 150	4	30
Perfluorodecanoic acid (PFDA)	ND		2.29	2.72		ug/Kg	☼	119	40 - 150	2	30
Perfluoroundecanoic acid (PFUnA)	ND		2.29	2.43		ug/Kg	☼	106	40 - 150	3	30
Perfluorododecanoic acid (PFDoA)	ND		2.29	2.36		ug/Kg	☼	103	40 - 150	2	30
Perfluorotridecanoic acid (PFTrDA)	ND		2.29	2.69		ug/Kg	☼	117	40 - 150	5	30
Perfluorotetradecanoic acid (PFTeDA)	ND		2.29	2.60		ug/Kg	☼	114	40 - 150	6	30
Perfluorobutanesulfonic acid (PFBS)	ND		2.04	2.25		ug/Kg	☼	110	40 - 150	1	30
Perfluoropentanesulfonic acid (PFPeS)	ND		2.16	2.35		ug/Kg	☼	109	40 - 150	0	30
Perfluorohexanesulfonic acid (PFHxS)	ND		2.09	2.40		ug/Kg	☼	115	40 - 150	0	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.19	2.31		ug/Kg	☼	106	40 - 150	1	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 645106

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	0.20		2.13	2.56		ug/Kg	☼	111	40 - 150	4	30
Perfluorononanesulfonic acid (PFNS)	ND		2.21	2.55		ug/Kg	☼	116	40 - 150	1	30
Perfluorododecanesulfonic acid (PFDoS)	ND		2.23	2.27		ug/Kg	☼	102	40 - 150	2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		8.61	9.49		ug/Kg	☼	110	40 - 150	4	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		8.74	8.29		ug/Kg	☼	95	40 - 150	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		8.81	8.89		ug/Kg	☼	101	40 - 150	3	30
Perfluorooctanesulfonamide (PFOSA)	ND		2.29	2.38		ug/Kg	☼	104	40 - 150	2	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.29	2.56		ug/Kg	☼	112	40 - 150	5	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.29	2.59		ug/Kg	☼	113	40 - 150	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.29	2.49		ug/Kg	☼	108	40 - 150	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.29	2.87		ug/Kg	☼	125	40 - 150	0	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		22.9	26.3		ug/Kg	☼	115	40 - 150	1	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		22.9	25.5		ug/Kg	☼	111	40 - 150	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		9.18	9.98		ug/Kg	☼	109	40 - 150	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.68	9.47		ug/Kg	☼	109	40 - 150	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		4.59	4.89		ug/Kg	☼	107	40 - 150	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		4.59	5.65		ug/Kg	☼	123	40 - 150	0	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		8.57	10.6		ug/Kg	☼	124	40 - 150	1	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		8.66	9.23		ug/Kg	☼	107	40 - 150	1	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		4.09	4.26		ug/Kg	☼	104	40 - 150	3	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		11.5	11.7		ug/Kg	☼	102	40 - 150	0	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		57.4	52.9		ug/Kg	☼	92	40 - 150	5	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		57.4	55.0		ug/Kg	☼	96	40 - 150	8	30
Perfluorodecanesulfonic acid (PFDS)	ND		2.21	2.24		ug/Kg	☼	101	40 - 150	2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		4.59	5.22		ug/Kg	☼	114	40 - 150	3	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*106*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 645106

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C5 PFPeA	90.3		20 - 150
13C5 PFHxA	96.8		20 - 150
13C4 PFHpA	97.1		20 - 150
13C8 PFOA	91.7		20 - 150
13C9 PFNA	107		20 - 150
13C6 PFDA	101		20 - 150
13C7 PFUnA	106		20 - 150
13C2 PFTeDA	93.7		20 - 150
13C3 PFBS	90.4		20 - 150
13C3 PFHxS	91.4		20 - 150
13C8 PFOS	90.8		20 - 150
13C8 PFOSA	93.9		20 - 150
d3-NMeFOSAA	106		20 - 150
d5-NEtFOSAA	103		20 - 150
M2-4:2 FTS	227	*5+	20 - 150
M2-6:2 FTS	146		20 - 150
M2-8:2 FTS	156	*5+	20 - 150
13C3 HFPO-DA	95.0		20 - 150
d7-N-MeFOSE-M	88.6		20 - 150
d9-N-EtFOSE-M	86.6		20 - 150
d5-NEtPFOSA	79.5		20 - 150
D3-NMeFOSA	88.8		20 - 150
13C2-PFDoDA	102		20 - 150

Lab Sample ID: 480-227359-12 DU
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: RISB-6 17-18 ft
Prep Type: Total/NA
Prep Batch: 645106

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	ND			ND		ug/Kg	☼			NC	30
Perfluoropentanoic acid (PFPeA)	ND			ND		ug/Kg	☼			NC	30
Perfluorohexanoic acid (PFHxA)	ND			ND		ug/Kg	☼			NC	30
Perfluoroheptanoic acid (PFHpA)	ND			ND		ug/Kg	☼			NC	30
Perfluorooctanoic acid (PFOA)	ND			ND		ug/Kg	☼			NC	30
Perfluorononanoic acid (PFNA)	ND			ND		ug/Kg	☼			NC	30
Perfluorodecanoic acid (PFDA)	ND			ND		ug/Kg	☼			NC	30
Perfluoroundecanoic acid (PFUnA)	ND			ND		ug/Kg	☼			NC	30
Perfluorododecanoic acid (PFDoA)	ND			ND		ug/Kg	☼			NC	30
Perfluorotridecanoic acid (PFTrDA)	ND			ND		ug/Kg	☼			NC	30
Perfluorotetradecanoic acid (PFTeDA)	ND			ND		ug/Kg	☼			NC	30
Perfluorobutanesulfonic acid (PFBS)	ND			ND		ug/Kg	☼			NC	30
Perfluoropentanesulfonic acid (PFPeS)	ND			ND		ug/Kg	☼			NC	30
Perfluorohexanesulfonic acid (PFHxS)	ND			ND		ug/Kg	☼			NC	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227359-12 DU
Matrix: Solid
Analysis Batch: 645242

Client Sample ID: RISB-6 17-18 ft
Prep Type: Total/NA
Prep Batch: 645106

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluoroheptanesulfonic acid (PFHpS)	ND			ND		ug/Kg	☼			NC	30
Perfluorooctanesulfonic acid (PFOS)	ND			ND		ug/Kg	☼			NC	30
Perfluorononanesulfonic acid (PFNS)	ND			ND		ug/Kg	☼			NC	30
Perfluorododecanesulfonic acid (PFDoS)	ND			ND		ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND			ND		ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND			ND		ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND			ND		ug/Kg	☼			NC	30
Perfluorooctanesulfonamide (PFOSA)	ND			ND		ug/Kg	☼			NC	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND			ND		ug/Kg	☼			NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND			ND		ug/Kg	☼			NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND			ND		ug/Kg	☼			NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND			ND		ug/Kg	☼			NC	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND			ND		ug/Kg	☼			NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND			ND		ug/Kg	☼			NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND			ND		ug/Kg	☼			NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND			ND		ug/Kg	☼			NC	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND			ND		ug/Kg	☼			NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND			ND		ug/Kg	☼			NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND			ND		ug/Kg	☼			NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND			ND		ug/Kg	☼			NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND			ND		ug/Kg	☼			NC	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND			ND		ug/Kg	☼			NC	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND			ND		ug/Kg	☼			NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND			ND		ug/Kg	☼			NC	30
Perfluorodecanesulfonic acid (PFDS)	ND			ND		ug/Kg	☼			NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND			ND		ug/Kg	☼			NC	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	DU %Recovery	DU Qualifier	Limits
13C4 PFBA	103		20 - 150
13C5 PFPeA	93.3		20 - 150
13C5 PFHxA	100		20 - 150
13C4 PFHpA	104		20 - 150
13C8 PFOA	96.6		20 - 150
13C9 PFNA	106		20 - 150
13C6 PFDA	102		20 - 150
13C7 PFUnA	104		20 - 150
13C2 PFTeDA	89.2		20 - 150
13C3 PFBS	92.7		20 - 150
13C3 PFHxS	92.5		20 - 150
13C8 PFOS	88.9		20 - 150
13C8 PFOSA	87.5		20 - 150
d3-NMeFOSAA	94.4		20 - 150
d5-NEtFOSAA	117		20 - 150
M2-4:2 FTS	123		20 - 150
M2-6:2 FTS	129		20 - 150
M2-8:2 FTS	133		20 - 150
13C3 HFPO-DA	106		20 - 150
d7-N-MeFOSE-M	76.2		20 - 150
d9-N-EtFOSE-M	73.0		20 - 150
d5-NEtPFOSA	71.3		20 - 150
D3-NMeFOSA	78.9		20 - 150
13C2-PFDoDA	97.1		20 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-739036/1-A
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.5	8.2	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Antimony	ND		14.3	0.51	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Arsenic	ND		1.9	0.84	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Barium	ND		0.48	0.13	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Beryllium	ND		0.19	0.038	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Cadmium	ND		0.19	0.067	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Calcium	ND		47.6	25.7	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Chromium	ND		0.48	0.34	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Cobalt	ND		0.48	0.095	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Copper	ND		0.95	0.54	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Iron	ND		9.5	8.1	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Lead	ND		0.95	0.44	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Magnesium	ND		19.1	8.1	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Manganese	ND		0.95	0.27	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Nickel	ND		4.8	0.24	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Potassium	ND		28.6	23.1	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Selenium	ND		3.8	0.76	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Silver	ND		0.57	0.19	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Sodium	ND		133	58.4	mg/Kg		02/15/25 15:47	02/17/25 17:22	1
Thallium	ND		5.7	0.72	mg/Kg		02/15/25 15:47	02/17/25 17:22	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-739036/1-A
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.48	0.12	mg/Kg		02/15/25 15:47	02/17/25 17:22	1

Lab Sample ID: MB 480-739036/1-A
Matrix: Solid
Analysis Batch: 739224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		1.9	0.97	mg/Kg		02/15/25 15:47	02/18/25 14:06	1

Lab Sample ID: LCSSRM 480-739036/2-A
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739036

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	8595		mg/Kg		111.9	47.4 - 130.2
Antimony	201	74.95		mg/Kg		37.3	0.06 - 100.0
Arsenic	181	131.4		mg/Kg		72.6	66.3 - 97.8
Barium	211	191.9		mg/Kg		91.0	73.9 - 107.1
Beryllium	270	222.6		mg/Kg		82.4	73.0 - 104.4
Cadmium	221	160.2		mg/Kg		72.5	70.6 - 101.8
Calcium	4280	3978		mg/Kg		92.9	77.3 - 111.0
Chromium	149	124.3		mg/Kg		83.4	71.8 - 105.4
Cobalt	142	131.4		mg/Kg		92.5	73.2 - 104.2
Copper	264	206.6		mg/Kg		78.2	73.5 - 104.2
Iron	7360	7214		mg/Kg		98.0	55.4 - 130.3
Lead	106	104.2		mg/Kg		98.3	76.1 - 109.4
Magnesium	2170	2007		mg/Kg		92.5	68.7 - 112.0
Manganese	270	240.3		mg/Kg		89.0	73.0 - 107.8
Nickel	117	164.0		mg/Kg		140.2	108.5 - 156.4
Potassium	2340	2266		mg/Kg		96.8	62.8 - 113.7
Selenium	139	103.9		mg/Kg		74.7	70.0 - 107.9
Silver	59.9	50.26		mg/Kg		83.9	72.8 - 110.7
Sodium	306	275.5		mg/Kg		90.0	66.0 - 113.4
Thallium	205	168.4		mg/Kg		82.1	71.7 - 106.8

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-739036/2-A
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739036

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	155	135.9		mg/Kg		87.7	107 - 69.07
Zinc	398	322.9		mg/Kg		81.1	68.8 - 104.5

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	17500	F2	1550	29760	4	mg/Kg	☼	794	75 - 125
Antimony	ND	F1	152	105.7	F1	mg/Kg	☼	70	75 - 125
Arsenic	4.3		305	272.5		mg/Kg	☼	88	75 - 125
Barium	103		303	456.6		mg/Kg	☼	116	75 - 125
Beryllium	0.78		150	142.8		mg/Kg	☼	94	75 - 125
Cadmium	0.70		152	135.9		mg/Kg	☼	89	75 - 125
Calcium	72700	F2	7580	28280	4	mg/Kg	☼	-586	75 - 125
Chromium	19.0	B	151	168.2		mg/Kg	☼	98	75 - 125
Cobalt	8.0		152	167.4		mg/Kg	☼	105	75 - 125
Copper	18.5		152	168.7		mg/Kg	☼	99	75 - 125
Iron	18500	F2	1550	30440	4	mg/Kg	☼	769	75 - 125
Lead	55.2		152	219.3		mg/Kg	☼	108	75 - 125
Magnesium	11000	F1	7580	14920	F1	mg/Kg	☼	51	75 - 125
Manganese	788	F2	151	1631	4	mg/Kg	☼	558	75 - 125
Nickel	17.3		152	178.4		mg/Kg	☼	106	75 - 125
Potassium	3460	F1	7580	14300	F1	mg/Kg	☼	143	75 - 125
Selenium	ND		303	249.9		mg/Kg	☼	82	75 - 125
Silver	ND		15.2	14.59		mg/Kg	☼	96	75 - 125
Sodium	263		7580	7514		mg/Kg	☼	96	75 - 125
Thallium	ND		303	307.3		mg/Kg	☼	101	75 - 125
Vanadium	32.1		152	195.2		mg/Kg	☼	107	75 - 125
Zinc	111		152	264.0		mg/Kg	☼	101	75 - 125

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	17500	F2	1570	23800	4 F2	mg/Kg	☼	404	75 - 125	22	20
Antimony	ND	F1	154	118.8		mg/Kg	☼	77	75 - 125	12	20
Arsenic	4.3		309	277.2		mg/Kg	☼	88	75 - 125	2	20
Barium	103		307	402.5		mg/Kg	☼	97	75 - 125	13	20
Beryllium	0.78		152	145.5		mg/Kg	☼	95	75 - 125	2	20
Cadmium	0.70		154	139.4		mg/Kg	☼	90	75 - 125	2	20
Calcium	72700	F2	7680	41410	4 F2	mg/Kg	☼	-408	75 - 125	38	20
Chromium	19.0	B	154	162.8		mg/Kg	☼	94	75 - 125	3	20
Cobalt	8.0		154	161.0		mg/Kg	☼	100	75 - 125	4	20
Copper	18.5		154	166.1		mg/Kg	☼	96	75 - 125	2	20
Iron	18500	F2	1570	18390	4 F2	mg/Kg	☼	-7	75 - 125	49	20
Lead	55.2		154	196.3		mg/Kg	☼	92	75 - 125	11	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 739173

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	11000	F1	7690	13880	F1	mg/Kg	☼	37	75 - 125	7	20
Manganese	788	F2	153	672.6	4 F2	mg/Kg	☼	-76	75 - 125	83	20
Nickel	17.3		154	173.4		mg/Kg	☼	101	75 - 125	3	20
Potassium	3460	F1	7680	13090		mg/Kg	☼	125	75 - 125	9	20
Selenium	ND		307	258.5		mg/Kg	☼	84	75 - 125	3	20
Silver	ND		15.4	14.58		mg/Kg	☼	95	75 - 125	0	20
Sodium	263		7680	7677		mg/Kg	☼	97	75 - 125	2	20
Thallium	ND		307	307.4		mg/Kg	☼	100	75 - 125	0	20
Vanadium	32.1		154	183.4		mg/Kg	☼	98	75 - 125	6	20
Zinc	111		154	232.5		mg/Kg	☼	79	75 - 125	13	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-739238/1-A
Matrix: Solid
Analysis Batch: 739294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0045	mg/Kg		02/19/25 09:48	02/19/25 12:28	1

Lab Sample ID: LCSSRM 480-739238/2-A ^10
Matrix: Solid
Analysis Batch: 739294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739238

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	19.88		mg/Kg		82.8	55.8 - 109.6

Lab Sample ID: 480-227359-5 MS
Matrix: Solid
Analysis Batch: 739294

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.071		0.477	0.518		mg/Kg	☼	94	80 - 120

Lab Sample ID: 480-227359-5 MSD
Matrix: Solid
Analysis Batch: 739294

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 739238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.071		0.510	0.552		mg/Kg	☼	94	80 - 120	6	20

GC/MS VOA

Prep Batch: 739024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	5035A_L	
MB 480-739024/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-739024/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-739024/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 739146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	8260C	739024
MB 480-739024/3-A	Method Blank	Total/NA	Solid	8260C	739024
LCS 480-739024/1-A	Lab Control Sample	Total/NA	Solid	8260C	739024
LCSD 480-739024/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	739024

GC/MS Semi VOA

Prep Batch: 739521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-1	MW-3 0-2 ft	Total/NA	Solid	3550C	
480-227359-2	SS-1	Total/NA	Solid	3550C	
480-227359-3	SS-2	Total/NA	Solid	3550C	
480-227359-4	SS-BD	Total/NA	Solid	3550C	
480-227359-5	SS-4	Total/NA	Solid	3550C	
480-227359-6	RISB-5 0-1 ft	Total/NA	Solid	3550C	
480-227359-7	SS-3	Total/NA	Solid	3550C	
480-227359-8	SS-9	Total/NA	Solid	3550C	
480-227359-9	SS-10	Total/NA	Solid	3550C	
480-227359-10	SS-8	Total/NA	Solid	3550C	
480-227359-11	RISB-6 0.5-3 ft	Total/NA	Solid	3550C	
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	3550C	
MB 480-739521/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739521/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227359-5 MS	SS-4	Total/NA	Solid	3550C	
480-227359-5 MSD	SS-4	Total/NA	Solid	3550C	

Analysis Batch: 739577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-1	MW-3 0-2 ft	Total/NA	Solid	8270D	739521
480-227359-2	SS-1	Total/NA	Solid	8270D	739521
480-227359-3	SS-2	Total/NA	Solid	8270D	739521
480-227359-4	SS-BD	Total/NA	Solid	8270D	739521
480-227359-5	SS-4	Total/NA	Solid	8270D	739521
480-227359-6	RISB-5 0-1 ft	Total/NA	Solid	8270D	739521
480-227359-7	SS-3	Total/NA	Solid	8270D	739521
480-227359-8	SS-9	Total/NA	Solid	8270D	739521
480-227359-9	SS-10	Total/NA	Solid	8270D	739521
480-227359-10	SS-8	Total/NA	Solid	8270D	739521
480-227359-11	RISB-6 0.5-3 ft	Total/NA	Solid	8270D	739521
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	8270D	739521
MB 480-739521/1-A	Method Blank	Total/NA	Solid	8270D	739521
LCS 480-739521/2-A	Lab Control Sample	Total/NA	Solid	8270D	739521
480-227359-5 MS	SS-4	Total/NA	Solid	8270D	739521
480-227359-5 MSD	SS-4	Total/NA	Solid	8270D	739521

GC Semi VOA

Prep Batch: 739108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-2	SS-1	Total/NA	Solid	3550C	
480-227359-3	SS-2	Total/NA	Solid	3550C	
480-227359-4	SS-BD	Total/NA	Solid	3550C	
480-227359-5	SS-4	Total/NA	Solid	3550C	
480-227359-7	SS-3	Total/NA	Solid	3550C	
480-227359-8	SS-9	Total/NA	Solid	3550C	
480-227359-10	SS-8	Total/NA	Solid	3550C	
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	3550C	
MB 480-739108/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739108/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227359-5 MS	SS-4	Total/NA	Solid	3550C	
480-227359-5 MSD	SS-4	Total/NA	Solid	3550C	

Analysis Batch: 739195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-2	SS-1	Total/NA	Solid	8082A	739108
480-227359-3	SS-2	Total/NA	Solid	8082A	739108
480-227359-4	SS-BD	Total/NA	Solid	8082A	739108
480-227359-5	SS-4	Total/NA	Solid	8082A	739108
480-227359-7	SS-3	Total/NA	Solid	8082A	739108
480-227359-8	SS-9	Total/NA	Solid	8082A	739108
480-227359-10	SS-8	Total/NA	Solid	8082A	739108
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	8082A	739108
MB 480-739108/1-A	Method Blank	Total/NA	Solid	8082A	739108
LCS 480-739108/2-A	Lab Control Sample	Total/NA	Solid	8082A	739108
480-227359-5 MS	SS-4	Total/NA	Solid	8082A	739108
480-227359-5 MSD	SS-4	Total/NA	Solid	8082A	739108

Prep Batch: 739397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-1	MW-3 0-2 ft	Total/NA	Solid	3550C	
480-227359-2	SS-1	Total/NA	Solid	3550C	
480-227359-3	SS-2	Total/NA	Solid	3550C	
480-227359-4	SS-BD	Total/NA	Solid	3550C	
480-227359-5	SS-4	Total/NA	Solid	3550C	
480-227359-6	RISB-5 0-1 ft	Total/NA	Solid	3550C	
480-227359-7	SS-3	Total/NA	Solid	3550C	
480-227359-8	SS-9	Total/NA	Solid	3550C	
480-227359-9	SS-10	Total/NA	Solid	3550C	
480-227359-10	SS-8	Total/NA	Solid	3550C	
480-227359-11	RISB-6 0.5-3 ft	Total/NA	Solid	3550C	
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	3550C	
MB 480-739397/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739397/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227359-5 MS	SS-4	Total/NA	Solid	3550C	
480-227359-5 MSD	SS-4	Total/NA	Solid	3550C	

Prep Batch: 739471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-2	SS-1	Total/NA	Solid	8151A	
480-227359-3	SS-2	Total/NA	Solid	8151A	

GC Semi VOA (Continued)

Prep Batch: 739471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-4	SS-BD	Total/NA	Solid	8151A	
480-227359-5	SS-4	Total/NA	Solid	8151A	
480-227359-7	SS-3	Total/NA	Solid	8151A	
480-227359-8	SS-9	Total/NA	Solid	8151A	
480-227359-10	SS-8	Total/NA	Solid	8151A	
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	8151A	
MB 480-739471/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-739471/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-227359-5 MS	SS-4	Total/NA	Solid	8151A	
480-227359-5 MSD	SS-4	Total/NA	Solid	8151A	

Analysis Batch: 739473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-1	MW-3 0-2 ft	Total/NA	Solid	8081B	739397
480-227359-2	SS-1	Total/NA	Solid	8081B	739397
480-227359-3	SS-2	Total/NA	Solid	8081B	739397
480-227359-4	SS-BD	Total/NA	Solid	8081B	739397
480-227359-5	SS-4	Total/NA	Solid	8081B	739397
480-227359-6	RISB-5 0-1 ft	Total/NA	Solid	8081B	739397
480-227359-7	SS-3	Total/NA	Solid	8081B	739397
480-227359-8	SS-9	Total/NA	Solid	8081B	739397
480-227359-9	SS-10	Total/NA	Solid	8081B	739397
480-227359-10	SS-8	Total/NA	Solid	8081B	739397
480-227359-11	RISB-6 0.5-3 ft	Total/NA	Solid	8081B	739397
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	8081B	739397
MB 480-739397/1-A	Method Blank	Total/NA	Solid	8081B	739397
LCS 480-739397/2-A	Lab Control Sample	Total/NA	Solid	8081B	739397
480-227359-5 MS	SS-4	Total/NA	Solid	8081B	739397
480-227359-5 MSD	SS-4	Total/NA	Solid	8081B	739397

Analysis Batch: 739632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-2	SS-1	Total/NA	Solid	8151A	739471
480-227359-3	SS-2	Total/NA	Solid	8151A	739471
480-227359-4	SS-BD	Total/NA	Solid	8151A	739471
480-227359-5	SS-4	Total/NA	Solid	8151A	739471
480-227359-7	SS-3	Total/NA	Solid	8151A	739471
480-227359-8	SS-9	Total/NA	Solid	8151A	739471
480-227359-10	SS-8	Total/NA	Solid	8151A	739471
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	8151A	739471
MB 480-739471/1-A	Method Blank	Total/NA	Solid	8151A	739471
LCS 480-739471/2-A	Lab Control Sample	Total/NA	Solid	8151A	739471
480-227359-5 MS	SS-4	Total/NA	Solid	8151A	739471
480-227359-5 MSD	SS-4	Total/NA	Solid	8151A	739471

LCMS

Prep Batch: 645106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-2	SS-1	Total/NA	Solid	1633 Shake	
480-227359-3	SS-2	Total/NA	Solid	1633 Shake	

LCMS (Continued)

Prep Batch: 645106 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-4	SS-BD	Total/NA	Solid	1633 Shake	
480-227359-5	SS-4	Total/NA	Solid	1633 Shake	
480-227359-7	SS-3	Total/NA	Solid	1633 Shake	
480-227359-8	SS-9	Total/NA	Solid	1633 Shake	
480-227359-10	SS-8	Total/NA	Solid	1633 Shake	
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	1633 Shake	
MB 240-645106/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-645106/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-645106/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
480-227359-5 MS	SS-4	Total/NA	Solid	1633 Shake	
480-227359-5 MSD	SS-4	Total/NA	Solid	1633 Shake	
480-227359-12 DU	RISB-6 17-18 ft	Total/NA	Solid	1633 Shake	

Analysis Batch: 645242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-2	SS-1	Total/NA	Solid	1633	645106
480-227359-3	SS-2	Total/NA	Solid	1633	645106
480-227359-4	SS-BD	Total/NA	Solid	1633	645106
480-227359-5	SS-4	Total/NA	Solid	1633	645106
480-227359-7	SS-3	Total/NA	Solid	1633	645106
480-227359-8	SS-9	Total/NA	Solid	1633	645106
480-227359-10	SS-8	Total/NA	Solid	1633	645106
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	1633	645106
MB 240-645106/1-A	Method Blank	Total/NA	Solid	1633	645106
LCS 240-645106/3-A	Lab Control Sample	Total/NA	Solid	1633	645106
LLCS 240-645106/2-A	Lab Control Sample	Total/NA	Solid	1633	645106
480-227359-5 MS	SS-4	Total/NA	Solid	1633	645106
480-227359-5 MSD	SS-4	Total/NA	Solid	1633	645106
480-227359-12 DU	RISB-6 17-18 ft	Total/NA	Solid	1633	645106

Metals

Prep Batch: 739036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-1	MW-3 0-2 ft	Total/NA	Solid	3050B	
480-227359-2	SS-1	Total/NA	Solid	3050B	
480-227359-3	SS-2	Total/NA	Solid	3050B	
480-227359-4	SS-BD	Total/NA	Solid	3050B	
480-227359-5	SS-4	Total/NA	Solid	3050B	
480-227359-6	RISB-5 0-1 ft	Total/NA	Solid	3050B	
480-227359-7	SS-3	Total/NA	Solid	3050B	
480-227359-8	SS-9	Total/NA	Solid	3050B	
480-227359-9	SS-10	Total/NA	Solid	3050B	
480-227359-10	SS-8	Total/NA	Solid	3050B	
480-227359-11	RISB-6 0.5-3 ft	Total/NA	Solid	3050B	
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	3050B	
MB 480-739036/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-739036/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-227359-5 MS	SS-4	Total/NA	Solid	3050B	
480-227359-5 MSD	SS-4	Total/NA	Solid	3050B	

Metals

Analysis Batch: 739173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-1	MW-3 0-2 ft	Total/NA	Solid	6010C	739036
480-227359-2	SS-1	Total/NA	Solid	6010C	739036
480-227359-3	SS-2	Total/NA	Solid	6010C	739036
480-227359-4	SS-BD	Total/NA	Solid	6010C	739036
480-227359-5	SS-4	Total/NA	Solid	6010C	739036
480-227359-6	RISB-5 0-1 ft	Total/NA	Solid	6010C	739036
480-227359-7	SS-3	Total/NA	Solid	6010C	739036
480-227359-8	SS-9	Total/NA	Solid	6010C	739036
480-227359-9	SS-10	Total/NA	Solid	6010C	739036
480-227359-10	SS-8	Total/NA	Solid	6010C	739036
480-227359-11	RISB-6 0.5-3 ft	Total/NA	Solid	6010C	739036
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	6010C	739036
MB 480-739036/1-A	Method Blank	Total/NA	Solid	6010C	739036
LCSSRM 480-739036/2-A	Lab Control Sample	Total/NA	Solid	6010C	739036
480-227359-5 MS	SS-4	Total/NA	Solid	6010C	739036
480-227359-5 MSD	SS-4	Total/NA	Solid	6010C	739036

Analysis Batch: 739224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-739036/1-A	Method Blank	Total/NA	Solid	6010C	739036

Prep Batch: 739238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-1	MW-3 0-2 ft	Total/NA	Solid	7471B	
480-227359-2	SS-1	Total/NA	Solid	7471B	
480-227359-3	SS-2	Total/NA	Solid	7471B	
480-227359-4	SS-BD	Total/NA	Solid	7471B	
480-227359-5	SS-4	Total/NA	Solid	7471B	
480-227359-6	RISB-5 0-1 ft	Total/NA	Solid	7471B	
480-227359-7	SS-3	Total/NA	Solid	7471B	
480-227359-8	SS-9	Total/NA	Solid	7471B	
480-227359-9	SS-10	Total/NA	Solid	7471B	
480-227359-10	SS-8	Total/NA	Solid	7471B	
480-227359-11	RISB-6 0.5-3 ft	Total/NA	Solid	7471B	
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	7471B	
MB 480-739238/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-739238/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-227359-5 MS	SS-4	Total/NA	Solid	7471B	
480-227359-5 MSD	SS-4	Total/NA	Solid	7471B	

Analysis Batch: 739294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-1	MW-3 0-2 ft	Total/NA	Solid	7471B	739238
480-227359-2	SS-1	Total/NA	Solid	7471B	739238
480-227359-3	SS-2	Total/NA	Solid	7471B	739238
480-227359-4	SS-BD	Total/NA	Solid	7471B	739238
480-227359-5	SS-4	Total/NA	Solid	7471B	739238
480-227359-6	RISB-5 0-1 ft	Total/NA	Solid	7471B	739238
480-227359-7	SS-3	Total/NA	Solid	7471B	739238
480-227359-8	SS-9	Total/NA	Solid	7471B	739238
480-227359-9	SS-10	Total/NA	Solid	7471B	739238

Metals (Continued)

Analysis Batch: 739294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-10	SS-8	Total/NA	Solid	7471B	739238
480-227359-11	RISB-6 0.5-3 ft	Total/NA	Solid	7471B	739238
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	7471B	739238
MB 480-739238/1-A	Method Blank	Total/NA	Solid	7471B	739238
LCSSRM 480-739238/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	739238
480-227359-5 MS	SS-4	Total/NA	Solid	7471B	739238
480-227359-5 MSD	SS-4	Total/NA	Solid	7471B	739238

General Chemistry

Analysis Batch: 739046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227359-1	MW-3 0-2 ft	Total/NA	Solid	Moisture	
480-227359-2	SS-1	Total/NA	Solid	Moisture	
480-227359-3	SS-2	Total/NA	Solid	Moisture	
480-227359-4	SS-BD	Total/NA	Solid	Moisture	
480-227359-5	SS-4	Total/NA	Solid	Moisture	
480-227359-6	RISB-5 0-1 ft	Total/NA	Solid	Moisture	
480-227359-7	SS-3	Total/NA	Solid	Moisture	
480-227359-8	SS-9	Total/NA	Solid	Moisture	
480-227359-9	SS-10	Total/NA	Solid	Moisture	
480-227359-10	SS-8	Total/NA	Solid	Moisture	
480-227359-11	RISB-6 0.5-3 ft	Total/NA	Solid	Moisture	
480-227359-12	RISB-6 17-18 ft	Total/NA	Solid	Moisture	
480-227359-5 MS	SS-4	Total/NA	Solid	Moisture	
480-227359-5 MSD	SS-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Client Sample ID: MW-3 0-2 ft
Lab Sample ID: 480-227359-1
Date Collected: 02/13/25 10:00
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Client Sample ID: MW-3 0-2 ft
Lab Sample ID: 480-227359-1
Date Collected: 02/13/25 10:00
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		5	739577	JMM	EET BUF	02/25/25 19:46
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		10	739473	JLS	EET BUF	02/24/25 11:43
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:25
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:30

Client Sample ID: SS-1
Lab Sample ID: 480-227359-2
Date Collected: 02/13/25 11:00
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Client Sample ID: SS-1
Lab Sample ID: 480-227359-2
Date Collected: 02/13/25 11:00
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 72.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		1	739577	JMM	EET BUF	02/25/25 20:12
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		1	739473	JLS	EET BUF	02/24/25 12:03
Total/NA	Prep	3550C			739108	DP	EET BUF	02/17/25 07:16
Total/NA	Analysis	8082A		1	739195	H9RU	EET BUF	02/18/25 13:31
Total/NA	Prep	8151A			739471	DP	EET BUF	02/24/25 06:56
Total/NA	Analysis	8151A		1	739632	MAN	EET BUF	02/26/25 13:29
Total/NA	Prep	1633 Shake			645106	KML	EET CLE	02/17/25 13:48
Total/NA	Analysis	1633		1	645242	DSH	EET CLE	02/18/25 13:38
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:27
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:32

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Client Sample ID: SS-2
Lab Sample ID: 480-227359-3
Date Collected: 02/13/25 11:15
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Client Sample ID: SS-2
Lab Sample ID: 480-227359-3
Date Collected: 02/13/25 11:15
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		1	739577	JMM	EET BUF	02/25/25 20:39
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		1	739473	JLS	EET BUF	02/24/25 12:22
Total/NA	Prep	3550C			739108	DP	EET BUF	02/17/25 07:16
Total/NA	Analysis	8082A		1	739195	H9RU	EET BUF	02/18/25 13:49
Total/NA	Prep	8151A			739471	DP	EET BUF	02/24/25 06:56
Total/NA	Analysis	8151A		1	739632	MAN	EET BUF	02/26/25 13:47
Total/NA	Prep	1633 Shake			645106	KML	EET CLE	02/17/25 13:48
Total/NA	Analysis	1633		1	645242	DSH	EET CLE	02/18/25 14:28
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:29
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:33

Client Sample ID: SS-BD
Lab Sample ID: 480-227359-4
Date Collected: 02/13/25 11:20
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Client Sample ID: SS-BD
Lab Sample ID: 480-227359-4
Date Collected: 02/13/25 11:20
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		1	739577	JMM	EET BUF	02/25/25 21:05
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		5	739473	JLS	EET BUF	02/24/25 12:42
Total/NA	Prep	3550C			739108	DP	EET BUF	02/17/25 07:16
Total/NA	Analysis	8082A		1	739195	H9RU	EET BUF	02/18/25 14:07
Total/NA	Prep	8151A			739471	DP	EET BUF	02/24/25 06:56
Total/NA	Analysis	8151A		1	739632	MAN	EET BUF	02/26/25 14:05
Total/NA	Prep	1633 Shake			645106	KML	EET CLE	02/17/25 13:48
Total/NA	Analysis	1633		1	645242	DSH	EET CLE	02/18/25 14:44

Client Sample ID: SS-BD
Lab Sample ID: 480-227359-4
Date Collected: 02/13/25 11:20
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:31
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:38

Client Sample ID: SS-4
Lab Sample ID: 480-227359-5
Date Collected: 02/13/25 13:00
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Client Sample ID: SS-4
Lab Sample ID: 480-227359-5
Date Collected: 02/13/25 13:00
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 67.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		1	739577	JMM	EET BUF	02/25/25 18:52
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		10	739473	JLS	EET BUF	02/24/25 11:24
Total/NA	Prep	3550C			739108	DP	EET BUF	02/17/25 07:16
Total/NA	Analysis	8082A		1	739195	H9RU	EET BUF	02/18/25 13:12
Total/NA	Prep	8151A			739471	DP	EET BUF	02/24/25 06:56
Total/NA	Analysis	8151A		1	739632	MAN	EET BUF	02/26/25 13:10
Total/NA	Prep	1633 Shake			645106	KML	EET CLE	02/17/25 13:48
Total/NA	Analysis	1633		1	645242	DSH	EET CLE	02/18/25 15:01
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:33
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:40

Client Sample ID: RISB-5 0-1 ft
Lab Sample ID: 480-227359-6
Date Collected: 02/13/25 14:05
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Client Sample ID: RISB-5 0-1 ft
Lab Sample ID: 480-227359-6
Date Collected: 02/13/25 14:05
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		5	739577	JMM	EET BUF	02/25/25 21:32

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Client Sample ID: RISB-5 0-1 ft
Lab Sample ID: 480-227359-6
Date Collected: 02/13/25 14:05
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		20	739473	JLS	EET BUF	02/24/25 13:02
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:48
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:45

Client Sample ID: SS-3
Lab Sample ID: 480-227359-7
Date Collected: 02/13/25 15:05
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Client Sample ID: SS-3
Lab Sample ID: 480-227359-7
Date Collected: 02/13/25 15:05
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		1	739577	JMM	EET BUF	02/25/25 21:59
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		1	739473	JLS	EET BUF	02/24/25 13:21
Total/NA	Prep	3550C			739108	DP	EET BUF	02/17/25 07:16
Total/NA	Analysis	8082A		1	739195	H9RU	EET BUF	02/18/25 14:26
Total/NA	Prep	8151A			739471	DP	EET BUF	02/24/25 06:56
Total/NA	Analysis	8151A		1	739632	MAN	EET BUF	02/26/25 14:24
Total/NA	Prep	1633 Shake			645106	KML	EET CLE	02/17/25 13:48
Total/NA	Analysis	1633		1	645242	DSH	EET CLE	02/18/25 15:51
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:50
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:46

Client Sample ID: SS-9
Lab Sample ID: 480-227359-8
Date Collected: 02/13/25 15:15
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Client Sample ID: SS-9
Lab Sample ID: 480-227359-8
Date Collected: 02/13/25 15:15
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		1	739577	JMM	EET BUF	02/25/25 22:26
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		1	739473	JLS	EET BUF	02/24/25 13:41
Total/NA	Prep	3550C			739108	DP	EET BUF	02/17/25 07:16
Total/NA	Analysis	8082A		1	739195	H9RU	EET BUF	02/18/25 14:44
Total/NA	Prep	8151A			739471	DP	EET BUF	02/24/25 06:56
Total/NA	Analysis	8151A		1	739632	MAN	EET BUF	02/26/25 14:42
Total/NA	Prep	1633 Shake			645106	KML	EET CLE	02/17/25 13:48
Total/NA	Analysis	1633		1	645242	DSH	EET CLE	02/18/25 16:08
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:52
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:47

Client Sample ID: SS-10
Lab Sample ID: 480-227359-9
Date Collected: 02/13/25 15:30
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Client Sample ID: SS-10
Lab Sample ID: 480-227359-9
Date Collected: 02/13/25 15:30
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 3.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		1	739577	JMM	EET BUF	02/25/25 22:52
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		1	739473	JLS	EET BUF	02/24/25 14:01
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:54
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:49

Client Sample ID: SS-8
Lab Sample ID: 480-227359-10
Date Collected: 02/13/25 15:35
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Client Sample ID: SS-8
Lab Sample ID: 480-227359-10
Date Collected: 02/13/25 15:35
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		1	739577	JMM	EET BUF	02/25/25 23:18
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		5	739473	JLS	EET BUF	02/24/25 14:20
Total/NA	Prep	3550C			739108	DP	EET BUF	02/17/25 07:16
Total/NA	Analysis	8082A		1	739195	H9RU	EET BUF	02/18/25 15:03
Total/NA	Prep	8151A			739471	DP	EET BUF	02/24/25 06:56
Total/NA	Analysis	8151A		1	739632	MAN	EET BUF	02/26/25 15:19
Total/NA	Prep	1633 Shake			645106	KML	EET CLE	02/17/25 13:48
Total/NA	Analysis	1633		1	645242	DSH	EET CLE	02/18/25 16:24
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:56
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:50

Client Sample ID: RISB-6 0.5-3 ft
Lab Sample ID: 480-227359-11
Date Collected: 02/13/25 14:30
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Client Sample ID: RISB-6 0.5-3 ft
Lab Sample ID: 480-227359-11
Date Collected: 02/13/25 14:30
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		5	739577	JMM	EET BUF	02/25/25 23:44
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		20	739473	JLS	EET BUF	02/24/25 14:40
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 17:58
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:54

Client Sample ID: RISB-6 17-18 ft
Lab Sample ID: 480-227359-12
Date Collected: 02/13/25 15:00
Matrix: Solid
Date Received: 02/13/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739046	JMM	EET BUF	02/14/25 14:54

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Client Sample ID: RISB-6 17-18 ft
Lab Sample ID: 480-227359-12

Date Collected: 02/13/25 15:00
Matrix: Solid
Date Received: 02/13/25 16:45
Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			739024	ZN	EET BUF	02/14/25 12:07
Total/NA	Analysis	8260C		1	739146	LCH	EET BUF	02/17/25 23:11
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		1	739577	JMM	EET BUF	02/26/25 00:10
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		1	739473	JLS	EET BUF	02/24/25 15:00
Total/NA	Prep	3550C			739108	DP	EET BUF	02/17/25 07:16
Total/NA	Analysis	8082A		1	739195	H9RU	EET BUF	02/18/25 15:21
Total/NA	Prep	8151A			739471	DP	EET BUF	02/24/25 06:56
Total/NA	Analysis	8151A		1	739632	MAN	EET BUF	02/26/25 15:38
Total/NA	Prep	1633 Shake			645106	KML	EET CLE	02/17/25 13:48
Total/NA	Analysis	1633		1	645242	DSH	EET CLE	02/18/25 16:41
Total/NA	Prep	3050B			739036	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739173	BMB	EET BUF	02/17/25 18:05
Total/NA	Prep	7471B			739238	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 12:55

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8151A	8151A	Solid	Picloram
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Method Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
8151A	Herbicides (GC)	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227359-1	MW-3 0-2 ft	Solid	02/13/25 10:00	02/13/25 16:45
480-227359-2	SS-1	Solid	02/13/25 11:00	02/13/25 16:45
480-227359-3	SS-2	Solid	02/13/25 11:15	02/13/25 16:45
480-227359-4	SS-BD	Solid	02/13/25 11:20	02/13/25 16:45
480-227359-5	SS-4	Solid	02/13/25 13:00	02/13/25 16:45
480-227359-6	RISB-5 0-1 ft	Solid	02/13/25 14:05	02/13/25 16:45
480-227359-7	SS-3	Solid	02/13/25 15:05	02/13/25 16:45
480-227359-8	SS-9	Solid	02/13/25 15:15	02/13/25 16:45
480-227359-9	SS-10	Solid	02/13/25 15:30	02/13/25 16:45
480-227359-10	SS-8	Solid	02/13/25 15:35	02/13/25 16:45
480-227359-11	RISB-6 0.5-3 ft	Solid	02/13/25 14:30	02/13/25 16:45
480-227359-12	RISB-6 17-18 ft	Solid	02/13/25 15:00	02/13/25 16:45

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Bryan Mayback	Phone: 716-713-2937	Fischer, Brian J		480-202116-41517.6
Company: Roux Environmental Engineering and Geology DPC	PWSID:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 6 of 9
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: Standard			Job #:
City: Lackawanna	TAT Requested (days):			Preservation Codes: N - None
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested 4375.002000			
Email: bmayback@rouxinc.com	WO #:			
Project Name: North Aud Block - soil	Project #: 48028442			
Site:	SSOW#:			

480-227359 Chain of Custody

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	1633 - 1633 Standard List of 40	8082A, 8151A	6010C; 7471B	8081B, 8270D	TCL SVOCs + TICs	TAL Metals	PCB's	herbicides	pesticides	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N							
MW-3 0-2Ft	2/13/25	10:00	G	Solid								X	X			X		
SS-1		11:00		Solid				X	X	X	X							
SS-2		11:15		Solid				X	X	X	X							
SS-BD		11:20		Solid				X	X	X	X							
SS-4		1300		Solid				X	X	X	X							
RISB-5 0-1Ft		1405		Solid								X	X			X		
SS-3		1505		Solid				X	X	X	X							
SS-9		15:15		Solid				X	X	X	X							
SS-10		1530		Solid								X	X			X		
SS-8		15:35		Solid				X	X	X	X							
RISB-6 0.5-3Ft		1430		Solid								X	X			X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYSDec EQuIS

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 2/13/25 1640	Company: Roux	Received by:	Date/Time: 2/13/25 1645	Company: ETA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2 3.6 ICE IR#5c

Ver: 10/10/2024

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information

Client Contact: Bryan Mayback	Sampler: Nick Scacci
Company: Roux Environmental Engineering and Geology DPC	Phone: 716-713-3437
Address: 2558 Hamburg Turnpike Suite 300	PWSID:
City: Lackawanna	Due Date Requested: Standard
State, Zip: NY, 14218	TAT Requested (days):
Phone:	Compliance Project: Δ Yes Δ No
Email: bmayback@rouxinc.com	PO #: Purchase Order Requested 4375.0002.0003
Project Name: North Aud Block - soil	WO #:
Site:	Project #: 48028442
	SSOW#:

Lab PM:	Carrier Tracking No(s):	COC No:
Fischer, Brian J		480-202116-41517.7
E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 7 of 9
		Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	1633 - 1633 Standard List of 40	8082A, 8151A	6010C, 7471B	8081B, 8270D	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N	N		
~~TA-34 10 Ft~~				Solid			X	X	X	X	X		
RISB-6 7-10 Ft		1500		Solid			X	X	X	X	X		enclos
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYSDec EQuIS

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment:
Relinquished by:	Date/Time: 2/13/25 1640	Company: Roux	Received by:	Date/Time: 2/13/25 1645	Company: ETC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2 3.6 ICE IR# SL

Ver: 10/10/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer Brian J	Carrier Tracking No(s): N/A	COC No: 480-91446.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brian Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 2
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-227359-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 3/5/2025			
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

86-48

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SS-1 (480-227359-2)	2/13/25	11:00 Eastern	G	Solid			X	1	
SS-2 (480-227359-3)	2/13/25	11:15 Eastern	G	Solid			X	1	
SS-BD (480-227359-4)	2/13/25	11:20 Eastern	G	Solid			X	1	
SS-4 (480-227359-5)	2/13/25	13:00 Eastern	G	Solid			X	1	
SS-4 (480-227359-5MS)	2/13/25	13:00 Eastern	G	Solid			X	1	
SS-4 (480-227359-5MSD)	2/13/25	13:00 Eastern	G	Solid			X	1	
SS-3 (480-227359-7)	2/13/25	15:05 Eastern	G	Solid			X	1	
SS-9 (480-227359-8)	2/13/25	15:15 Eastern	G	Solid			X	1	
SS-8 (480-227359-10)	2/13/25	15:35 Eastern	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
KS	2-14-25 1600		MALISSA LOAR	2/17/25 930	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer Brian J	Carrier Tracking No(s): N/A	COC No: 480-91446.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 2 of 2
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-227359-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 3/5/2025			
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes.

Other: N/A

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RISB-6 17 18 ft (480-227359-12)	2/13/25	15:00 Eastern	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	2-14-25 1600		MALISSA LOAR	2/17/25 930	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	*Date/Time:*	*Company*	*Received by:*	*Date/Time:*	*Company*

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins - Cleveland Sample Receipt Form/Narrative Login # :

Barberton Facility

Client EUR Buffalo Site Name

Cooler Received on 2/17/25 Opened on 2/17/25

Cooler unpacked by MALISSA LOAR

FedEx. 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

Eurofins Cooler # 2 Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13 (CF 0 °C) Observed Cooler Temp. 2.7 °C Corrected Cooler Temp. 2.7 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3 Shippers' packing slip attached to the cooler(s)?	Yes	No
4 Did custody papers accompany the sample(s)?	Yes	No
5 Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7 Did all bottles arrive in good condition (Unbroken)?	Yes	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	Yes	No
11 Sufficient quantity received to perform indicated analyses?	Yes	No
12 Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC448976
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen.

SAMPLE CONTROL
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE

BUFFALO, NY 142282223
UNITED STATES US

ACTWGT 33.
CAD 0759273
DIMS 18x15x13

BILL SENDER

159469434 MTW EXP 08/25

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF. BARBERTON

FedEx Express

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 7463 0662 2785

XO CAKA

44203
OH-US CLE

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-227359-1

Login Number: 227359
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ROUX
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Generated 2/26/2025 3:48:32 PM

JOB DESCRIPTION

North Aud Block

JOB NUMBER

480-227384-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

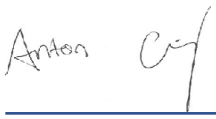
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
2/26/2025 3:48:32 PM

Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 12
Surrogate Summary 37
Isotope Dilution Summary 39
QC Sample Results 40
QC Association Summary 59
Lab Chronicle 63
Certification Summary 66
Method Summary 67
Sample Summary 68
Chain of Custody 69
Receipt Checklists 74

Definitions/Glossary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-227384-1 Eurofins Buffalo

Job Narrative
480-227384-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/14/2025 3:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4°C and 3.4°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-739146 recovered outside acceptance criteria, low biased, for 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, trans-1,3-Dichloropropene, Chlorodibromomethane, Ethylene dibromide and 1,4-Dichlorobenzene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analytes, the data are reported. The following associated sample is impacted: MW-5 2.5-4FT (480-227384-6).

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-739071 and analytical batch 480-739146 recovered outside control limits for the following analyte: Cyclohexane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The following associated sample is impacted: MW-5 2.5-4FT (480-227384-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: The following sample: MW-6 4-5FT (480-227384-1) was decanted prior to preparation.

Method 8270D: The following sample(s) was diluted due to color, appearance, and viscosity. MW-6 4-5FT (480-227384-1), RISB-8 0.5-4FT (480-227384-4), RISB-9 2-4FT (480-227384-5) and MW-5 2.5-4FT (480-227384-6). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MW-6 4-5FT (480-227384-1), RISB-8 0.5-4FT (480-227384-4), RISB-9 2-4FT (480-227384-5) and MW-5 2.5-4FT (480-227384-6).

Method 8081B: The following samples were diluted due to the nature of the sample matrix: MW-6 4-5FT (480-227384-1), RISB-8 0.5-4FT (480-227384-4) and RISB-9 2-4FT (480-227384-5). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 480-227384-1 (Continued) Eurofins Buffalo

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample ID: MW-6 4-5FT
Lab Sample ID: 480-227384-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1400	J	3800	560	ug/Kg	20	☼	8270D	Total/NA
Acenaphthylene	710	J	3800	490	ug/Kg	20	☼	8270D	Total/NA
Anthracene	3300	J	3800	940	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene	8000		3800	380	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	7200		3800	560	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	8300		3800	600	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	3800		3800	400	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	4300		3800	490	ug/Kg	20	☼	8270D	Total/NA
Carbazole	1400	J	3800	450	ug/Kg	20	☼	8270D	Total/NA
Chrysene	7400		3800	850	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	1100	J	3800	670	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	1100	J	3800	450	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	20000		3800	400	ug/Kg	20	☼	8270D	Total/NA
Fluorene	1600	J	3800	450	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	3100	J	3800	470	ug/Kg	20	☼	8270D	Total/NA
Naphthalene	880	J	3800	490	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	16000		3800	560	ug/Kg	20	☼	8270D	Total/NA
Pyrene	16000		3800	450	ug/Kg	20	☼	8270D	Total/NA
4,4'-DDT	29	J	37	8.7	ug/Kg	20	☼	8081B	Total/NA
Endosulfan sulfate	26	J	37	7.0	ug/Kg	20	☼	8081B	Total/NA
Endrin	20	J	37	7.4	ug/Kg	20	☼	8081B	Total/NA
Aluminum	11900		11.9	10.3	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.0		2.4	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	93.5		0.60	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.72		0.24	0.048	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.42		0.24	0.083	mg/Kg	1	☼	6010C	Total/NA
Calcium	26200		59.6	32.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	15.3		0.60	0.43	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.9		0.60	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	29.1		1.2	0.68	mg/Kg	1	☼	6010C	Total/NA
Iron	15100		11.9	10.1	mg/Kg	1	☼	6010C	Total/NA
Lead	110		1.2	0.55	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5240		23.8	10.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	313		1.2	0.33	mg/Kg	1	☼	6010C	Total/NA
Nickel	15.7		6.0	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	2320		35.8	28.9	mg/Kg	1	☼	6010C	Total/NA
Sodium	184		167	73.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.6		0.60	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	128		2.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.49		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-5
Lab Sample ID: 480-227384-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	13500		12.0	10.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.4		2.4	1.1	mg/Kg	1	☼	6010C	Total/NA
Barium	73.7		0.60	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.55		0.24	0.048	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.26		0.24	0.084	mg/Kg	1	☼	6010C	Total/NA
Calcium	45800		60.2	32.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.4		0.60	0.43	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-5 (Continued)
Lab Sample ID: 480-227384-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	7.8		0.60	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	15.1		1.2	0.69	mg/Kg	1	☼	6010C	Total/NA
Iron	16000		12.0	10.2	mg/Kg	1	☼	6010C	Total/NA
Lead	16.4		1.2	0.55	mg/Kg	1	☼	6010C	Total/NA
Magnesium	14300		24.1	10.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	391		1.2	0.34	mg/Kg	1	☼	6010C	Total/NA
Nickel	18.0		6.0	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	2950		36.1	29.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	258		168	73.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	26.8		0.60	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	57.2		2.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.034		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-6
Lab Sample ID: 480-227384-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	21	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Aluminum	12800		11.4	9.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.9		2.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	72.5		0.57	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.52		0.23	0.046	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.22	J	0.23	0.080	mg/Kg	1	☼	6010C	Total/NA
Calcium	55300		57.1	30.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	15.5		0.57	0.41	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.9		0.57	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	15.2		1.1	0.65	mg/Kg	1	☼	6010C	Total/NA
Iron	15500		11.4	9.7	mg/Kg	1	☼	6010C	Total/NA
Lead	12.4		1.1	0.53	mg/Kg	1	☼	6010C	Total/NA
Magnesium	18400		22.9	9.7	mg/Kg	1	☼	6010C	Total/NA
Manganese	372		1.1	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	17.6		5.7	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	2890		34.3	27.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	237		160	70.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	25.0		0.57	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	53.3		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.087		0.024	0.0055	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: RISB-8 0.5-4FT
Lab Sample ID: 480-227384-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	290	J	880	220	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	870	J	880	88	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	890		880	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1000		880	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	500	J	880	93	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	530	J	880	110	ug/Kg	5	☼	8270D	Total/NA
Carbazole	100	J	880	100	ug/Kg	5	☼	8270D	Total/NA
Chrysene	980		880	200	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	2000		880	93	ug/Kg	5	☼	8270D	Total/NA
Fluorene	100	J	880	100	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	420	J	880	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	1200		880	130	ug/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RISB-8 0.5-4FT (Continued)
Lab Sample ID: 480-227384-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	1600		880	100	ug/Kg	5	☼	8270D	Total/NA
Aluminum	10300		11.1	9.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.2		2.2	0.98	mg/Kg	1	☼	6010C	Total/NA
Barium	95.9		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.50		0.22	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.33		0.22	0.078	mg/Kg	1	☼	6010C	Total/NA
Calcium	40100		55.7	30.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.3		0.56	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.0		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	43.9		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Iron	18700		11.1	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	207		1.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Magnesium	10700		22.3	9.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	321		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	17.4		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	2580		33.4	27.0	mg/Kg	1	☼	6010C	Total/NA
Silver	0.31	J	0.67	0.22	mg/Kg	1	☼	6010C	Total/NA
Sodium	220		156	68.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.4		0.56	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	136		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.43		0.021	0.0049	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: RISB-9 2-4FT
Lab Sample ID: 480-227384-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	520	J	900	90	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	400	J	900	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	560	J	900	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	210	J	900	95	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	260	J	900	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	550	J	900	200	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1200		900	95	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	180	J	900	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	500	J	900	130	ug/Kg	5	☼	8270D	Total/NA
Pyrene	990		900	110	ug/Kg	5	☼	8270D	Total/NA
Endrin	4.2	J	18	3.5	ug/Kg	10	☼	8081B	Total/NA
Aluminum	10100		10.8	9.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	7.3		2.2	0.95	mg/Kg	1	☼	6010C	Total/NA
Barium	57.0		0.54	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.49		0.22	0.043	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.22		0.22	0.076	mg/Kg	1	☼	6010C	Total/NA
Calcium	24000		54.2	29.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	12.8		0.54	0.39	mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.1		0.54	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	31.0		1.1	0.62	mg/Kg	1	☼	6010C	Total/NA
Iron	20200		10.8	9.2	mg/Kg	1	☼	6010C	Total/NA
Lead	27.0		1.1	0.50	mg/Kg	1	☼	6010C	Total/NA
Magnesium	6290	F1	21.7	9.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	368	F1 F2	1.1	0.30	mg/Kg	1	☼	6010C	Total/NA
Nickel	21.0		5.4	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	2120	F1	32.5	26.3	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RISB-9 2-4FT (Continued)
Lab Sample ID: 480-227384-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	104	J	152	66.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	17.3		0.54	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	97.0		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.87		0.021	0.0048	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-5 2.5-4FT
Lab Sample ID: 480-227384-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	5.4	J	35	2.6	ug/Kg	1	☼	8260C	Total/NA
Acetone	28	J	35	5.9	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.46	J B	7.0	0.43	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	610	J	1300	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	530	J	1300	190	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	690	J	1300	200	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	290	J	1300	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	340	J	1300	170	ug/Kg	5	☼	8270D	Total/NA
Chrysene	670	J	1300	290	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1500		1300	140	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	230	J	1300	160	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	1400		1300	190	ug/Kg	5	☼	8270D	Total/NA
Pyrene	1100	J	1300	150	ug/Kg	5	☼	8270D	Total/NA
Perfluorooctanoic acid (PFOA)	0.062	J	0.20	0.050	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.11	J	0.20	0.050	ug/Kg	1	☼	1633	Total/NA
Aluminum	13400		16.3	14.1	mg/Kg	1	☼	6010C	Total/NA
Arsenic	10.1		3.3	1.4	mg/Kg	1	☼	6010C	Total/NA
Barium	135		0.82	0.23	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.61		0.33	0.065	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.29	J	0.33	0.11	mg/Kg	1	☼	6010C	Total/NA
Calcium	66100		81.5	44.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	17.7		0.82	0.59	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.0		0.82	0.16	mg/Kg	1	☼	6010C	Total/NA
Copper	40.8		1.6	0.93	mg/Kg	1	☼	6010C	Total/NA
Iron	21100		16.3	13.8	mg/Kg	1	☼	6010C	Total/NA
Lead	448		1.6	0.75	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7370		32.6	13.8	mg/Kg	1	☼	6010C	Total/NA
Manganese	279		1.6	0.46	mg/Kg	1	☼	6010C	Total/NA
Nickel	11.7		8.2	0.41	mg/Kg	1	☼	6010C	Total/NA
Potassium	2380		48.9	39.5	mg/Kg	1	☼	6010C	Total/NA
Silver	0.45	J	0.98	0.33	mg/Kg	1	☼	6010C	Total/NA
Sodium	1360		228	100	mg/Kg	1	☼	6010C	Total/NA
Vanadium	33.4		0.82	0.21	mg/Kg	1	☼	6010C	Total/NA
Zinc	127		3.3	1.7	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.96		0.030	0.0069	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Engineering and Geology DPC
Project/Site: North Aud Block

Job ID: 480-227384-1

Client Sample ID: MW-6 4-5FT
Date Collected: 02/14/25 10:00
Date Received: 02/14/25 15:40

Lab Sample ID: 480-227384-1
Matrix: Solid
Percent Solids: 88.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		3800	560	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
bis (2-chloroisopropyl) ether	ND		3800	760	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2,4,5-Trichlorophenol	ND		3800	1000	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2,4,6-Trichlorophenol	ND		3800	760	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2,4-Dichlorophenol	ND		3800	400	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2,4-Dimethylphenol	ND		3800	910	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2,4-Dinitrophenol	ND		37000	17000	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2,4-Dinitrotoluene	ND		3800	780	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2,6-Dinitrotoluene	ND		3800	450	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2-Chloronaphthalene	ND		3800	620	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
1,4-Dioxane	ND		2200	1200	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2-Chlorophenol	ND		7400	690	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2-Methylnaphthalene	ND		3800	760	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2-Methylphenol	ND		3800	450	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2-Nitroaniline	ND		7400	560	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
2-Nitrophenol	ND		3800	1100	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
3,3'-Dichlorobenzidine	ND		7400	4500	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
3-Nitroaniline	ND		7400	1000	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
4,6-Dinitro-2-methylphenol	ND		7400	3800	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
4-Bromophenyl phenyl ether	ND		3800	540	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
4-Chloro-3-methylphenol	ND		3800	940	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
4-Chloroaniline	ND		3800	940	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
4-Chlorophenyl phenyl ether	ND		3800	470	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
4-Methylphenol	ND		7400	450	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
4-Nitroaniline	ND		7400	2000	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
4-Nitrophenol	ND		7400	2700	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Acenaphthene	**1400**	**J**	3800	560	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Acenaphthylene	**710**	**J**	3800	490	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Acetophenone	ND		3800	510	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Anthracene	**3300**	**J**	3800	940	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Atrazine	ND		3800	1300	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Benzaldehyde	ND		3800	3000	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Benzo[a]anthracene	**8000**		3800	380	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Benzo[a]pyrene	**7200**		3800	560	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Benzo[b]fluoranthene	**8300**		3800	600	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Benzo[g,h,i]perylene	**3800**		3800	400	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Benzo[k]fluoranthene	**4300**		3800	490	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Bis(2-chloroethoxy)methane	ND		3800	800	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Bis(2-chloroethyl)ether	ND		3800	490	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Bis(2-ethylhexyl) phthalate	ND		3800	1300	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Butyl benzyl phthalate	ND		3800	620	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Caprolactam	ND		3800	1100	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Carbazole	**1400**	**J**	3800	450	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Chrysene	**7400**		3800	850	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Di-n-butyl phthalate	ND		3800	650	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Di-n-octyl phthalate	ND		3800	450	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Dibenz(a,h)anthracene	**1100**	**J**	3800	670	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Dibenzofuran	**1100**	**J**	3800	450	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Diethyl phthalate	ND		3800	490	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20

Client Sample ID: MW-6 4-5FT
Lab Sample ID: 480-227384-1
Date Collected: 02/14/25 10:00
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 88.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		3800	450	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Fluoranthene	**20000**		3800	400	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Fluorene	**1600**	**J**	3800	450	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Hexachlorobenzene	ND		3800	510	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Hexachlorobutadiene	ND		3800	560	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Hexachlorocyclopentadiene	ND		3800	510	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Hexachloroethane	ND		3800	490	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Indeno[1,2,3-cd]pyrene	**3100**	**J**	3800	470	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Isophorone	ND		3800	800	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
N-Nitrosodi-n-propylamine	ND		3800	650	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
N-Nitrosodiphenylamine	ND		3800	3100	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Naphthalene	**880**	**J**	3800	490	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Nitrobenzene	ND		3800	420	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Pentachlorophenol	ND		7400	3800	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Phenanthrene	**16000**		3800	560	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Phenol	ND		3800	580	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20
Pyrene	**16000**		3800	450	ug/Kg	☼	02/19/25 06:54	02/19/25 21:03	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Methane, bromochloro-	*3800*	*T J N*	*ug/Kg*	☼	*2.30*	*74-97-5*	*02/19/25 06:54*	*02/19/25 21:03*	*20*
4H-Cyclopenta[def]phenanthrene	*3100*	*T J N*	*ug/Kg*	☼	*11.55*	*203-64-5*	*02/19/25 06:54*	*02/19/25 21:03*	*20*
Benzo[j]fluoranthene	*4300*	*T J N*	*ug/Kg*	☼	*14.43*	*205-82-3*	*02/19/25 06:54*	*02/19/25 21:03*	*20*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*26 - 143*	*02/19/25 06:54*	*02/19/25 21:03*	*20*
2-Fluorobiphenyl	*80*		*50 - 121*	*02/19/25 06:54*	*02/19/25 21:03*	*20*
2-Fluorophenol	*63*		*36 - 120*	*02/19/25 06:54*	*02/19/25 21:03*	*20*
Nitrobenzene-d5	*68*		*40 - 121*	*02/19/25 06:54*	*02/19/25 21:03*	*20*
p-Terphenyl-d14	*84*		*46 - 143*	*02/19/25 06:54*	*02/19/25 21:03*	*20*
Phenol-d5	*74*		*41 - 120*	*02/19/25 06:54*	*02/19/25 21:03*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		37	7.3	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
4,4'-DDE	ND		37	7.8	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
4,4'-DDT	**29**	**J**	37	8.7	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
Aldrin	ND		37	9.2	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
alpha-BHC	ND		37	6.7	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
cis-Chlordane	ND		37	19	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
beta-BHC	ND		37	6.7	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
delta-BHC	ND		37	7.0	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
Dieldrin	ND		37	9.0	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
Endosulfan I	ND		37	7.2	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
Endosulfan II	ND		37	6.7	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
Endosulfan sulfate	**26**	**J**	37	7.0	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
Endrin	**20**	**J**	37	7.4	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
Endrin aldehyde	ND		37	9.6	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
Endrin ketone	ND		37	9.2	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
gamma-BHC (Lindane)	ND		37	6.9	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
trans-Chlordane	ND		37	12	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20

Client Sample ID: MW-6 4-5FT
Lab Sample ID: 480-227384-1

Date Collected: 02/14/25 10:00
Matrix: Solid

Date Received: 02/14/25 15:40
Percent Solids: 88.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		37	8.1	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
Heptachlor epoxide	ND		37	9.6	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
Methoxychlor	ND		37	7.6	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20
Toxaphene	ND		370	220	ug/Kg	☼	02/21/25 08:39	02/24/25 15:19	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*273*	*S1+*	*45 - 120*	*02/21/25 08:39*	*02/24/25 15:19*	*20*
DCB Decachlorobiphenyl	*2160*	*S1+*	*45 - 120*	*02/21/25 08:39*	*02/24/25 15:19*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*02/21/25 08:39*	*02/24/25 15:19*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*02/21/25 08:39*	*02/24/25 15:19*	*20*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11900**		11.9	10.3	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Antimony	ND		17.9	0.63	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Arsenic	**4.0**		2.4	1.0	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Barium	**93.5**		0.60	0.17	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Beryllium	**0.72**		0.24	0.048	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Cadmium	**0.42**		0.24	0.083	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Calcium	**26200**		59.6	32.2	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Chromium	**15.3**		0.60	0.43	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Cobalt	**4.9**		0.60	0.12	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Copper	**29.1**		1.2	0.68	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Iron	**15100**		11.9	10.1	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Lead	**110**		1.2	0.55	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Magnesium	**5240**		23.8	10.1	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Manganese	**313**		1.2	0.33	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Nickel	**15.7**		6.0	0.30	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Potassium	**2320**		35.8	28.9	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Selenium	ND		4.8	0.95	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Silver	ND		0.72	0.24	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Sodium	**184**		167	73.1	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Thallium	ND		7.2	0.91	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Vanadium	**21.6**		0.60	0.15	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1
Zinc	**128**		2.4	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 20:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.49**		0.023	0.0053	mg/Kg	☼	02/19/25 09:48	02/19/25 13:44	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Client Sample ID: SS-5
Lab Sample ID: 480-227384-2
Date Collected: 02/14/25 12:15
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 85.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	29	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2,4,5-Trichlorophenol	ND		190	53	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2,4-Dichlorophenol	ND		190	21	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2,4-Dimethylphenol	ND		190	47	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
1,4-Dioxane	ND		110	63	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2-Chlorophenol	ND		380	35	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2-Methylphenol	ND		190	23	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
2-Nitrophenol	ND		190	55	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
4,6-Dinitro-2-methylphenol	ND		380	190	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
4-Methylphenol	ND		380	23	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Acenaphthene	ND		190	29	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Acenaphthylene	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Acetophenone	ND		190	26	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Anthracene	ND		190	48	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Atrazine	ND		190	67	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Benzaldehyde	ND		190	150	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Benzo[a]pyrene	ND		190	29	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Benzo[b]fluoranthene	ND		190	31	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Benzo[g,h,i]perylene	ND		190	21	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Caprolactam	ND		190	58	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Carbazole	ND		190	23	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Chrysene	ND		190	43	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Dibenzofuran	ND		190	23	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1

Client Sample ID: SS-5
Date Collected: 02/14/25 12:15
Date Received: 02/14/25 15:40

Lab Sample ID: 480-227384-2
Matrix: Solid
Percent Solids: 85.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		190	23	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Fluoranthene	ND		190	21	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Fluorene	ND		190	23	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Hexachlorobutadiene	ND		190	29	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Hexachloroethane	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Isophorone	ND		190	41	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Naphthalene	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Nitrobenzene	ND		190	22	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Pentachlorophenol	ND		380	190	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Phenanthrene	ND		190	29	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Phenol	ND		190	30	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1
Pyrene	ND		190	23	ug/Kg	☼	02/19/25 06:54	02/19/25 21:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Methane, bromochloro-	*160*	*T J N*	*ug/Kg*	☼	*2.28*	*74-97-5*	*02/19/25 06:54*	*02/19/25 21:29*	*1*
Unknown	*2900*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/19/25 06:54*	*02/19/25 21:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*26 - 143*	*02/19/25 06:54*	*02/19/25 21:29*	*1*
2-Fluorobiphenyl	*90*		*50 - 121*	*02/19/25 06:54*	*02/19/25 21:29*	*1*
2-Fluorophenol	*75*		*36 - 120*	*02/19/25 06:54*	*02/19/25 21:29*	*1*
Nitrobenzene-d5	*81*		*40 - 121*	*02/19/25 06:54*	*02/19/25 21:29*	*1*
p-Terphenyl-d14	*96*		*46 - 143*	*02/19/25 06:54*	*02/19/25 21:29*	*1*
Phenol-d5	*85*		*41 - 120*	*02/19/25 06:54*	*02/19/25 21:29*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
alpha-BHC	ND		1.9	0.35	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
cis-Chlordane	ND		1.9	0.96	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
beta-BHC	ND		1.9	0.35	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
delta-BHC	ND		1.9	0.36	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
Endosulfan II	ND		1.9	0.35	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
Endrin	ND		1.9	0.38	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
trans-Chlordane	ND		1.9	0.61	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
Heptachlor	ND		1.9	0.42	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1

Client Sample ID: SS-5
Date Collected: 02/14/25 12:15
Date Received: 02/14/25 15:40

Lab Sample ID: 480-227384-2
Matrix: Solid
Percent Solids: 85.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		1.9	0.50	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1
Toxaphene	ND		19	11	ug/Kg	☼	02/21/25 08:39	02/24/25 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*45 - 120*	*02/21/25 08:39*	*02/24/25 15:39*	*1*
DCB Decachlorobiphenyl	*97*		*45 - 120*	*02/21/25 08:39*	*02/24/25 15:39*	*1*
Tetrachloro-m-xylene	*84*		*30 - 124*	*02/21/25 08:39*	*02/24/25 15:39*	*1*
Tetrachloro-m-xylene	*87*		*30 - 124*	*02/21/25 08:39*	*02/24/25 15:39*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13500**		12.0	10.4	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Antimony	ND		18.0	0.64	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Arsenic	**3.4**		2.4	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Barium	**73.7**		0.60	0.17	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Beryllium	**0.55**		0.24	0.048	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Cadmium	**0.26**		0.24	0.084	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Calcium	**45800**		60.2	32.5	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Chromium	**16.4**		0.60	0.43	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Cobalt	**7.8**		0.60	0.12	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Copper	**15.1**		1.2	0.69	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Iron	**16000**		12.0	10.2	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Lead	**16.4**		1.2	0.55	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Magnesium	**14300**		24.1	10.2	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Manganese	**391**		1.2	0.34	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Nickel	**18.0**		6.0	0.30	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Potassium	**2950**		36.1	29.2	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Selenium	ND		4.8	0.96	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Silver	ND		0.72	0.24	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Sodium	**258**		168	73.8	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Thallium	ND		7.2	0.91	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Vanadium	**26.8**		0.60	0.16	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1
Zinc	**57.2**		2.4	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 20:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.022	0.0051	mg/Kg	☼	02/19/25 09:48	02/19/25 13:45	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Client Sample ID: SS-6
Lab Sample ID: 480-227384-3
Date Collected: 02/14/25 13:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 88.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2,4-Dinitrophenol	ND		1900	880	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
1,4-Dioxane	ND		110	62	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2-Chlorophenol	ND		370	35	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2-Methylphenol	ND		190	22	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
4-Methylphenol	ND		370	22	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Acenaphthene	ND		190	28	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Acenaphthylene	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Acetophenone	ND		190	26	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Anthracene	ND		190	47	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Atrazine	ND		190	66	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Benzaldehyde	ND		190	150	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Caprolactam	ND		190	57	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Carbazole	ND		190	22	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Chrysene	ND		190	43	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Dibenzofuran	ND		190	22	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1

Client Sample ID: SS-6
Lab Sample ID: 480-227384-3
Date Collected: 02/14/25 13:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 88.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		190	22	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Fluoranthene	**21**	**J**	190	20	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Fluorene	ND		190	22	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Hexachloroethane	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Isophorone	ND		190	40	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Naphthalene	ND		190	25	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Nitrobenzene	ND		190	21	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Phenanthrene	ND		190	28	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Phenol	ND		190	29	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1
Pyrene	ND		190	22	ug/Kg	☼	02/19/25 06:54	02/19/25 21:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3000*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/19/25 06:54*	*02/19/25 21:55*	*1*
Unknown	*3100*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/19/25 06:54*	*02/19/25 21:55*	*1*
Unknown	*190*	*T J*	*ug/Kg*	☼	*16.10*	*N/A*	*02/19/25 06:54*	*02/19/25 21:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*26 - 143*	*02/19/25 06:54*	*02/19/25 21:55*	*1*
2-Fluorobiphenyl	*91*		*50 - 121*	*02/19/25 06:54*	*02/19/25 21:55*	*1*
2-Fluorophenol	*81*		*36 - 120*	*02/19/25 06:54*	*02/19/25 21:55*	*1*
Nitrobenzene-d5	*84*		*40 - 121*	*02/19/25 06:54*	*02/19/25 21:55*	*1*
p-Terphenyl-d14	*104*		*46 - 143*	*02/19/25 06:54*	*02/19/25 21:55*	*1*
Phenol-d5	*91*		*41 - 120*	*02/19/25 06:54*	*02/19/25 21:55*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.36	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
4,4'-DDE	ND		1.9	0.39	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
4,4'-DDT	ND		1.9	0.43	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
Aldrin	ND		1.9	0.46	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
alpha-BHC	ND		1.9	0.33	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
cis-Chlordane	ND		1.9	0.92	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
beta-BHC	ND		1.9	0.33	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
delta-BHC	ND		1.9	0.34	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
Dieldrin	ND		1.9	0.44	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
Endosulfan I	ND		1.9	0.36	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
Endosulfan II	ND		1.9	0.33	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
Endosulfan sulfate	ND		1.9	0.35	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
Endrin	ND		1.9	0.37	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
Endrin aldehyde	ND		1.9	0.47	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
Endrin ketone	ND		1.9	0.46	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
gamma-BHC (Lindane)	ND		1.9	0.34	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
trans-Chlordane	ND		1.9	0.59	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1

Client Sample ID: SS-6
Date Collected: 02/14/25 13:30
Date Received: 02/14/25 15:40

Lab Sample ID: 480-227384-3
Matrix: Solid
Percent Solids: 88.0

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.40	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
Heptachlor epoxide	ND		1.9	0.48	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
Methoxychlor	ND		1.9	0.38	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1
Toxaphene	ND		19	11	ug/Kg	☼	02/21/25 08:39	02/24/25 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*45 - 120*	*02/21/25 08:39*	*02/24/25 15:58*	*1*
DCB Decachlorobiphenyl	*104*		*45 - 120*	*02/21/25 08:39*	*02/24/25 15:58*	*1*
Tetrachloro-m-xylene	*92*		*30 - 124*	*02/21/25 08:39*	*02/24/25 15:58*	*1*
Tetrachloro-m-xylene	*92*		*30 - 124*	*02/21/25 08:39*	*02/24/25 15:58*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	02/18/25 15:30	02/19/25 17:55	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	02/18/25 15:30	02/19/25 17:55	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	02/18/25 15:30	02/19/25 17:55	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	02/18/25 15:30	02/19/25 17:55	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	02/18/25 15:30	02/19/25 17:55	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	02/18/25 15:30	02/19/25 17:55	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	02/18/25 15:30	02/19/25 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*60 - 154*	*02/18/25 15:30*	*02/19/25 17:55*	*1*
Tetrachloro-m-xylene	*106*		*60 - 154*	*02/18/25 15:30*	*02/19/25 17:55*	*1*
DCB Decachlorobiphenyl	*136*		*65 - 174*	*02/18/25 15:30*	*02/19/25 17:55*	*1*
DCB Decachlorobiphenyl	*113*		*65 - 174*	*02/18/25 15:30*	*02/19/25 17:55*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.0	ug/Kg	☼	02/19/25 09:29	02/24/25 19:34	1
Silvex (2,4,5-TP)	ND		19	6.8	ug/Kg	☼	02/19/25 09:29	02/24/25 19:34	1
2,4-D	ND		19	12	ug/Kg	☼	02/19/25 09:29	02/24/25 19:34	1
Dichlorprop	ND		19	9.4	ug/Kg	☼	02/19/25 09:29	02/24/25 19:34	1
Pentachlorophenol	ND		19	6.2	ug/Kg	☼	02/19/25 09:29	02/24/25 19:34	1
Picloram	ND		19	8.1	ug/Kg	☼	02/19/25 09:29	02/24/25 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*62*		*28 - 129*	*02/19/25 09:29*	*02/24/25 19:34*	*1*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*02/19/25 09:29*	*02/24/25 19:34*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.57	0.14	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluoropentanoic acid (PFPeA)	ND		0.29	0.072	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorohexanoic acid (PFHxA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluoroheptanoic acid (PFHpA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorooctanoic acid (PFOA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorononanoic acid (PFNA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorodecanoic acid (PFDA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorododecanoic acid (PFDoA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1

Client Sample ID: SS-6
Date Collected: 02/14/25 13:30
Date Received: 02/14/25 15:40

Lab Sample ID: 480-227384-3
Matrix: Solid
Percent Solids: 88.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorononanesulfonic acid (PFNS)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.57	0.14	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.57	0.14	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.57	0.14	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.4	0.36	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.4	0.36	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.57	0.14	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.57	0.14	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.29	0.072	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.29	0.072	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.57	0.14	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.57	0.14	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.29	0.072	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.72	0.18	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.6	0.90	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.6	0.90	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.14	0.036	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.29	0.072	ug/Kg	☼	02/20/25 15:27	02/21/25 17:19	1

Client Sample ID: SS-6
Date Collected: 02/14/25 13:30
Date Received: 02/14/25 15:40

Lab Sample ID: 480-227384-3
Matrix: Solid
Percent Solids: 88.0

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	88.9		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C5 PFPeA	96.6		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C5 PFHxA	88.2		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C4 PFHpA	90.2		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C8 PFOA	82.0		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C9 PFNA	89.5		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C6 PFDA	88.7		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C7 PFUnA	84.6		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C2 PFTeDA	72.5		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C3 PFBS	79.1		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C3 PFHxS	79.0		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C8 PFOS	87.7		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C8 PFOSA	90.9		20 - 150	02/20/25 15:27	02/21/25 17:19	1
d3-NMeFOSAA	74.1		20 - 150	02/20/25 15:27	02/21/25 17:19	1
d5-NEtFOSAA	81.4		20 - 150	02/20/25 15:27	02/21/25 17:19	1
M2-4:2 FTS	76.1		20 - 150	02/20/25 15:27	02/21/25 17:19	1
M2-6:2 FTS	71.4		20 - 150	02/20/25 15:27	02/21/25 17:19	1
M2-8:2 FTS	73.5		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C3 HFPO-DA	95.8		20 - 150	02/20/25 15:27	02/21/25 17:19	1
d7-N-MeFOSE-M	64.3		20 - 150	02/20/25 15:27	02/21/25 17:19	1
d9-N-EtFOSE-M	58.7		20 - 150	02/20/25 15:27	02/21/25 17:19	1
d5-NEtPFOSA	72.1		20 - 150	02/20/25 15:27	02/21/25 17:19	1
D3-NMeFOSA	76.8		20 - 150	02/20/25 15:27	02/21/25 17:19	1
13C2-PFDoDA	83.6		20 - 150	02/20/25 15:27	02/21/25 17:19	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12800**		11.4	9.9	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Antimony	ND		17.1	0.61	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Arsenic	**2.9**		2.3	1.0	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Barium	**72.5**		0.57	0.16	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Beryllium	**0.52**		0.23	0.046	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Cadmium	**0.22**	**J**	0.23	0.080	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Calcium	**55300**		57.1	30.8	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Chromium	**15.5**		0.57	0.41	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Cobalt	**6.9**		0.57	0.11	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Copper	**15.2**		1.1	0.65	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Iron	**15500**		11.4	9.7	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Lead	**12.4**		1.1	0.53	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Magnesium	**18400**		22.9	9.7	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Manganese	**372**		1.1	0.32	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Nickel	**17.6**		5.7	0.29	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Potassium	**2890**		34.3	27.7	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Selenium	ND		4.6	0.91	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Silver	ND		0.69	0.23	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Sodium	**237**		160	70.1	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Thallium	ND		6.9	0.87	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Vanadium	**25.0**		0.57	0.15	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1
Zinc	**53.3**		2.3	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 20:11	1

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Client Sample ID: SS-6
Lab Sample ID: 480-227384-3
Date Collected: 02/14/25 13:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 88.0

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.087		0.024	0.0055	mg/Kg	☼	02/19/25 09:48	02/19/25 13:46	1

Client: Roux Environmental Engineering and Geology DPC
Project/Site: North Aud Block

Job ID: 480-227384-1

Client Sample ID: RISB-8 0.5-4FT
Date Collected: 02/14/25 12:30
Date Received: 02/14/25 15:40

Lab Sample ID: 480-227384-4
Matrix: Solid
Percent Solids: 95.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		880	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
bis (2-chloroisopropyl) ether	ND		880	180	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2,4,5-Trichlorophenol	ND		880	240	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2,4,6-Trichlorophenol	ND		880	180	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2,4-Dichlorophenol	ND		880	93	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2,4-Dimethylphenol	ND		880	210	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2,4-Dinitrophenol	ND		8600	4100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2,4-Dinitrotoluene	ND		880	180	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2,6-Dinitrotoluene	ND		880	100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2-Chloronaphthalene	ND		880	150	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
1,4-Dioxane	ND		520	280	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2-Chlorophenol	ND		1700	160	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2-Methylnaphthalene	ND		880	180	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2-Methylphenol	ND		880	100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2-Nitroaniline	ND		1700	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
2-Nitrophenol	ND		880	250	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
3,3'-Dichlorobenzidine	ND		1700	1000	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
3-Nitroaniline	ND		1700	240	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
4,6-Dinitro-2-methylphenol	ND		1700	880	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
4-Bromophenyl phenyl ether	ND		880	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
4-Chloro-3-methylphenol	ND		880	220	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
4-Chloroaniline	ND		880	220	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
4-Chlorophenyl phenyl ether	ND		880	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
4-Methylphenol	ND		1700	100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
4-Nitroaniline	ND		1700	460	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
4-Nitrophenol	ND		1700	620	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Acenaphthene	ND		880	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Acenaphthylene	ND		880	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Acetophenone	ND		880	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Anthracene	**290**	**J**	880	220	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Atrazine	ND		880	310	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Benzaldehyde	ND		880	700	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Benzo[a]anthracene	**870**	**J**	880	88	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Benzo[a]pyrene	**890**		880	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Benzo[b]fluoranthene	**1000**		880	140	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Benzo[g,h,i]perylene	**500**	**J**	880	93	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Benzo[k]fluoranthene	**530**	**J**	880	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Bis(2-chloroethoxy)methane	ND		880	190	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Bis(2-chloroethyl)ether	ND		880	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Bis(2-ethylhexyl) phthalate	ND		880	300	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Butyl benzyl phthalate	ND		880	150	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Caprolactam	ND		880	260	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Carbazole	**100**	**J**	880	100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Chrysene	**980**		880	200	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Di-n-butyl phthalate	ND		880	150	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Di-n-octyl phthalate	ND		880	100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Dibenz(a,h)anthracene	ND		880	160	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Dibenzofuran	ND		880	100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Diethyl phthalate	ND		880	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5

Client Sample ID: RISB-8 0.5-4FT
Lab Sample ID: 480-227384-4
Date Collected: 02/14/25 12:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 95.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		880	100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Fluoranthene	**2000**		880	93	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Fluorene	**100**	**J**	880	100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Hexachlorobenzene	ND		880	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Hexachlorobutadiene	ND		880	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Hexachlorocyclopentadiene	ND		880	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Hexachloroethane	ND		880	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Indeno[1,2,3-cd]pyrene	**420**	**J**	880	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Isophorone	ND		880	190	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
N-Nitrosodi-n-propylamine	ND		880	150	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
N-Nitrosodiphenylamine	ND		880	710	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Naphthalene	ND		880	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Nitrobenzene	ND		880	98	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Pentachlorophenol	ND		1700	880	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Phenanthrene	**1200**		880	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Phenol	ND		880	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5
Pyrene	**1600**		880	100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:21	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Methane, bromochloro-	*940*	*T J N*	*ug/Kg*	☼	*2.29*	*74-97-5*	*02/19/25 06:54*	*02/19/25 22:21*	*5*
Unknown	*2300*	*T J*	*ug/Kg*	☼	*3.48*	*N/A*	*02/19/25 06:54*	*02/19/25 22:21*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*26 - 143*	*02/19/25 06:54*	*02/19/25 22:21*	*5*
2-Fluorobiphenyl	*84*		*50 - 121*	*02/19/25 06:54*	*02/19/25 22:21*	*5*
2-Fluorophenol	*73*		*36 - 120*	*02/19/25 06:54*	*02/19/25 22:21*	*5*
Nitrobenzene-d5	*70*		*40 - 121*	*02/19/25 06:54*	*02/19/25 22:21*	*5*
p-Terphenyl-d14	*88*		*46 - 143*	*02/19/25 06:54*	*02/19/25 22:21*	*5*
Phenol-d5	*79*		*41 - 120*	*02/19/25 06:54*	*02/19/25 22:21*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		34	6.7	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
4,4'-DDE	ND		34	7.2	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
4,4'-DDT	ND		34	8.1	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
Aldrin	ND		34	8.5	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
alpha-BHC	ND		34	6.2	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
cis-Chlordane	ND		34	17	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
beta-BHC	ND		34	6.2	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
delta-BHC	ND		34	6.4	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
Dieldrin	ND		34	8.3	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
Endosulfan I	ND		34	6.6	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
Endosulfan II	ND		34	6.2	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
Endosulfan sulfate	ND		34	6.4	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
Endrin	ND		34	6.8	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
Endrin aldehyde	ND		34	8.8	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
Endrin ketone	ND		34	8.5	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
gamma-BHC (Lindane)	ND		34	6.3	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
trans-Chlordane	ND		34	11	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
Heptachlor	ND		34	7.5	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20

Client Sample ID: RISB-8 0.5-4FT
Lab Sample ID: 480-227384-4

Date Collected: 02/14/25 12:30
Matrix: Solid

Date Received: 02/14/25 15:40
Percent Solids: 95.3

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		34	8.9	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
Methoxychlor	ND		34	7.0	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20
Toxaphene	ND		340	200	ug/Kg	☼	02/21/25 08:39	02/24/25 16:18	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*02/21/25 08:39*	*02/24/25 16:18*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*02/21/25 08:39*	*02/24/25 16:18*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*02/21/25 08:39*	*02/24/25 16:18*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*02/21/25 08:39*	*02/24/25 16:18*	*20*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10300**		11.1	9.6	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Antimony	ND		16.7	0.59	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Arsenic	**5.2**		2.2	0.98	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Barium	**95.9**		0.56	0.16	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Beryllium	**0.50**		0.22	0.045	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Cadmium	**0.33**		0.22	0.078	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Calcium	**40100**		55.7	30.1	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Chromium	**16.3**		0.56	0.40	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Cobalt	**6.0**		0.56	0.11	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Copper	**43.9**		1.1	0.64	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Iron	**18700**		11.1	9.5	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Lead	**207**		1.1	0.51	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Magnesium	**10700**		22.3	9.5	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Manganese	**321**		1.1	0.31	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Nickel	**17.4**		5.6	0.28	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Potassium	**2580**		33.4	27.0	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Selenium	ND		4.5	0.89	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Silver	**0.31**	**J**	0.67	0.22	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Sodium	**220**		156	68.3	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Thallium	ND		6.7	0.85	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Vanadium	**22.4**		0.56	0.14	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1
Zinc	**136**		2.2	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 20:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.43**		0.021	0.0049	mg/Kg	☼	02/19/25 09:48	02/19/25 13:48	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Client Sample ID: RISB-9 2-4FT
Lab Sample ID: 480-227384-5
Date Collected: 02/14/25 13:15
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 92.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		900	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
bis (2-chloroisopropyl) ether	ND		900	180	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2,4,5-Trichlorophenol	ND		900	240	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2,4,6-Trichlorophenol	ND		900	180	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2,4-Dichlorophenol	ND		900	95	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2,4-Dimethylphenol	ND		900	220	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2,4-Dinitrophenol	ND		8800	4100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2,4-Dinitrotoluene	ND		900	190	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2,6-Dinitrotoluene	ND		900	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2-Chloronaphthalene	ND		900	150	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
1,4-Dioxane	ND		530	290	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2-Chlorophenol	ND		1700	160	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2-Methylnaphthalene	ND		900	180	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2-Methylphenol	ND		900	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2-Nitroaniline	ND		1700	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
2-Nitrophenol	ND		900	250	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
3,3'-Dichlorobenzidine	ND		1700	1100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
3-Nitroaniline	ND		1700	250	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
4,6-Dinitro-2-methylphenol	ND		1700	900	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
4-Bromophenyl phenyl ether	ND		900	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
4-Chloro-3-methylphenol	ND		900	220	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
4-Chloroaniline	ND		900	220	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
4-Chlorophenyl phenyl ether	ND		900	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
4-Methylphenol	ND		1700	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
4-Nitroaniline	ND		1700	470	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
4-Nitrophenol	ND		1700	630	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Acenaphthene	ND		900	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Acenaphthylene	ND		900	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Acetophenone	ND		900	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Anthracene	ND		900	220	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Atrazine	ND		900	310	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Benzaldehyde	ND		900	710	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Benzo[a]anthracene	**520**	**J**	900	90	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Benzo[a]pyrene	**400**	**J**	900	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Benzo[b]fluoranthene	**560**	**J**	900	140	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Benzo[g,h,i]perylene	**210**	**J**	900	95	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Benzo[k]fluoranthene	**260**	**J**	900	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Bis(2-chloroethoxy)methane	ND		900	190	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Bis(2-chloroethyl)ether	ND		900	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Bis(2-ethylhexyl) phthalate	ND		900	310	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Butyl benzyl phthalate	ND		900	150	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Caprolactam	ND		900	270	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Carbazole	ND		900	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Chrysene	**550**	**J**	900	200	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Di-n-butyl phthalate	ND		900	150	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Di-n-octyl phthalate	ND		900	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Dibenz(a,h)anthracene	ND		900	160	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Dibenzofuran	ND		900	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Diethyl phthalate	ND		900	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5

Client Sample ID: RISB-9 2-4FT
Lab Sample ID: 480-227384-5
Date Collected: 02/14/25 13:15
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 92.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		900	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Fluoranthene	**1200**		900	95	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Fluorene	ND		900	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Hexachlorobenzene	ND		900	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Hexachlorobutadiene	ND		900	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Hexachlorocyclopentadiene	ND		900	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Hexachloroethane	ND		900	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Indeno[1,2,3-cd]pyrene	**180**	**J**	900	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Isophorone	ND		900	190	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
N-Nitrosodi-n-propylamine	ND		900	150	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
N-Nitrosodiphenylamine	ND		900	730	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Naphthalene	ND		900	120	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Nitrobenzene	ND		900	100	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Pentachlorophenol	ND		1700	900	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Phenanthrene	**500**	**J**	900	130	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Phenol	ND		900	140	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5
Pyrene	**990**		900	110	ug/Kg	☼	02/19/25 06:54	02/19/25 22:47	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Methane, bromochloro-	*910*	*T J N*	*ug/Kg*	☼	*2.29*	*74-97-5*	*02/19/25 06:54*	*02/19/25 22:47*	*5*
Unknown	*2700*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/19/25 06:54*	*02/19/25 22:47*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*26 - 143*	*02/19/25 06:54*	*02/19/25 22:47*	*5*
2-Fluorobiphenyl	*85*		*50 - 121*	*02/19/25 06:54*	*02/19/25 22:47*	*5*
2-Fluorophenol	*71*		*36 - 120*	*02/19/25 06:54*	*02/19/25 22:47*	*5*
Nitrobenzene-d5	*71*		*40 - 121*	*02/19/25 06:54*	*02/19/25 22:47*	*5*
p-Terphenyl-d14	*89*		*46 - 143*	*02/19/25 06:54*	*02/19/25 22:47*	*5*
Phenol-d5	*76*		*41 - 120*	*02/19/25 06:54*	*02/19/25 22:47*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		18	3.5	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
4,4'-DDE	ND		18	3.7	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
4,4'-DDT	ND		18	4.2	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
Aldrin	ND		18	4.4	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
alpha-BHC	ND		18	3.2	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
cis-Chlordane	ND		18	8.8	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
beta-BHC	ND		18	3.2	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
delta-BHC	ND		18	3.3	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
Dieldrin	ND		18	4.3	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
Endosulfan I	ND		18	3.4	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
Endosulfan II	ND		18	3.2	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
Endosulfan sulfate	ND		18	3.3	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
Endrin	**4.2**	**J**	18	3.5	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
Endrin aldehyde	ND		18	4.5	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
Endrin ketone	ND		18	4.4	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
gamma-BHC (Lindane)	ND		18	3.3	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
trans-Chlordane	ND		18	5.6	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
Heptachlor	ND		18	3.8	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10

Client Sample ID: RISB-9 2-4FT
Lab Sample ID: 480-227384-5

Date Collected: 02/14/25 13:15
Matrix: Solid

Date Received: 02/14/25 15:40
Percent Solids: 92.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		18	4.6	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
Methoxychlor	ND		18	3.6	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10
Toxaphene	ND		180	100	ug/Kg	☼	02/21/25 08:39	02/24/25 16:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*169*	*S1+*	*45 - 120*	*02/21/25 08:39*	*02/24/25 16:57*	*10*
DCB Decachlorobiphenyl	*813*	*S1+*	*45 - 120*	*02/21/25 08:39*	*02/24/25 16:57*	*10*
Tetrachloro-m-xylene	*67*		*30 - 124*	*02/21/25 08:39*	*02/24/25 16:57*	*10*
Tetrachloro-m-xylene	*78*		*30 - 124*	*02/21/25 08:39*	*02/24/25 16:57*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10100**		10.8	9.4	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Antimony	ND	F1	16.3	0.57	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Arsenic	**7.3**		2.2	0.95	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Barium	**57.0**		0.54	0.15	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Beryllium	**0.49**		0.22	0.043	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Cadmium	**0.22**		0.22	0.076	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Calcium	**24000**		54.2	29.3	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Chromium	**12.8**		0.54	0.39	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Cobalt	**7.1**		0.54	0.11	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Copper	**31.0**		1.1	0.62	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Iron	**20200**		10.8	9.2	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Lead	**27.0**		1.1	0.50	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Magnesium	**6290**	**F1**	21.7	9.2	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Manganese	**368**	**F1 F2**	1.1	0.30	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Nickel	**21.0**		5.4	0.27	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Potassium	**2120**	**F1**	32.5	26.3	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Selenium	ND		4.3	0.87	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Silver	ND		0.65	0.22	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Sodium	**104**	**J**	152	66.5	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Thallium	ND		6.5	0.82	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Vanadium	**17.3**		0.54	0.14	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1
Zinc	**97.0**		2.2	1.1	mg/Kg	☼	02/15/25 15:47	02/17/25 20:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.87**		0.021	0.0048	mg/Kg	☼	02/19/25 09:48	02/19/25 13:49	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Client Sample ID: MW-5 2.5-4FT
Lab Sample ID: 480-227384-6
Date Collected: 02/14/25 14:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 64.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		7.0	0.51	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,1,2,2-Tetrachloroethane	ND		7.0	1.1	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.0	1.6	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,1,2-Trichloroethane	ND		7.0	0.91	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,1-Dichloroethane	ND		7.0	0.85	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,1-Dichloroethene	ND		7.0	0.86	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,2,4-Trichlorobenzene	ND		7.0	0.43	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,2,4-Trimethylbenzene	ND		7.0	1.3	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,2-Dibromo-3-Chloropropane	ND		7.0	3.5	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,2-Dichlorobenzene	ND		7.0	0.55	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,2-Dichloroethane	ND		7.0	0.35	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,2-Dichloropropane	ND		7.0	3.5	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,3,5-Trimethylbenzene	ND		7.0	0.45	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,3-Dichlorobenzene	ND		7.0	0.36	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,4-Dichlorobenzene	ND		7.0	0.98	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
2-Butanone (MEK)	**5.4**	**J**	35	2.6	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
2-Hexanone	ND		35	3.5	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
4-Isopropyltoluene	ND		7.0	0.56	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
4-Methyl-2-pentanone (MIBK)	ND		35	2.3	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Acetone	**28**	**J**	35	5.9	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Benzene	ND		7.0	0.34	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Bromoform	ND		7.0	3.5	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Bromomethane	ND		7.0	0.63	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Carbon disulfide	ND		7.0	3.5	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Carbon tetrachloride	ND		7.0	0.68	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Chlorobenzene	ND		7.0	0.92	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Dibromochloromethane	ND		7.0	0.90	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Chloroethane	ND		7.0	1.6	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Chloroform	**0.46**	**J B**	7.0	0.43	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Chloromethane	ND		7.0	0.42	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
cis-1,2-Dichloroethene	ND		7.0	0.90	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Cyclohexane	ND	*+	7.0	0.98	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Bromodichloromethane	ND		7.0	0.94	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Dichlorodifluoromethane	ND		7.0	0.58	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Ethylbenzene	ND		7.0	0.48	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
1,2-Dibromoethane	ND		7.0	0.90	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Isopropylbenzene	ND		7.0	1.1	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Methyl acetate	ND		35	4.2	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Methyl tert-butyl ether	ND		7.0	0.69	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Methylcyclohexane	ND		7.0	1.1	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Methylene Chloride	ND		7.0	3.2	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
m,p-Xylene	ND		14	1.2	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Naphthalene	ND		7.0	0.94	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
n-Butylbenzene	ND		7.0	0.61	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
N-Propylbenzene	ND		7.0	0.56	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
o-Xylene	ND		7.0	0.91	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
sec-Butylbenzene	ND		7.0	0.61	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Tetrachloroethene	ND		7.0	0.94	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Toluene	ND		7.0	0.53	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1

Client Sample ID: MW-5 2.5-4FT
Lab Sample ID: 480-227384-6
Date Collected: 02/14/25 14:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 64.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		7.0	0.72	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
trans-1,3-Dichloropropene	ND		7.0	3.1	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Trichloroethene	ND		7.0	1.5	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Trichlorofluoromethane	ND		7.0	0.66	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Vinyl chloride	ND		7.0	0.85	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Xylenes, Total	ND		14	1.2	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
cis-1,3-Dichloropropene	ND		7.0	1.0	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
Styrene	ND		7.0	0.35	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1
tert-Butylbenzene	ND		7.0	0.73	ug/Kg	☼	02/14/25 17:44	02/17/25 23:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/14/25 17:44*	*02/17/25 23:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*64 - 126*	*02/14/25 17:44*	*02/17/25 23:35*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*	*02/14/25 17:44*	*02/17/25 23:35*	*1*
Toluene-d8 (Surr)	*94*		*71 - 125*	*02/14/25 17:44*	*02/17/25 23:35*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*02/14/25 17:44*	*02/17/25 23:35*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1300	190	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
bis (2-chloroisopropyl) ether	ND		1300	260	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2,4,5-Trichlorophenol	ND		1300	350	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2,4,6-Trichlorophenol	ND		1300	260	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2,4-Dichlorophenol	ND		1300	140	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2,4-Dimethylphenol	ND		1300	310	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2,4-Dinitrophenol	ND		12000	5900	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2,4-Dinitrotoluene	ND		1300	260	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2,6-Dinitrotoluene	ND		1300	150	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2-Chloronaphthalene	ND		1300	210	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
1,4-Dioxane	ND		750	410	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2-Chlorophenol	ND		2500	230	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2-Methylnaphthalene	ND		1300	260	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2-Methylphenol	ND		1300	150	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2-Nitroaniline	ND		2500	190	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
2-Nitrophenol	ND		1300	360	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
3,3'-Dichlorobenzidine	ND		2500	1500	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
3-Nitroaniline	ND		2500	350	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
4,6-Dinitro-2-methylphenol	ND		2500	1300	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
4-Bromophenyl phenyl ether	ND		1300	180	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
4-Chloro-3-methylphenol	ND		1300	320	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
4-Chloroaniline	ND		1300	320	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
4-Chlorophenyl phenyl ether	ND		1300	160	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
4-Methylphenol	ND		2500	150	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
4-Nitroaniline	ND		2500	670	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
4-Nitrophenol	ND		2500	890	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Acenaphthene	ND		1300	190	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Acenaphthylene	ND		1300	170	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Acetophenone	ND		1300	170	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5

Client Sample ID: MW-5 2.5-4FT
Lab Sample ID: 480-227384-6
Date Collected: 02/14/25 14:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 64.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		1300	320	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Atrazine	ND		1300	440	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Benzaldehyde	ND		1300	1000	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Benzo[a]anthracene	**610**	**J**	1300	130	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Benzo[a]pyrene	**530**	**J**	1300	190	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Benzo[b]fluoranthene	**690**	**J**	1300	200	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Benzo[g,h,i]perylene	**290**	**J**	1300	140	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Benzo[k]fluoranthene	**340**	**J**	1300	170	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Bis(2-chloroethoxy)methane	ND		1300	270	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Bis(2-chloroethyl)ether	ND		1300	170	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Bis(2-ethylhexyl) phthalate	ND		1300	440	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Butyl benzyl phthalate	ND		1300	210	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Caprolactam	ND		1300	380	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Carbazole	ND		1300	150	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Chrysene	**670**	**J**	1300	290	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Di-n-butyl phthalate	ND		1300	220	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Di-n-octyl phthalate	ND		1300	150	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Dibenz(a,h)anthracene	ND		1300	230	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Dibenzofuran	ND		1300	150	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Diethyl phthalate	ND		1300	170	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Dimethyl phthalate	ND		1300	150	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Fluoranthene	**1500**		1300	140	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Fluorene	ND		1300	150	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Hexachlorobenzene	ND		1300	170	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Hexachlorobutadiene	ND		1300	190	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Hexachlorocyclopentadiene	ND		1300	170	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Hexachloroethane	ND		1300	170	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Indeno[1,2,3-cd]pyrene	**230**	**J**	1300	160	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Isophorone	ND		1300	270	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
N-Nitrosodi-n-propylamine	ND		1300	220	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
N-Nitrosodiphenylamine	ND		1300	1000	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Naphthalene	ND		1300	170	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Nitrobenzene	ND		1300	140	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Pentachlorophenol	ND		2500	1300	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Phenanthrene	**1400**		1300	190	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Phenol	ND		1300	200	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5
Pyrene	**1100**	**J**	1300	150	ug/Kg	☼	02/19/25 06:54	02/19/25 23:13	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Methane, bromochloro-	*1200*	*T J N*	*ug/Kg*	☼	*2.29*	*74-97-5*	*02/19/25 06:54*	*02/19/25 23:13*	*5*
Unknown	*3600*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/19/25 06:54*	*02/19/25 23:13*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*26 - 143*	*02/19/25 06:54*	*02/19/25 23:13*	*5*
2-Fluorobiphenyl	*86*		*50 - 121*	*02/19/25 06:54*	*02/19/25 23:13*	*5*
2-Fluorophenol	*74*		*36 - 120*	*02/19/25 06:54*	*02/19/25 23:13*	*5*
Nitrobenzene-d5	*70*		*40 - 121*	*02/19/25 06:54*	*02/19/25 23:13*	*5*
p-Terphenyl-d14	*85*		*46 - 143*	*02/19/25 06:54*	*02/19/25 23:13*	*5*
Phenol-d5	*77*		*41 - 120*	*02/19/25 06:54*	*02/19/25 23:13*	*5*

Client Sample ID: MW-5 2.5-4FT
Date Collected: 02/14/25 14:30
Date Received: 02/14/25 15:40

Lab Sample ID: 480-227384-6
Matrix: Solid
Percent Solids: 64.7

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.6	0.50	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
4,4'-DDE	ND		2.6	0.54	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
4,4'-DDT	ND		2.6	0.60	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Aldrin	ND		2.6	0.63	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
alpha-BHC	ND		2.6	0.46	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
cis-Chlordane	ND		2.6	1.3	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
beta-BHC	ND		2.6	0.46	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
delta-BHC	ND		2.6	0.48	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Dieldrin	ND		2.6	0.61	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Endosulfan I	ND		2.6	0.49	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Endosulfan II	ND		2.6	0.46	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Endosulfan sulfate	ND		2.6	0.48	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Endrin	ND		2.6	0.51	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Endrin aldehyde	ND		2.6	0.65	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Endrin ketone	ND		2.6	0.63	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
gamma-BHC (Lindane)	ND		2.6	0.47	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
trans-Chlordane	ND		2.6	0.81	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Heptachlor	ND		2.6	0.55	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Heptachlor epoxide	ND		2.6	0.66	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Methoxychlor	ND		2.6	0.52	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1
Toxaphene	ND		26	15	ug/Kg	☼	02/21/25 08:39	02/24/25 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*45 - 120*	*02/21/25 08:39*	*02/24/25 17:17*	*1*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*02/21/25 08:39*	*02/24/25 17:17*	*1*
Tetrachloro-m-xylene	*63*		*30 - 124*	*02/21/25 08:39*	*02/24/25 17:17*	*1*
Tetrachloro-m-xylene	*67*		*30 - 124*	*02/21/25 08:39*	*02/24/25 17:17*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.058	mg/Kg	☼	02/18/25 15:30	02/19/25 18:13	1
PCB-1221	ND		0.30	0.058	mg/Kg	☼	02/18/25 15:30	02/19/25 18:13	1
PCB-1232	ND		0.30	0.058	mg/Kg	☼	02/18/25 15:30	02/19/25 18:13	1
PCB-1242	ND		0.30	0.058	mg/Kg	☼	02/18/25 15:30	02/19/25 18:13	1
PCB-1248	ND		0.30	0.058	mg/Kg	☼	02/18/25 15:30	02/19/25 18:13	1
PCB-1254	ND		0.30	0.14	mg/Kg	☼	02/18/25 15:30	02/19/25 18:13	1
PCB-1260	ND		0.30	0.14	mg/Kg	☼	02/18/25 15:30	02/19/25 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*60 - 154*	*02/18/25 15:30*	*02/19/25 18:13*	*1*
Tetrachloro-m-xylene	*90*		*60 - 154*	*02/18/25 15:30*	*02/19/25 18:13*	*1*
DCB Decachlorobiphenyl	*111*		*65 - 174*	*02/18/25 15:30*	*02/19/25 18:13*	*1*
DCB Decachlorobiphenyl	*93*		*65 - 174*	*02/18/25 15:30*	*02/19/25 18:13*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		26	8.2	ug/Kg	☼	02/19/25 09:29	02/24/25 19:52	1
Silvex (2,4,5-TP)	ND		26	9.2	ug/Kg	☼	02/19/25 09:29	02/24/25 19:52	1
2,4-D	ND		26	16	ug/Kg	☼	02/19/25 09:29	02/24/25 19:52	1
Dichlorprop	ND		26	13	ug/Kg	☼	02/19/25 09:29	02/24/25 19:52	1

Client Sample ID: MW-5 2.5-4FT
Lab Sample ID: 480-227384-6

Date Collected: 02/14/25 14:30
Matrix: Solid

Date Received: 02/14/25 15:40
Percent Solids: 64.7

Method: SW846 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		26	8.4	ug/Kg	☼	02/19/25 09:29	02/24/25 19:52	1
Picloram	ND		26	11	ug/Kg	☼	02/19/25 09:29	02/24/25 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*02/19/25 09:29*	*02/24/25 19:52*	*1*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*02/19/25 09:29*	*02/24/25 19:52*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.79	0.20	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluoropentanoic acid (PFPeA)	ND		0.40	0.099	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorooctanoic acid (PFOA)	**0.062**	**J**	0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorooctanesulfonic acid (PFOS)	**0.11**	**J**	0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.79	0.20	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.79	0.20	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.79	0.20	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		2.0	0.50	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		2.0	0.50	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.79	0.20	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.79	0.20	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1

Client Sample ID: MW-5 2.5-4FT
Lab Sample ID: 480-227384-6
Date Collected: 02/14/25 14:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 64.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.40	0.099	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.40	0.099	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.79	0.20	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.79	0.20	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.40	0.099	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.99	0.25	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		5.0	1.2	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		5.0	1.2	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.40	0.099	ug/Kg	☼	02/20/25 15:27	02/21/25 17:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94.5*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C5 PFPeA	*101*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C5 PFHxA	*92.1*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C4 PFHpA	*95.5*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C8 PFOA	*85.4*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C9 PFNA	*94.5*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C6 PFDA	*93.4*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C7 PFUnA	*95.7*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C2 PFTeDA	*96.2*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C3 PFBS	*83.8*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C3 PFHxS	*87.4*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C8 PFOS	*93.8*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C8 PFOSA	*104*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
d3-NMeFOSAA	*90.1*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
d5-NEtFOSAA	*90.5*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
M2-4:2 FTS	*77.7*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
M2-6:2 FTS	*80.6*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
M2-8:2 FTS	*78.8*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C3 HFPO-DA	*101*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
d7-N-MeFOSE-M	*90.3*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
d9-N-EtFOSE-M	*87.2*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
d5-NEtPFOSA	*87.9*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
D3-NMeFOSA	*92.3*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*
13C2-PFDoDA	*94.2*		*20 - 150*	*02/20/25 15:27*	*02/21/25 17:36*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13400**		16.3	14.1	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Antimony	ND		24.5	0.86	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Arsenic	**10.1**		3.3	1.4	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Barium	**135**		0.82	0.23	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Beryllium	**0.61**		0.33	0.065	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1

Client Sample ID: MW-5 2.5-4FT
Lab Sample ID: 480-227384-6
Date Collected: 02/14/25 14:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 64.7

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.29	J	0.33	0.11	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Calcium	66100		81.5	44.0	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Chromium	17.7		0.82	0.59	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Cobalt	5.0		0.82	0.16	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Copper	40.8		1.6	0.93	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Iron	21100		16.3	13.8	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Lead	448		1.6	0.75	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Magnesium	7370		32.6	13.8	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Manganese	279		1.6	0.46	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Nickel	11.7		8.2	0.41	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Potassium	2380		48.9	39.5	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Selenium	ND		6.5	1.3	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Silver	0.45	J	0.98	0.33	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Sodium	1360		228	100	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Thallium	ND		9.8	1.2	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Vanadium	33.4		0.82	0.21	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1
Zinc	127		3.3	1.7	mg/Kg	☼	02/15/25 15:47	02/17/25 20:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.96		0.030	0.0069	mg/Kg	☼	02/19/25 09:48	02/19/25 13:50	1

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-227384-6	MW-5 2.5-4FT	110	98	94	104
LCS 480-739071/1-A	Lab Control Sample	100	99	91	104
MB 480-739071/3-A	Method Blank	103	102	91	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(46-143)	(41-120)
480-227384-1	MW-6 4-5FT	87	80	63	68	84	74
480-227384-2	SS-5	80	90	75	81	96	85
480-227384-3	SS-6	91	91	81	84	104	91
480-227384-4	RISB-8 0.5-4FT	80	84	73	70	88	79
480-227384-5	RISB-9 2-4FT	76	85	71	71	89	76
480-227384-6	MW-5 2.5-4FT	73	86	74	70	85	77
LCS 480-739229/2-A	Lab Control Sample	104	97	81	90	103	92
MB 480-739229/1-A	Method Blank	81	91	75	81	97	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-227384-1	MW-6 4-5FT	273 S1+	2160 S1+	0 S1-	0 S1-
480-227384-2	SS-5	83	97	84	87
480-227384-3	SS-6	83	104	92	92
480-227384-4	RISB-8 0.5-4FT	0 S1-	0 S1-	0 S1-	0 S1-
480-227384-5	RISB-9 2-4FT	169 S1+	813 S1+	67	78
480-227384-6	MW-5 2.5-4FT	71	87	63	67
LCS 480-739397/2-A	Lab Control Sample	95	103	82	83
MB 480-739397/1-A	Method Blank	99	104	78	85

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-227384-3	SS-6	106	94	113	136
480-227384-3 MS	SS-6	118	112	137	177 S1+
480-227384-3 MSD	SS-6	125	110	138	168
480-227384-6	MW-5 2.5-4FT	90	80	93	111
LCS 480-739219/2-A	Lab Control Sample	145	121	149	180 S1+
MB 480-739219/1-A	Method Blank	135	112	135	167

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(28-129)	(28-129)
480-227384-3	SS-6	62	66
480-227384-6	MW-5 2.5-4FT	73	70
LCS 480-739257/2-A	Lab Control Sample	76	77
MB 480-739257/1-A	Method Blank	66	73

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
480-227384-3	SS-6	88.9	96.6	88.2	90.2	82.0	89.5	88.7	84.6
480-227384-6	MW-5 2.5-4FT	94.5	101	92.1	95.5	85.4	94.5	93.4	95.7
LCS 240-645605/3-A	Lab Control Sample	97.1	101	95.4	97.4	95.4	93.8	96.9	94.2
LLCS 240-645605/2-A	Lab Control Sample	96.2	104	96.0	99.8	90.4	94.0	93.3	90.6
MB 240-645605/1-A	Method Blank	99.2	103	95.4	99.9	94.7	102	95.2	91.8

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)
480-227384-3	SS-6	72.5	79.1	79.0	87.7	90.9	74.1	81.4	76.1
480-227384-6	MW-5 2.5-4FT	96.2	83.8	87.4	93.8	104	90.1	90.5	77.7
LCS 240-645605/3-A	Lab Control Sample	137	94.5	95.6	107	104	92.3	94.6	90.8
LLCS 240-645605/2-A	Lab Control Sample	88.0	95.4	93.2	102	101	86.4	84.4	85.3
MB 240-645605/1-A	Method Blank	89.6	94.6	96.3	105	106	95.2	100	98.0

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)	PFDoDA (20-150)
480-227384-3	SS-6	71.4	73.5	95.8	64.3	58.7	72.1	76.8	83.6
480-227384-6	MW-5 2.5-4FT	80.6	78.8	101	90.3	87.2	87.9	92.3	94.2
LCS 240-645605/3-A	Lab Control Sample	95.1	86.4	98.2	92.9	88.2	89.7	97.8	93.8
LLCS 240-645605/2-A	Lab Control Sample	92.6	81.8	104	62.7	58.2	78.5	85.9	89.1
MB 240-645605/1-A	Method Blank	99.5	92.2	103	73.8	64.4	81.6	89.2	88.1

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = D3-NMeFOSA
PFDoDA = 13C2-PFDoDA

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-739071/3-A
Matrix: Solid
Analysis Batch: 739146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
2-Hexanone	ND		25	2.5	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Acetone	ND		25	4.2	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Benzene	ND		5.0	0.25	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Bromoform	ND		5.0	2.5	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Bromomethane	ND		5.0	0.45	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Chloroethane	ND		5.0	1.1	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Chloroform	0.397	J	5.0	0.31	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Chloromethane	ND		5.0	0.30	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Cyclohexane	ND		5.0	0.70	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Methyl acetate	ND		25	3.0	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
m,p-Xylene	ND		10	0.84	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Naphthalene	ND		5.0	0.67	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
o-Xylene	ND		5.0	0.65	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		02/14/25 17:44	02/17/25 22:47	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-739071/3-A
Matrix: Solid
Analysis Batch: 739146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0	0.38	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Trichloroethene	ND		5.0	1.1	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Xylenes, Total	ND		10	0.84	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
Styrene	ND		5.0	0.25	ug/Kg		02/14/25 17:44	02/17/25 22:47	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		02/14/25 17:44	02/17/25 22:47	1

Tentatively Identified Compound	*Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*	*02/14/25 17:44*	*02/17/25 22:47*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*02/14/25 17:44*	*02/17/25 22:47*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*02/14/25 17:44*	*02/17/25 22:47*	*1*
Toluene-d8 (Surr)	*91*		*71 - 125*	*02/14/25 17:44*	*02/17/25 22:47*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*	*02/14/25 17:44*	*02/17/25 22:47*	*1*

Lab Sample ID: LCS 480-739071/1-A
Matrix: Solid
Analysis Batch: 739146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	49.7	58.5		ug/Kg		118	77 - 121
1,1,2,2-Tetrachloroethane	49.7	43.0		ug/Kg		87	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	49.7	57.7		ug/Kg		116	60 - 140
1,1,2-Trichloroethane	49.7	45.0		ug/Kg		91	78 - 122
1,1-Dichloroethane	49.7	58.9		ug/Kg		118	73 - 126
1,1-Dichloroethene	49.7	57.5		ug/Kg		116	59 - 125
1,2,4-Trichlorobenzene	49.7	41.8		ug/Kg		84	64 - 120
1,2,4-Trimethylbenzene	49.7	46.2		ug/Kg		93	74 - 120
1,2-Dibromo-3-Chloropropane	49.7	45.3		ug/Kg		91	63 - 124
1,2-Dichlorobenzene	49.7	42.1		ug/Kg		85	75 - 120
1,2-Dichloroethane	49.7	55.7		ug/Kg		112	77 - 122
1,2-Dichloropropane	49.7	56.9		ug/Kg		114	75 - 124
1,3,5-Trimethylbenzene	49.7	46.6		ug/Kg		94	74 - 120
1,3-Dichlorobenzene	49.7	42.6		ug/Kg		86	74 - 120
1,4-Dichlorobenzene	49.7	41.9		ug/Kg		84	73 - 120
2-Butanone (MEK)	249	308		ug/Kg		124	70 - 134
2-Hexanone	249	273		ug/Kg		110	59 - 130
4-Isopropyltoluene	49.7	46.5		ug/Kg		94	74 - 120
4-Methyl-2-pentanone (MIBK)	249	269		ug/Kg		108	65 - 133
Acetone	249	312		ug/Kg		126	61 - 137
Benzene	49.7	56.3		ug/Kg		113	79 - 127
Bromoform	49.7	43.8		ug/Kg		88	68 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-739071/1-A
Matrix: Solid
Analysis Batch: 739146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	49.7	55.4		ug/Kg		111	37 - 149
Carbon disulfide	49.7	55.2		ug/Kg		111	64 - 131
Carbon tetrachloride	49.7	58.9		ug/Kg		119	75 - 135
Chlorobenzene	49.7	44.2		ug/Kg		89	76 - 124
Dibromochloromethane	49.7	45.7		ug/Kg		92	76 - 125
Chloroethane	49.7	59.5		ug/Kg		120	69 - 135
Chloroform	49.7	55.3	B	ug/Kg		111	80 - 120
Chloromethane	49.7	59.9		ug/Kg		120	63 - 127
cis-1,2-Dichloroethene	49.7	54.0		ug/Kg		109	81 - 120
Cyclohexane	49.7	65.1	*+	ug/Kg		131	65 - 120
Bromodichloromethane	49.7	55.2		ug/Kg		111	80 - 122
Dichlorodifluoromethane	49.7	50.5		ug/Kg		102	57 - 142
Ethylbenzene	49.7	47.3		ug/Kg		95	80 - 120
1,2-Dibromoethane	49.7	44.1		ug/Kg		89	78 - 120
Isopropylbenzene	49.7	48.2		ug/Kg		97	72 - 120
Methyl acetate	99.4	116		ug/Kg		117	55 - 136
Methyl tert-butyl ether	49.7	53.3		ug/Kg		107	63 - 125
Methylcyclohexane	49.7	61.0		ug/Kg		123	60 - 140
Methylene Chloride	49.7	56.2		ug/Kg		113	61 - 127
m,p-Xylene	49.7	45.8		ug/Kg		92	70 - 130
Naphthalene	49.7	43.4		ug/Kg		87	38 - 137
n-Butylbenzene	49.7	47.9		ug/Kg		96	70 - 120
N-Propylbenzene	49.7	47.4		ug/Kg		95	70 - 130
o-Xylene	49.7	45.5		ug/Kg		91	70 - 130
sec-Butylbenzene	49.7	47.8		ug/Kg		96	74 - 120
Tetrachloroethene	49.7	47.4		ug/Kg		95	74 - 122
Toluene	49.7	46.7		ug/Kg		94	74 - 128
trans-1,2-Dichloroethene	49.7	57.1		ug/Kg		115	78 - 126
trans-1,3-Dichloropropene	49.7	46.1		ug/Kg		93	73 - 123
Trichloroethene	49.7	57.6		ug/Kg		116	77 - 129
Trichlorofluoromethane	49.7	64.0		ug/Kg		129	65 - 146
Vinyl chloride	49.7	60.2		ug/Kg		121	61 - 133
cis-1,3-Dichloropropene	49.7	53.3		ug/Kg		107	80 - 120
Styrene	49.7	45.0		ug/Kg		91	80 - 120
tert-Butylbenzene	49.7	47.0		ug/Kg		95	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*
Toluene-d8 (Surr)	*91*		*71 - 125*
Dibromofluoromethane (Surr)	*104*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-739229/1-A
Matrix: Solid
Analysis Batch: 739297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2-Chloronaphthalene	ND		170	28	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
1,4-Dioxane	ND		100	55	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2-Chlorophenol	ND		330	31	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2-Methylnaphthalene	ND		170	34	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2-Methylphenol	ND		170	20	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2-Nitroaniline	ND		330	25	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
2-Nitrophenol	ND		170	48	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
3-Nitroaniline	ND		330	47	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
4-Chloroaniline	ND		170	42	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
4-Methylphenol	ND		330	20	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
4-Nitroaniline	ND		330	89	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
4-Nitrophenol	ND		330	120	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Acenaphthene	ND		170	25	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Acenaphthylene	ND		170	22	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Acetophenone	ND		170	23	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Anthracene	ND		170	42	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Atrazine	ND		170	59	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Benzaldehyde	ND		170	140	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Benzo[a]anthracene	ND		170	17	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Benzo[a]pyrene	ND		170	25	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Caprolactam	ND		170	51	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Carbazole	ND		170	20	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Chrysene	ND		170	38	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Dibenzofuran	ND		170	20	ug/Kg		02/19/25 06:54	02/19/25 17:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-739229/1-A
Matrix: Solid
Analysis Batch: 739297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		170	22	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Dimethyl phthalate	ND		170	20	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Fluoranthene	ND		170	18	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Fluorene	ND		170	20	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Hexachlorobenzene	ND		170	23	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Hexachlorobutadiene	ND		170	25	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Hexachloroethane	ND		170	22	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Isophorone	ND		170	36	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Naphthalene	ND		170	22	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Nitrobenzene	ND		170	19	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Pentachlorophenol	ND		330	170	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Phenanthrene	ND		170	25	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Phenol	ND		170	26	ug/Kg		02/19/25 06:54	02/19/25 17:34	1
Pyrene	ND		170	20	ug/Kg		02/19/25 06:54	02/19/25 17:34	1

Tentatively Identified Compound	*Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1670*	*T J*	*ug/Kg*		*2.00*	*N/A*	*02/19/25 06:54*	*02/19/25 17:34*	*1*
Unknown	*1490*	*T J*	*ug/Kg*		*3.46*	*N/A*	*02/19/25 06:54*	*02/19/25 17:34*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*26 - 143*	*02/19/25 06:54*	*02/19/25 17:34*	*1*
2-Fluorobiphenyl	*91*		*50 - 121*	*02/19/25 06:54*	*02/19/25 17:34*	*1*
2-Fluorophenol	*75*		*36 - 120*	*02/19/25 06:54*	*02/19/25 17:34*	*1*
Nitrobenzene-d5	*81*		*40 - 121*	*02/19/25 06:54*	*02/19/25 17:34*	*1*
p-Terphenyl-d14	*97*		*46 - 143*	*02/19/25 06:54*	*02/19/25 17:34*	*1*
Phenol-d5	*84*		*41 - 120*	*02/19/25 06:54*	*02/19/25 17:34*	*1*

Lab Sample ID: LCS 480-739229/2-A
Matrix: Solid
Analysis Batch: 739297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	1330	1260		ug/Kg		95	59 - 120
bis (2-chloroisopropyl) ether	1330	1260		ug/Kg		94	44 - 120
2,4,5-Trichlorophenol	1330	1350		ug/Kg		101	59 - 126
2,4,6-Trichlorophenol	1330	1320		ug/Kg		99	59 - 123
2,4-Dichlorophenol	1330	1340		ug/Kg		101	61 - 120
2,4-Dimethylphenol	1330	1310		ug/Kg		98	59 - 120
2,4-Dinitrophenol	2670	3070		ug/Kg		115	41 - 146
2,4-Dinitrotoluene	1330	1350		ug/Kg		101	63 - 120
2,6-Dinitrotoluene	1330	1390		ug/Kg		104	66 - 120
2-Chloronaphthalene	1330	1260		ug/Kg		95	57 - 120
1,4-Dioxane	1330	644		ug/Kg		48	23 - 120
2-Chlorophenol	1330	1180		ug/Kg		88	53 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-739229/2-A
Matrix: Solid
Analysis Batch: 739297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1330	1290		ug/Kg		97	59 - 120
2-Methylphenol	1330	1230		ug/Kg		92	54 - 120
2-Nitroaniline	1330	1280		ug/Kg		96	61 - 120
2-Nitrophenol	1330	1200		ug/Kg		90	56 - 120
3,3'-Dichlorobenzidine	1330	993		ug/Kg		74	54 - 120
3-Nitroaniline	1330	765		ug/Kg		57	48 - 120
4,6-Dinitro-2-methylphenol	2670	2670		ug/Kg		100	49 - 122
4-Bromophenyl phenyl ether	1330	1390		ug/Kg		104	58 - 120
4-Chloro-3-methylphenol	1330	1380		ug/Kg		104	61 - 120
4-Chloroaniline	1330	504		ug/Kg		38	38 - 120
4-Chlorophenyl phenyl ether	1330	1300		ug/Kg		97	63 - 124
4-Methylphenol	1330	1290		ug/Kg		97	55 - 120
4-Nitroaniline	1330	1250		ug/Kg		93	56 - 120
4-Nitrophenol	2670	2500		ug/Kg		94	43 - 147
Acenaphthene	1330	1310		ug/Kg		99	62 - 120
Acenaphthylene	1330	1380		ug/Kg		103	58 - 121
Acetophenone	1330	1210		ug/Kg		91	54 - 120
Anthracene	1330	1330		ug/Kg		100	62 - 120
Atrazine	1330	1330		ug/Kg		100	60 - 127
Benzaldehyde	1330	1160		ug/Kg		87	10 - 150
Benzo[a]anthracene	1330	1320		ug/Kg		99	65 - 120
Benzo[a]pyrene	1330	1410		ug/Kg		106	64 - 120
Benzo[b]fluoranthene	1330	1390		ug/Kg		104	64 - 120
Benzo[g,h,i]perylene	1330	1330		ug/Kg		100	45 - 145
Benzo[k]fluoranthene	1330	1490		ug/Kg		112	65 - 120
Bis(2-chloroethoxy)methane	1330	1280		ug/Kg		96	55 - 120
Bis(2-chloroethyl)ether	1330	1160		ug/Kg		87	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1290		ug/Kg		97	61 - 133
Butyl benzyl phthalate	1330	1330		ug/Kg		99	61 - 129
Caprolactam	1330	1340		ug/Kg		100	47 - 120
Carbazole	1330	1310		ug/Kg		98	65 - 120
Chrysene	1330	1350		ug/Kg		101	64 - 120
Di-n-butyl phthalate	1330	1300		ug/Kg		98	58 - 130
Di-n-octyl phthalate	1330	1280		ug/Kg		96	57 - 133
Dibenz(a,h)anthracene	1330	1380		ug/Kg		104	54 - 132
Dibenzofuran	1330	1290		ug/Kg		97	63 - 120
Diethyl phthalate	1330	1350		ug/Kg		101	66 - 120
Dimethyl phthalate	1330	1370		ug/Kg		103	65 - 124
Fluoranthene	1330	1340		ug/Kg		101	62 - 120
Fluorene	1330	1350		ug/Kg		101	63 - 120
Hexachlorobenzene	1330	1330		ug/Kg		100	60 - 120
Hexachlorobutadiene	1330	1160		ug/Kg		87	45 - 120
Hexachlorocyclopentadiene	1330	1160		ug/Kg		87	47 - 120
Hexachloroethane	1330	1050		ug/Kg		79	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1360		ug/Kg		102	56 - 134
Isophorone	1330	1290		ug/Kg		97	56 - 120
N-Nitrosodi-n-propylamine	1330	1260		ug/Kg		94	52 - 120
N-Nitrosodiphenylamine	1330	1340		ug/Kg		100	51 - 128
Naphthalene	1330	1200		ug/Kg		90	55 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-739229/2-A
Matrix: Solid
Analysis Batch: 739297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739229

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrobenzene			1330	1180		ug/Kg		89	54 - 120		
Pentachlorophenol			2670	2690		ug/Kg		101	10 - 120		
Phenanthrene			1330	1340		ug/Kg		101	60 - 120		
Phenol			1330	1180		ug/Kg		88	53 - 120		
Pyrene			1330	1400		ug/Kg		105	61 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*104*		*26 - 143*
2-Fluorobiphenyl	*97*		*50 - 121*
2-Fluorophenol	*81*		*36 - 120*
Nitrobenzene-d5	*90*		*40 - 121*
p-Terphenyl-d14	*103*		*46 - 143*
Phenol-d5	*92*		*41 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-739397/1-A
Matrix: Solid
Analysis Batch: 739473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
4,4'-DDT	ND		1.7	0.39	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Aldrin	ND		1.7	0.41	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
alpha-BHC	ND		1.7	0.30	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
cis-Chlordane	ND		1.7	0.83	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
beta-BHC	ND		1.7	0.30	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
delta-BHC	ND		1.7	0.31	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Dieldrin	ND		1.7	0.40	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endosulfan I	ND		1.7	0.32	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endosulfan II	ND		1.7	0.30	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endrin	ND		1.7	0.33	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endrin aldehyde	ND		1.7	0.43	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Endrin ketone	ND		1.7	0.41	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
gamma-BHC (Lindane)	ND		1.7	0.31	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
trans-Chlordane	ND		1.7	0.53	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Heptachlor	ND		1.7	0.36	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Methoxychlor	ND		1.7	0.34	ug/Kg		02/21/25 08:39	02/24/25 10:05	1
Toxaphene	ND		17	9.7	ug/Kg		02/21/25 08:39	02/24/25 10:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*45 - 120*	*02/21/25 08:39*	*02/24/25 10:05*	*1*
DCB Decachlorobiphenyl	*104*		*45 - 120*	*02/21/25 08:39*	*02/24/25 10:05*	*1*
Tetrachloro-m-xylene	*78*		*30 - 124*	*02/21/25 08:39*	*02/24/25 10:05*	*1*
Tetrachloro-m-xylene	*85*		*30 - 124*	*02/21/25 08:39*	*02/24/25 10:05*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-739397/2-A
Matrix: Solid
Analysis Batch: 739473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	17.4		ug/Kg		105	56 - 120
4,4'-DDE	16.7	14.2		ug/Kg		85	44 - 120
4,4'-DDT	16.7	15.8		ug/Kg		95	38 - 120
Aldrin	16.7	15.6		ug/Kg		94	38 - 120
alpha-BHC	16.7	13.0		ug/Kg		78	39 - 120
cis-Chlordane	16.7	14.5		ug/Kg		87	47 - 120
beta-BHC	16.7	16.6		ug/Kg		100	40 - 120
delta-BHC	16.7	15.7		ug/Kg		94	45 - 120
Dieldrin	16.7	17.7		ug/Kg		106	58 - 120
Endosulfan I	16.7	17.5		ug/Kg		105	49 - 120
Endosulfan II	16.7	18.0		ug/Kg		108	55 - 120
Endosulfan sulfate	16.7	16.7		ug/Kg		100	49 - 124
Endrin	16.7	17.6		ug/Kg		106	58 - 120
Endrin aldehyde	16.7	14.5		ug/Kg		87	37 - 121
Endrin ketone	16.7	16.6		ug/Kg		99	46 - 123
gamma-BHC (Lindane)	16.7	14.7		ug/Kg		88	50 - 120
trans-Chlordane	16.7	16.1		ug/Kg		97	48 - 120
Heptachlor	16.7	16.9		ug/Kg		102	50 - 120
Heptachlor epoxide	16.7	17.7		ug/Kg		106	50 - 120
Methoxychlor	16.7	16.9		ug/Kg		102	58 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*95*		*45 - 120*
DCB Decachlorobiphenyl	*103*		*45 - 120*
Tetrachloro-m-xylene	*82*		*30 - 124*
Tetrachloro-m-xylene	*83*		*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-739219/1-A
Matrix: Solid
Analysis Batch: 739230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg		02/18/25 15:30	02/19/25 16:41	1
PCB-1221	ND		0.25	0.049	mg/Kg		02/18/25 15:30	02/19/25 16:41	1
PCB-1232	ND		0.25	0.049	mg/Kg		02/18/25 15:30	02/19/25 16:41	1
PCB-1242	ND		0.25	0.049	mg/Kg		02/18/25 15:30	02/19/25 16:41	1
PCB-1248	ND		0.25	0.049	mg/Kg		02/18/25 15:30	02/19/25 16:41	1
PCB-1254	ND		0.25	0.12	mg/Kg		02/18/25 15:30	02/19/25 16:41	1
PCB-1260	ND		0.25	0.12	mg/Kg		02/18/25 15:30	02/19/25 16:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*112*		*60 - 154*	*02/18/25 15:30*	*02/19/25 16:41*	*1*
Tetrachloro-m-xylene	*135*		*60 - 154*	*02/18/25 15:30*	*02/19/25 16:41*	*1*
DCB Decachlorobiphenyl	*167*		*65 - 174*	*02/18/25 15:30*	*02/19/25 16:41*	*1*
DCB Decachlorobiphenyl	*135*		*65 - 174*	*02/18/25 15:30*	*02/19/25 16:41*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-739219/2-A
Matrix: Solid
Analysis Batch: 739230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739219

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			2.50	3.65		mg/Kg		146	51 - 185		
PCB-1260			2.50	3.72		mg/Kg		149	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*121*		*60 - 154*
Tetrachloro-m-xylene	*145*		*60 - 154*
DCB Decachlorobiphenyl	*180*	*S1+*	*65 - 174*
DCB Decachlorobiphenyl	*149*		*65 - 174*

Lab Sample ID: 480-227384-3 MS
Matrix: Solid
Analysis Batch: 739230

Client Sample ID: SS-6
Prep Type: Total/NA
Prep Batch: 739219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	ND		2.81	3.20		mg/Kg	☼	114	50 - 177		
PCB-1260	ND		2.81	3.39		mg/Kg	☼	121	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*112*		*60 - 154*
Tetrachloro-m-xylene	*118*		*60 - 154*
DCB Decachlorobiphenyl	*177*	*S1+*	*65 - 174*
DCB Decachlorobiphenyl	*137*		*65 - 174*

Lab Sample ID: 480-227384-3 MSD
Matrix: Solid
Analysis Batch: 739230

Client Sample ID: SS-6
Prep Type: Total/NA
Prep Batch: 739219

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		2.41	3.00		mg/Kg	☼	125	50 - 177	7	50
PCB-1260	ND		2.41	3.12		mg/Kg	☼	130	33 - 200	8	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*110*		*60 - 154*
Tetrachloro-m-xylene	*125*		*60 - 154*
DCB Decachlorobiphenyl	*168*		*65 - 174*
DCB Decachlorobiphenyl	*138*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-739257/1-A
Matrix: Solid
Analysis Batch: 739487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.3	ug/Kg		02/19/25 09:29	02/24/25 12:11	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg		02/19/25 09:29	02/24/25 12:11	1
2,4-D	ND		17	11	ug/Kg		02/19/25 09:29	02/24/25 12:11	1
Dichlorprop	ND		17	8.3	ug/Kg		02/19/25 09:29	02/24/25 12:11	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 480-739257/1-A
Matrix: Solid
Analysis Batch: 739487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		17	5.4	ug/Kg		02/19/25 09:29	02/24/25 12:11	1
Picloram	ND		17	7.2	ug/Kg		02/19/25 09:29	02/24/25 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*02/19/25 09:29*	*02/24/25 12:11*	*1*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*02/19/25 09:29*	*02/24/25 12:11*	*1*

Lab Sample ID: LCS 480-739257/2-A
Matrix: Solid
Analysis Batch: 739487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	66.7	48.2		ug/Kg		72	41 - 120
Silvex (2,4,5-TP)	66.7	50.2		ug/Kg		75	39 - 125
2,4-D	66.7	50.3		ug/Kg		75	40 - 120
Dichlorprop	66.7	52.8		ug/Kg		79	34 - 121
Pentachlorophenol	66.7	18.9		ug/Kg		28	10 - 120
Picloram	66.7	47.6		ug/Kg		71	22 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-645605/1-A
Matrix: Solid
Analysis Batch: 645730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.13	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluoropentanoic acid (PFPeA)	ND		0.25	0.063	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorohexanoic acid (PFHxA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluoroheptanoic acid (PFHpA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorooctanoic acid (PFOA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorononanoic acid (PFNA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorodecanoic acid (PFDA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluoroundecanoic acid (PFUnA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorododecanoic acid (PFDoA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorononanesulfonic acid (PFNS)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-645605/1-A
Matrix: Solid
Analysis Batch: 645730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.50	0.13	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.50	0.13	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.50	0.13	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.3	0.31	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.3	0.31	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.50	0.13	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.50	0.13	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.25	0.063	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.25	0.063	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.50	0.13	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.50	0.13	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.25	0.063	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.63	0.16	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.1	0.78	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.1	0.78	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.13	0.031	ug/Kg		02/20/25 15:27	02/21/25 16:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.25	0.063	ug/Kg		02/20/25 15:27	02/21/25 16:29	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99.2*		*20 - 150*	*02/20/25 15:27*	*02/21/25 16:29*	*1*
13C5 PFPeA	*103*		*20 - 150*	*02/20/25 15:27*	*02/21/25 16:29*	*1*
13C5 PFHxA	*95.4*		*20 - 150*	*02/20/25 15:27*	*02/21/25 16:29*	*1*
13C4 PFHpA	*99.9*		*20 - 150*	*02/20/25 15:27*	*02/21/25 16:29*	*1*
13C8 PFOA	*94.7*		*20 - 150*	*02/20/25 15:27*	*02/21/25 16:29*	*1*
13C9 PFNA	*102*		*20 - 150*	*02/20/25 15:27*	*02/21/25 16:29*	*1*
13C6 PFDA	*95.2*		*20 - 150*	*02/20/25 15:27*	*02/21/25 16:29*	*1*
13C7 PFUnA	*91.8*		*20 - 150*	*02/20/25 15:27*	*02/21/25 16:29*	*1*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-645605/1-A
Matrix: Solid
Analysis Batch: 645730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645605

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	89.6		20 - 150	02/20/25 15:27	02/21/25 16:29	1
13C3 PFBS	94.6		20 - 150	02/20/25 15:27	02/21/25 16:29	1
13C3 PFHxS	96.3		20 - 150	02/20/25 15:27	02/21/25 16:29	1
13C8 PFOS	105		20 - 150	02/20/25 15:27	02/21/25 16:29	1
13C8 PFOSA	106		20 - 150	02/20/25 15:27	02/21/25 16:29	1
d3-NMeFOSAA	95.2		20 - 150	02/20/25 15:27	02/21/25 16:29	1
d5-NEtFOSAA	100		20 - 150	02/20/25 15:27	02/21/25 16:29	1
M2-4:2 FTS	98.0		20 - 150	02/20/25 15:27	02/21/25 16:29	1
M2-6:2 FTS	99.5		20 - 150	02/20/25 15:27	02/21/25 16:29	1
M2-8:2 FTS	92.2		20 - 150	02/20/25 15:27	02/21/25 16:29	1
13C3 HFPO-DA	103		20 - 150	02/20/25 15:27	02/21/25 16:29	1
d7-N-MeFOSE-M	73.8		20 - 150	02/20/25 15:27	02/21/25 16:29	1
d9-N-EtFOSE-M	64.4		20 - 150	02/20/25 15:27	02/21/25 16:29	1
d5-NEtPFOSA	81.6		20 - 150	02/20/25 15:27	02/21/25 16:29	1
D3-NMeFOSA	89.2		20 - 150	02/20/25 15:27	02/21/25 16:29	1
13C2-PFDoDA	88.1		20 - 150	02/20/25 15:27	02/21/25 16:29	1

Lab Sample ID: LCS 240-645605/3-A
Matrix: Solid
Analysis Batch: 645730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	6.25	6.77		ug/Kg		108	40 - 150
Perfluoropentanoic acid (PFPeA)	3.13	3.49		ug/Kg		112	40 - 150
Perfluorohexanoic acid (PFHxA)	1.56	1.71		ug/Kg		109	40 - 150
Perfluoroheptanoic acid (PFHpA)	1.56	1.71		ug/Kg		109	40 - 150
Perfluorooctanoic acid (PFOA)	1.56	1.65		ug/Kg		106	40 - 150
Perfluorononanoic acid (PFNA)	1.56	1.65		ug/Kg		106	40 - 150
Perfluorodecanoic acid (PFDA)	1.56	1.57		ug/Kg		100	40 - 150
Perfluoroundecanoic acid (PFUnA)	1.56	1.79		ug/Kg		114	40 - 150
Perfluorododecanoic acid (PFDoA)	1.56	1.66		ug/Kg		106	40 - 150
Perfluorotridecanoic acid (PFTrDA)	1.56	1.40		ug/Kg		89	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	1.56	1.16		ug/Kg		74	40 - 150
Perfluorobutanesulfonic acid (PFBS)	1.39	1.46		ug/Kg		105	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.47	1.62		ug/Kg		110	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.56		ug/Kg		110	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.49	1.51		ug/Kg		101	40 - 150
Perfluorooctanesulfonic acid (PFOS)	1.45	1.43		ug/Kg		98	40 - 150
Perfluorononanesulfonic acid (PFNS)	1.50	1.44		ug/Kg		96	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	1.52	1.50		ug/Kg		99	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-645605/3-A
Matrix: Solid
Analysis Batch: 645730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	5.86	6.04		ug/Kg		103	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.95	5.94		ug/Kg		100	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.00	6.42		ug/Kg		107	40 - 150
Perfluorooctanesulfonamide (PFOSA)	1.56	1.73		ug/Kg		111	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.56	1.61		ug/Kg		103	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.56	1.71		ug/Kg		109	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.56	1.64		ug/Kg		105	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.56	1.64		ug/Kg		105	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	15.6	15.1		ug/Kg		96	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	15.6	14.7		ug/Kg		94	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.25	7.17		ug/Kg		115	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.91	6.74		ug/Kg		114	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.13	3.44		ug/Kg		110	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.13	3.40		ug/Kg		109	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.84	6.30		ug/Kg		108	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	5.90	6.70		ug/Kg		114	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.79	3.08		ug/Kg		110	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.81	8.03		ug/Kg		103	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	39.1	38.4		ug/Kg		98	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	39.1	37.8		ug/Kg		97	40 - 150
Perfluorodecanesulfonic acid (PFDS)	1.51	1.50		ug/Kg		100	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.13	3.49		ug/Kg		112	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*97.1*		*20 - 150*
13C5 PFPeA	*101*		*20 - 150*
13C5 PFHxA	*95.4*		*20 - 150*
13C4 PFHpA	*97.4*		*20 - 150*
13C8 PFOA	*95.4*		*20 - 150*
13C9 PFNA	*93.8*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-645605/3-A
Matrix: Solid
Analysis Batch: 645730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645605

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C6 PFDA	96.9		20 - 150
13C7 PFUnA	94.2		20 - 150
13C2 PFTeDA	137		20 - 150
13C3 PFBS	94.5		20 - 150
13C3 PFHxS	95.6		20 - 150
13C8 PFOS	107		20 - 150
13C8 PFOSA	104		20 - 150
d3-NMeFOSAA	92.3		20 - 150
d5-NEtFOSAA	94.6		20 - 150
M2-4:2 FTS	90.8		20 - 150
M2-6:2 FTS	95.1		20 - 150
M2-8:2 FTS	86.4		20 - 150
13C3 HFPO-DA	98.2		20 - 150
d7-N-MeFOSE-M	92.9		20 - 150
d9-N-EtFOSE-M	88.2		20 - 150
d5-NEtPFOSA	89.7		20 - 150
D3-NMeFOSA	97.8		20 - 150
13C2-PFDoDA	93.8		20 - 150

Lab Sample ID: LLCS 240-645605/2-A
Matrix: Solid
Analysis Batch: 645730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645605

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.540		ug/Kg		108	40 - 150
Perfluoropentanoic acid (PFPeA)	0.250	0.270		ug/Kg		108	40 - 150
Perfluorohexanoic acid (PFHxA)	0.125	0.138		ug/Kg		110	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.125	0.136		ug/Kg		109	40 - 150
Perfluorooctanoic acid (PFOA)	0.125	0.144		ug/Kg		115	40 - 150
Perfluorononanoic acid (PFNA)	0.125	0.135		ug/Kg		108	40 - 150
Perfluorodecanoic acid (PFDA)	0.125	0.120	J	ug/Kg		96	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.125	0.136		ug/Kg		109	40 - 150
Perfluorododecanoic acid (PFDoA)	0.125	0.132		ug/Kg		106	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.125	0.125	J	ug/Kg		100	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.125	0.135		ug/Kg		108	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.111	0.108	J	ug/Kg		98	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.118	0.121	J	ug/Kg		103	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.114	0.130		ug/Kg		114	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.119	0.115	J	ug/Kg		96	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.116	0.120	J	ug/Kg		103	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.120	0.106	J	ug/Kg		88	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-645605/2-A
Matrix: Solid
Analysis Batch: 645730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645605

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanesulfonic acid (PFDoS)	0.121	0.106	J	ug/Kg		87	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.531		ug/Kg		113	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.485	J	ug/Kg		102	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.537		ug/Kg		112	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.125	0.131		ug/Kg		105	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.125	0.143		ug/Kg		114	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.125	0.145		ug/Kg		116	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.125	0.132		ug/Kg		106	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.125	0.129	J	ug/Kg		103	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.25	J	ug/Kg		100	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.16	J	ug/Kg		93	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.500	0.548		ug/Kg		110	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.473	0.519		ug/Kg		110	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.268		ug/Kg		107	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.259		ug/Kg		104	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.467	0.461	J	ug/Kg		99	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.472	0.472	J	ug/Kg		100	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.223	0.251		ug/Kg		112	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.625	0.611	J	ug/Kg		98	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	3.13	3.10		ug/Kg		99	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	3.13	2.99	J	ug/Kg		96	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.121	0.110	J	ug/Kg		91	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.276		ug/Kg		111	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*96.2*		*20 - 150*
13C5 PFPeA	*104*		*20 - 150*
13C5 PFHxA	*96.0*		*20 - 150*
13C4 PFHpA	*99.8*		*20 - 150*
13C8 PFOA	*90.4*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-645605/2-A
Matrix: Solid
Analysis Batch: 645730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645605

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C9 PFNA	94.0		20 - 150
13C6 PFDA	93.3		20 - 150
13C7 PFUnA	90.6		20 - 150
13C2 PFTeDA	88.0		20 - 150
13C3 PFBS	95.4		20 - 150
13C3 PFHxS	93.2		20 - 150
13C8 PFOS	102		20 - 150
13C8 PFOSA	101		20 - 150
d3-NMeFOSAA	86.4		20 - 150
d5-NEtFOSAA	84.4		20 - 150
M2-4:2 FTS	85.3		20 - 150
M2-6:2 FTS	92.6		20 - 150
M2-8:2 FTS	81.8		20 - 150
13C3 HFPO-DA	104		20 - 150
d7-N-MeFOSE-M	62.7		20 - 150
d9-N-EtFOSE-M	58.2		20 - 150
d5-NEtPFOSA	78.5		20 - 150
D3-NMeFOSA	85.9		20 - 150
13C2-PFDoDA	89.1		20 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-739093/1-A
Matrix: Solid
Analysis Batch: 739174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.5	9.1	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Antimony	ND		15.8	0.56	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Arsenic	ND		2.1	0.93	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Barium	ND		0.53	0.15	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Beryllium	ND		0.21	0.042	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Cadmium	ND		0.21	0.074	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Calcium	ND		52.7	28.4	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Chromium	ND		0.53	0.38	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Cobalt	ND		0.53	0.11	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Copper	ND		1.1	0.60	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Iron	ND		10.5	8.9	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Lead	ND		1.1	0.48	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Magnesium	ND		21.1	8.9	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Manganese	ND		1.1	0.30	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Nickel	ND		5.3	0.26	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Potassium	ND		31.6	25.5	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Selenium	ND		4.2	0.84	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Silver	ND		0.63	0.21	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Sodium	ND		148	64.6	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Thallium	ND		6.3	0.80	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Vanadium	ND		0.53	0.14	mg/Kg		02/15/25 15:47	02/17/25 19:50	1
Zinc	ND		2.1	1.1	mg/Kg		02/15/25 15:47	02/17/25 19:50	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-739093/2-A
Matrix: Solid
Analysis Batch: 739174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739093

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	8750		mg/Kg		113.9	47.4 - 130.2
Antimony	201	70.77		mg/Kg		35.2	0.06 - 100.0
Arsenic	181	140.2		mg/Kg		77.5	66.3 - 97.8
Barium	211	207.2		mg/Kg		98.2	73.9 - 107.1
Beryllium	270	242.0		mg/Kg		89.6	73.0 - 104.4
Cadmium	221	175.6		mg/Kg		79.5	70.6 - 101.8
Calcium	4280	4161		mg/Kg		97.2	77.3 - 111.0
Chromium	149	133.1		mg/Kg		89.3	71.8 - 105.4
Cobalt	142	144.4		mg/Kg		101.7	73.2 - 104.2
Copper	264	227.0		mg/Kg		86.0	73.5 - 104.2
Iron	7360	7310		mg/Kg		99.3	55.4 - 130.3
Lead	106	110.4		mg/Kg		104.2	76.1 - 109.4
Magnesium	2170	2119		mg/Kg		97.6	68.7 - 112.0
Manganese	270	244.6		mg/Kg		90.6	73.0 - 107.8
Nickel	117	179.1		mg/Kg		153.1	108.5 - 156.4
Potassium	2340	2387		mg/Kg		102.0	62.8 - 113.7
Selenium	139	110.6		mg/Kg		79.6	70.0 - 107.9
Silver	59.9	54.65		mg/Kg		91.2	72.8 - 110.7
Sodium	306	294.1		mg/Kg		96.1	66.0 - 113.4
Thallium	205	177.7		mg/Kg		86.7	71.7 - 106.8
Vanadium	155	143.6		mg/Kg		92.7	107.7 - 69.0
Zinc	398	354.8		mg/Kg		89.1	68.8 - 104.5

Lab Sample ID: 480-227384-5 MS
Matrix: Solid
Analysis Batch: 739174

Client Sample ID: RISB-9 2-4FT
Prep Type: Total/NA
Prep Batch: 739093

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10100		1150	19090	4	mg/Kg	☼	785	75 - 125
Antimony	ND	F1	113	77.62	F1	mg/Kg	☼	69	75 - 125
Arsenic	7.3		226	205.9		mg/Kg	☼	88	75 - 125
Barium	57.0		225	297.1		mg/Kg	☼	107	75 - 125
Beryllium	0.49		112	106.8		mg/Kg	☼	95	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-227384-5 MS
Matrix: Solid
Analysis Batch: 739174

Client Sample ID: RISB-9 2-4FT
Prep Type: Total/NA
Prep Batch: 739093

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.22		113	102.4		mg/Kg	☼	91	75 - 125
Calcium	24000		5620	30240	4	mg/Kg	☼	110	75 - 125
Chromium	12.8		112	126.8		mg/Kg	☼	101	75 - 125
Cobalt	7.1		113	121.2		mg/Kg	☼	101	75 - 125
Copper	31.0		113	146.5		mg/Kg	☼	103	75 - 125
Iron	18200		1150	20480	4	mg/Kg	☼	200	75 - 125
Lead	27.0		113	159.8		mg/Kg	☼	118	75 - 125
Magnesium	6290	F1	5630	12110		mg/Kg	☼	103	75 - 125
Manganese	368	F1 F2	112	571.6	F1	mg/Kg	☼	182	75 - 125
Nickel	21.0		113	139.0		mg/Kg	☼	105	75 - 125
Potassium	2120	F1	5620	10140	F1	mg/Kg	☼	143	75 - 125
Selenium	ND		225	184.2		mg/Kg	☼	82	75 - 125
Silver	ND		11.3	11.02		mg/Kg	☼	98	75 - 125
Sodium	104	J	5630	5575		mg/Kg	☼	97	75 - 125
Thallium	ND		225	226.9		mg/Kg	☼	101	75 - 125
Vanadium	17.3		113	134.9		mg/Kg	☼	104	75 - 125
Zinc	97.0		113	207.4		mg/Kg	☼	98	75 - 125

Lab Sample ID: 480-227384-5 MSD
Matrix: Solid
Analysis Batch: 739174

Client Sample ID: RISB-9 2-4FT
Prep Type: Total/NA
Prep Batch: 739093

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	10100		1110	17620	4	mg/Kg	☼	682	75 - 125	8	20
Antimony	ND	F1	108	77.77	F1	mg/Kg	☼	72	75 - 125	0	20
Arsenic	7.3		218	196.9		mg/Kg	☼	87	75 - 125	4	20
Barium	57.0		217	281.7		mg/Kg	☼	104	75 - 125	5	20
Beryllium	0.49		108	102.2		mg/Kg	☼	95	75 - 125	4	20
Cadmium	0.22		108	97.60		mg/Kg	☼	90	75 - 125	5	20
Calcium	24000		5410	33480	4	mg/Kg	☼	174	75 - 125	10	20
Chromium	12.8		108	120.1		mg/Kg	☼	99	75 - 125	5	20
Cobalt	7.1		108	116.1		mg/Kg	☼	101	75 - 125	4	20
Copper	31.0		108	138.5		mg/Kg	☼	99	75 - 125	6	20
Iron	18200		1110	19370	4	mg/Kg	☼	108	75 - 125	6	20
Lead	27.0		108	161.3		mg/Kg	☼	124	75 - 125	1	20
Magnesium	6290	F1	5420	14700	F1	mg/Kg	☼	155	75 - 125	19	20
Manganese	368	F1 F2	108	448.0	F1 F2	mg/Kg	☼	74	75 - 125	24	20
Nickel	21.0		109	133.0		mg/Kg	☼	103	75 - 125	4	20
Potassium	2120	F1	5410	9318	F1	mg/Kg	☼	133	75 - 125	8	20
Selenium	ND		217	177.3		mg/Kg	☼	82	75 - 125	4	20
Silver	ND		10.8	10.54		mg/Kg	☼	97	75 - 125	4	20
Sodium	104	J	5420	5334		mg/Kg	☼	97	75 - 125	4	20
Thallium	ND		217	217.4		mg/Kg	☼	100	75 - 125	4	20
Vanadium	17.3		109	128.5		mg/Kg	☼	102	75 - 125	5	20
Zinc	97.0		108	193.3		mg/Kg	☼	89	75 - 125	7	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-739240/1-A
Matrix: Solid
Analysis Batch: 739311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021	0.0047	mg/Kg		02/19/25 09:48	02/19/25 16:46	1

Lab Sample ID: LCSSRM 480-739240/2-A ^10
Matrix: Solid
Analysis Batch: 739311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739240

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	18.99		mg/Kg		79.1	55.8 - 109.6

GC/MS VOA

Prep Batch: 739071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	5035A_L	
MB 480-739071/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-739071/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 739146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	8260C	739071
MB 480-739071/3-A	Method Blank	Total/NA	Solid	8260C	739071
LCS 480-739071/1-A	Lab Control Sample	Total/NA	Solid	8260C	739071

GC/MS Semi VOA

Prep Batch: 739229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-1	MW-6 4-5FT	Total/NA	Solid	3550C	
480-227384-2	SS-5	Total/NA	Solid	3550C	
480-227384-3	SS-6	Total/NA	Solid	3550C	
480-227384-4	RISB-8 0.5-4FT	Total/NA	Solid	3550C	
480-227384-5	RISB-9 2-4FT	Total/NA	Solid	3550C	
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	3550C	
MB 480-739229/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739229/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 739297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-1	MW-6 4-5FT	Total/NA	Solid	8270D	739229
480-227384-2	SS-5	Total/NA	Solid	8270D	739229
480-227384-3	SS-6	Total/NA	Solid	8270D	739229
480-227384-4	RISB-8 0.5-4FT	Total/NA	Solid	8270D	739229
480-227384-5	RISB-9 2-4FT	Total/NA	Solid	8270D	739229
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	8270D	739229
MB 480-739229/1-A	Method Blank	Total/NA	Solid	8270D	739229
LCS 480-739229/2-A	Lab Control Sample	Total/NA	Solid	8270D	739229

GC Semi VOA

Prep Batch: 739219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-3	SS-6	Total/NA	Solid	3550C	
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	3550C	
MB 480-739219/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739219/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227384-3 MS	SS-6	Total/NA	Solid	3550C	
480-227384-3 MSD	SS-6	Total/NA	Solid	3550C	

Analysis Batch: 739230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-3	SS-6	Total/NA	Solid	8082A	739219
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	8082A	739219
MB 480-739219/1-A	Method Blank	Total/NA	Solid	8082A	739219
LCS 480-739219/2-A	Lab Control Sample	Total/NA	Solid	8082A	739219
480-227384-3 MS	SS-6	Total/NA	Solid	8082A	739219

GC Semi VOA (Continued)

Analysis Batch: 739230 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-3 MSD	SS-6	Total/NA	Solid	8082A	739219

Prep Batch: 739257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-3	SS-6	Total/NA	Solid	8151A	
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	8151A	
MB 480-739257/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-739257/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Prep Batch: 739397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-1	MW-6 4-5FT	Total/NA	Solid	3550C	
480-227384-2	SS-5	Total/NA	Solid	3550C	
480-227384-3	SS-6	Total/NA	Solid	3550C	
480-227384-4	RISB-8 0.5-4FT	Total/NA	Solid	3550C	
480-227384-5	RISB-9 2-4FT	Total/NA	Solid	3550C	
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	3550C	
MB 480-739397/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739397/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 739473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-1	MW-6 4-5FT	Total/NA	Solid	8081B	739397
480-227384-2	SS-5	Total/NA	Solid	8081B	739397
480-227384-3	SS-6	Total/NA	Solid	8081B	739397
480-227384-4	RISB-8 0.5-4FT	Total/NA	Solid	8081B	739397
480-227384-5	RISB-9 2-4FT	Total/NA	Solid	8081B	739397
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	8081B	739397
MB 480-739397/1-A	Method Blank	Total/NA	Solid	8081B	739397
LCS 480-739397/2-A	Lab Control Sample	Total/NA	Solid	8081B	739397

Analysis Batch: 739487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-3	SS-6	Total/NA	Solid	8151A	739257
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	8151A	739257
MB 480-739257/1-A	Method Blank	Total/NA	Solid	8151A	739257
LCS 480-739257/2-A	Lab Control Sample	Total/NA	Solid	8151A	739257

LCMS

Prep Batch: 645605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-3	SS-6	Total/NA	Solid	1633 Shake	
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	1633 Shake	
MB 240-645605/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-645605/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-645605/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 645730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-3	SS-6	Total/NA	Solid	1633	645605

LCMS (Continued)

Analysis Batch: 645730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	1633	645605
MB 240-645605/1-A	Method Blank	Total/NA	Solid	1633	645605
LCS 240-645605/3-A	Lab Control Sample	Total/NA	Solid	1633	645605
LLCS 240-645605/2-A	Lab Control Sample	Total/NA	Solid	1633	645605

Metals

Prep Batch: 739093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-1	MW-6 4-5FT	Total/NA	Solid	3050B	
480-227384-2	SS-5	Total/NA	Solid	3050B	
480-227384-3	SS-6	Total/NA	Solid	3050B	
480-227384-4	RISB-8 0.5-4FT	Total/NA	Solid	3050B	
480-227384-5	RISB-9 2-4FT	Total/NA	Solid	3050B	
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	3050B	
MB 480-739093/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-739093/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-227384-5 MS	RISB-9 2-4FT	Total/NA	Solid	3050B	
480-227384-5 MSD	RISB-9 2-4FT	Total/NA	Solid	3050B	

Analysis Batch: 739174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-1	MW-6 4-5FT	Total/NA	Solid	6010C	739093
480-227384-2	SS-5	Total/NA	Solid	6010C	739093
480-227384-3	SS-6	Total/NA	Solid	6010C	739093
480-227384-4	RISB-8 0.5-4FT	Total/NA	Solid	6010C	739093
480-227384-5	RISB-9 2-4FT	Total/NA	Solid	6010C	739093
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	6010C	739093
MB 480-739093/1-A	Method Blank	Total/NA	Solid	6010C	739093
LCSSRM 480-739093/2-A	Lab Control Sample	Total/NA	Solid	6010C	739093
480-227384-5 MS	RISB-9 2-4FT	Total/NA	Solid	6010C	739093
480-227384-5 MSD	RISB-9 2-4FT	Total/NA	Solid	6010C	739093

Prep Batch: 739240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-1	MW-6 4-5FT	Total/NA	Solid	7471B	
480-227384-2	SS-5	Total/NA	Solid	7471B	
480-227384-3	SS-6	Total/NA	Solid	7471B	
480-227384-4	RISB-8 0.5-4FT	Total/NA	Solid	7471B	
480-227384-5	RISB-9 2-4FT	Total/NA	Solid	7471B	
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	7471B	
MB 480-739240/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-739240/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 739294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-1	MW-6 4-5FT	Total/NA	Solid	7471B	739240
480-227384-2	SS-5	Total/NA	Solid	7471B	739240
480-227384-3	SS-6	Total/NA	Solid	7471B	739240
480-227384-4	RISB-8 0.5-4FT	Total/NA	Solid	7471B	739240
480-227384-5	RISB-9 2-4FT	Total/NA	Solid	7471B	739240

Metals (Continued)

Analysis Batch: 739294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	7471B	739240

Analysis Batch: 739311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-739240/1-A	Method Blank	Total/NA	Solid	7471B	739240
LCSSRM 480-739240/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	739240

General Chemistry

Analysis Batch: 739132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227384-1	MW-6 4-5FT	Total/NA	Solid	Moisture	
480-227384-2	SS-5	Total/NA	Solid	Moisture	
480-227384-3	SS-6	Total/NA	Solid	Moisture	
480-227384-4	RISB-8 0.5-4FT	Total/NA	Solid	Moisture	
480-227384-5	RISB-9 2-4FT	Total/NA	Solid	Moisture	
480-227384-6	MW-5 2.5-4FT	Total/NA	Solid	Moisture	

Client Sample ID: MW-6 4-5FT
Lab Sample ID: 480-227384-1
Date Collected: 02/14/25 10:00
Matrix: Solid
Date Received: 02/14/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739132	JLS	EET BUF	02/17/25 14:00

Client Sample ID: MW-6 4-5FT
Lab Sample ID: 480-227384-1
Date Collected: 02/14/25 10:00
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739229	DP	EET BUF	02/19/25 06:54
Total/NA	Analysis	8270D		20	739297	AF	EET BUF	02/19/25 21:03
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		20	739473	JLS	EET BUF	02/24/25 15:19
Total/NA	Prep	3050B			739093	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739174	BMB	EET BUF	02/17/25 20:02
Total/NA	Prep	7471B			739240	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 13:44

Client Sample ID: SS-5
Lab Sample ID: 480-227384-2
Date Collected: 02/14/25 12:15
Matrix: Solid
Date Received: 02/14/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739132	JLS	EET BUF	02/17/25 14:00

Client Sample ID: SS-5
Lab Sample ID: 480-227384-2
Date Collected: 02/14/25 12:15
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739229	DP	EET BUF	02/19/25 06:54
Total/NA	Analysis	8270D		1	739297	AF	EET BUF	02/19/25 21:29
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		1	739473	JLS	EET BUF	02/24/25 15:39
Total/NA	Prep	3050B			739093	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739174	BMB	EET BUF	02/17/25 20:03
Total/NA	Prep	7471B			739240	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 13:45

Client Sample ID: SS-6
Lab Sample ID: 480-227384-3
Date Collected: 02/14/25 13:30
Matrix: Solid
Date Received: 02/14/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739132	JLS	EET BUF	02/17/25 14:00

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Client Sample ID: SS-6
Lab Sample ID: 480-227384-3
Date Collected: 02/14/25 13:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739229	DP	EET BUF	02/19/25 06:54
Total/NA	Analysis	8270D		1	739297	AF	EET BUF	02/19/25 21:55
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		1	739473	JLS	EET BUF	02/24/25 15:58
Total/NA	Prep	3550C			739219	JMP	EET BUF	02/18/25 15:30
Total/NA	Analysis	8082A		1	739230	H9RU	EET BUF	02/19/25 17:55
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 19:34
Total/NA	Prep	1633 Shake			645605	CLB	EET CLE	02/20/25 15:27
Total/NA	Analysis	1633		1	645730	MRL	EET CLE	02/21/25 17:19
Total/NA	Prep	3050B			739093	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739174	BMB	EET BUF	02/17/25 20:11
Total/NA	Prep	7471B			739240	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 13:46

Client Sample ID: RISB-8 0.5-4FT
Lab Sample ID: 480-227384-4
Date Collected: 02/14/25 12:30
Matrix: Solid
Date Received: 02/14/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739132	JLS	EET BUF	02/17/25 14:00

Client Sample ID: RISB-8 0.5-4FT
Lab Sample ID: 480-227384-4
Date Collected: 02/14/25 12:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739229	DP	EET BUF	02/19/25 06:54
Total/NA	Analysis	8270D		5	739297	AF	EET BUF	02/19/25 22:21
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		20	739473	JLS	EET BUF	02/24/25 16:18
Total/NA	Prep	3050B			739093	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739174	BMB	EET BUF	02/17/25 20:13
Total/NA	Prep	7471B			739240	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 13:48

Client Sample ID: RISB-9 2-4FT
Lab Sample ID: 480-227384-5
Date Collected: 02/14/25 13:15
Matrix: Solid
Date Received: 02/14/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739132	JLS	EET BUF	02/17/25 14:00

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Client Sample ID: RISB-9 2-4FT
Lab Sample ID: 480-227384-5
Date Collected: 02/14/25 13:15
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739229	DP	EET BUF	02/19/25 06:54
Total/NA	Analysis	8270D		5	739297	AF	EET BUF	02/19/25 22:47
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		10	739473	JLS	EET BUF	02/24/25 16:57
Total/NA	Prep	3050B			739093	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739174	BMB	EET BUF	02/17/25 20:15
Total/NA	Prep	7471B			739240	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 13:49

Client Sample ID: MW-5 2.5-4FT
Lab Sample ID: 480-227384-6
Date Collected: 02/14/25 14:30
Matrix: Solid
Date Received: 02/14/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739132	JLS	EET BUF	02/17/25 14:00

Client Sample ID: MW-5 2.5-4FT
Lab Sample ID: 480-227384-6
Date Collected: 02/14/25 14:30
Matrix: Solid
Date Received: 02/14/25 15:40
Percent Solids: 64.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			739071	ERS	EET BUF	02/14/25 17:44
Total/NA	Analysis	8260C		1	739146	LCH	EET BUF	02/17/25 23:35
Total/NA	Prep	3550C			739229	DP	EET BUF	02/19/25 06:54
Total/NA	Analysis	8270D		5	739297	AF	EET BUF	02/19/25 23:13
Total/NA	Prep	3550C			739397	JMP	EET BUF	02/21/25 08:39
Total/NA	Analysis	8081B		1	739473	JLS	EET BUF	02/24/25 17:17
Total/NA	Prep	3550C			739219	JMP	EET BUF	02/18/25 15:30
Total/NA	Analysis	8082A		1	739230	H9RU	EET BUF	02/19/25 18:13
Total/NA	Prep	8151A			739257	VXF	EET BUF	02/19/25 09:29
Total/NA	Analysis	8151A		1	739487	JLS	EET BUF	02/24/25 19:52
Total/NA	Prep	1633 Shake			645605	CLB	EET CLE	02/20/25 15:27
Total/NA	Analysis	1633		1	645730	MRL	EET CLE	02/21/25 17:36
Total/NA	Prep	3050B			739093	ET	EET BUF	02/15/25 15:47
Total/NA	Analysis	6010C		1	739174	BMB	EET BUF	02/17/25 20:24
Total/NA	Prep	7471B			739240	ESB	EET BUF	02/19/25 09:48
Total/NA	Analysis	7471B		1	739294	ESB	EET BUF	02/19/25 13:50

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8151A	8151A	Solid	Picloram
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Method Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
8151A	Herbicides (GC)	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227384-1	MW-6 4-5FT	Solid	02/14/25 10:00	02/14/25 15:40
480-227384-2	SS-5	Solid	02/14/25 12:15	02/14/25 15:40
480-227384-3	SS-6	Solid	02/14/25 13:30	02/14/25 15:40
480-227384-4	RISB-8 0.5-4FT	Solid	02/14/25 12:30	02/14/25 15:40
480-227384-5	RISB-9 2-4FT	Solid	02/14/25 13:15	02/14/25 15:40
480-227384-6	MW-5 2.5-4FT	Solid	02/14/25 14:30	02/14/25 15:40

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Nick Surac	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-202116-41517.8
Client Contact: Bryan Mayback	Phone: 716-713-3437	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 8 of 9
Company: Roux Environmental Engineering and Geology DPC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: Standard			
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested 4375.0002.0000			
Email: bmayback@rouxinc.com	WO #:			
Project Name: North Aud Block - soil	Project #: 48028442			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None

480-227384 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	1633 - 1633 Standard List of 40	8082A, 8151A	6010C, 7471B	8081B, 8270D	TCL SVOC's + TICs	TAL Metals	Pesticides	Total Number of c	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N					
~~MW-5 2.5-4Ft~~	~~2/14/25~~	~~1430~~	~~G~~	Solid			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		
MW-6 4-5 Ft		10:00		Solid								X	X	X		
SS-5		12:15		Solid				X	X	X	X	X	X	X		
SS-6		13:30		Solid				X	X	X	X					
RI SB-8 0.5-4Ft		12:30		Solid								X	X	X		
RI SB-9 2-4Ft		13:15		Solid								X	X	X		
MW-5 2.5-4Ft	2/14/25	1430	G	Solid			X	X	X	X	X					Encores
				Solid												
				Solid												
				Solid												
				Solid												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYSDEC Encores

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 2/14/25 15:40	Company: Roux	Received by: Date/Time: 2/14/25 1540 Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1 2.4 IR#5CJCE

Ver: 10/10/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer Brian J	Carrier Tracking No(s): N/A	COC No: 480-91470.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-227384-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 3/6/2025			
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SS-6 (480-227384-3)	2/14/25	13:30 Eastern	G	Solid			X	1	
MW-5 2.5-4FT (480-227384-6)	2/14/25	14:30 Eastern	G	Solid			X	1	

86-49

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	2-17-25 1600		MALISSA LOAR	2/19/25 9:45	
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client EUR Buffalo Site Name

Cooler Received on 2/19/25 Opened on 2/19/25

Cooler unpacked by: MALISSA LOAR

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # 2 Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13 (CF 0 °C) Observed Cooler Temp. 2.1 °C Corrected Cooler Temp 2.1 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	(No) NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4 Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC448976
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen.

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

Chain of Custody Record



ofins
Env ronm n

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer Brian J	Carrier Tracking No(s): N/A	COC No: 480-91470.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-227384-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 3/6/2025			
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

86-49

Special Instructions/Note:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oi BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Total Number of containers
			Preservation Code:					
SS-6 (480-227384-3)	2/14/25	13.30 Eastern	G	Solid			X	1
MW-5 2.5-4FT (480-227384-6)	2/14/25	14.30 Eastern	G	Solid			X	1

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by: MALISSA LOAR	Date/Time: 2/19/25 9:45	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client EUR Buffalo Site Name

Cooler Received on 2/19/25 Opened on 2/19/25

Cooler unpacked by: MALISSA LOAR

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EL Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13 (CF 0 °C) Observed Cooler Temp. 2.1 °C Corrected Cooler Temp 2.1 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3 Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5 Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7 Did all bottles arrive in good condition (Unbroken)?	Yes	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	Yes	No
11 Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC448976
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

Both vials Received frozen 1 of them came broken

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen.

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-227384-1

Login Number: 227384
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	roux
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Generated 2/28/2025 10:39:01 AM

JOB DESCRIPTION

North Aud Block

JOB NUMBER

480-227437-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

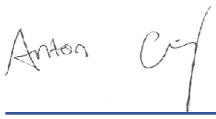
Eurofins Buffalo

Job Notes

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Authorization



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Designee for
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Brian.Fischer@et.eurofinsus.com
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Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 22
QC Sample Results 24
QC Association Summary 33
Lab Chronicle 38
Certification Summary 42
Method Summary 43
Sample Summary 44
Chain of Custody 45
Receipt Checklists 46

Definitions/Glossary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-227437-1 Eurofins Buffalo

Job Narrative
480-227437-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/20/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

GC/MS VOA
Method 8260C - TCLP: The following samples were diluted due to the nature of the TCLP matrix: WC-1 (480-227437-1), WC-2 (480-227437-2), WC-3 (480-227437-3), WC-4 (480-227437-4), WC-5 (480-227437-5) and (LB 480-739480/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010C - TCLP: The low level continuing calibration verification (CCVL) for analytical batch 480-739639 recovered above the upper control limit for (Lead). The samples associated with this CCVL contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples WC-1 (480-227437-1), WC-2 (480-227437-2) and (LCS 480-739534/3-A) was not performed.

Method 6010C - TCLP: The low level continuing calibration verification (CCVL) for analytical batch 480-739639 recovered above the upper control limit for (Lead). The samples associated with this CCVL were ND; therefore, re-analysis of samples (LB 480-739479/1-B) and (MB 480-739534/2-A) was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-1 (480-227437-1), WC-2 (480-227437-2), WC-3 (480-227437-3), WC-4 (480-227437-4) and WC-5 (480-227437-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-1 — Lab Sample ID: 480-227437-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.51	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0026		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.66	^+	0.020	0.0030	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.4	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-2 — Lab Sample ID: 480-227437-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.013	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.77	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0082		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	2.2	^+	0.020	0.0030	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.4	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-3 — Lab Sample ID: 480-227437-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0065	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.66	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0023		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.046		0.020	0.0030	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.5	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-4 — Lab Sample ID: 480-227437-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.49	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0028		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.049		0.020	0.0030	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-5 — Lab Sample ID: 480-227437-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.75	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0033		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	1.4		0.020	0.0030	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.6	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.8	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-1
Lab Sample ID: 480-227437-1
Date Collected: 02/18/25 13:25
Matrix: Solid
Date Received: 02/20/25 09:00

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			02/25/25 16:33	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/25/25 16:33	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/25/25 16:33	10
Chloroform	ND		0.010	0.0034	mg/L			02/25/25 16:33	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/25/25 16:33	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/25/25 16:33	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/25/25 16:33	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/25/25 16:33	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/25/25 16:33	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/25/25 16:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*02/25/25 16:33*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/25/25 16:33*	*10*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*02/25/25 16:33*	*10*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*02/25/25 16:33*	*10*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/25/25 13:30	02/26/25 14:22	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/25/25 13:30	02/26/25 14:22	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/25/25 13:30	02/26/25 14:22	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/25/25 13:30	02/26/25 14:22	1
Hexachloroethane	ND		0.020	0.0023	mg/L		02/25/25 13:30	02/26/25 14:22	1
3-Methylphenol	ND		0.040	0.0016	mg/L		02/25/25 13:30	02/26/25 14:22	1
2-Methylphenol	ND		0.020	0.0016	mg/L		02/25/25 13:30	02/26/25 14:22	1
4-Methylphenol	ND		0.040	0.0014	mg/L		02/25/25 13:30	02/26/25 14:22	1
Nitrobenzene	ND		0.020	0.0011	mg/L		02/25/25 13:30	02/26/25 14:22	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		02/25/25 13:30	02/26/25 14:22	1
Pyridine	ND		0.10	0.0016	mg/L		02/25/25 13:30	02/26/25 14:22	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/25/25 13:30	02/26/25 14:22	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/25/25 13:30	02/26/25 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*25 - 144*	*02/25/25 13:30*	*02/26/25 14:22*	*1*
2-Fluorobiphenyl	*89*		*53 - 126*	*02/25/25 13:30*	*02/26/25 14:22*	*1*
2-Fluorophenol	*49*		*24 - 120*	*02/25/25 13:30*	*02/26/25 14:22*	*1*
Nitrobenzene-d5	*87*		*29 - 129*	*02/25/25 13:30*	*02/26/25 14:22*	*1*
p-Terphenyl-d14	*99*		*33 - 132*	*02/25/25 13:30*	*02/26/25 14:22*	*1*
Phenol-d5	*32*		*10 - 120*	*02/25/25 13:30*	*02/26/25 14:22*	*1*

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/25/25 09:31	02/25/25 19:02	1
Barium	**0.51**	**J**	1.0	0.10	mg/L		02/25/25 09:31	02/25/25 19:02	1
Cadmium	**0.0026**		0.0020	0.00050	mg/L		02/25/25 09:31	02/25/25 19:02	1
Chromium	ND		0.020	0.010	mg/L		02/25/25 09:31	02/25/25 19:02	1
Lead	**0.66**	**^+**	0.020	0.0030	mg/L		02/25/25 09:31	02/25/25 19:02	1
Selenium	ND		0.025	0.0087	mg/L		02/25/25 09:31	02/25/25 19:02	1
Silver	ND		0.0060	0.0017	mg/L		02/27/25 08:36	02/27/25 17:12	1

Client Sample ID: WC-1
Lab Sample ID: 480-227437-1

Date Collected: 02/18/25 13:25
Matrix: Solid

Date Received: 02/20/25 09:00

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/25/25 09:49	02/25/25 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.9	9.9	mg/Kg		02/24/25 14:10	02/25/25 12:35	1
Sulfide, Reactive (SW846 9034)	ND		9.9	9.9	mg/Kg		02/24/25 14:10	02/25/25 12:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>180**		50.0	50.0	Degrees F			02/21/25 09:24	1
pH (SW846 9045D)	**8.4**	**HF**	0.1	0.1	SU			02/25/25 09:45	1
Temperature (SW846 9045D)	**18.0**	**HF**	0.001	0.001	Degrees C			02/25/25 09:45	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-1
Lab Sample ID: 480-227437-1
Date Collected: 02/18/25 13:25
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 85.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	02/26/25 07:09	02/26/25 14:40	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	02/26/25 07:09	02/26/25 14:40	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	02/26/25 07:09	02/26/25 14:40	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	02/26/25 07:09	02/26/25 14:40	1
PCB-1248	ND		0.27	0.052	mg/Kg	☼	02/26/25 07:09	02/26/25 14:40	1
PCB-1254	ND		0.27	0.12	mg/Kg	☼	02/26/25 07:09	02/26/25 14:40	1
PCB-1260	ND		0.27	0.12	mg/Kg	☼	02/26/25 07:09	02/26/25 14:40	1
PCB-1262	ND		0.27	0.12	mg/Kg	☼	02/26/25 07:09	02/26/25 14:40	1
PCB-1268	ND		0.27	0.12	mg/Kg	☼	02/26/25 07:09	02/26/25 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*60 - 154*	*02/26/25 07:09*	*02/26/25 14:40*	*1*
Tetrachloro-m-xylene	*96*		*60 - 154*	*02/26/25 07:09*	*02/26/25 14:40*	*1*
DCB Decachlorobiphenyl	*91*		*65 - 174*	*02/26/25 07:09*	*02/26/25 14:40*	*1*
DCB Decachlorobiphenyl	*100*		*65 - 174*	*02/26/25 07:09*	*02/26/25 14:40*	*1*

Client Sample ID: WC-2
Date Collected: 02/18/25 14:30
Date Received: 02/20/25 09:00

Lab Sample ID: 480-227437-2
Matrix: Solid

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			02/25/25 16:55	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/25/25 16:55	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/25/25 16:55	10
Chloroform	ND		0.010	0.0034	mg/L			02/25/25 16:55	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/25/25 16:55	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/25/25 16:55	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/25/25 16:55	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/25/25 16:55	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/25/25 16:55	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/25/25 16:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/25/25 16:55*	*10*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/25/25 16:55*	*10*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*02/25/25 16:55*	*10*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*02/25/25 16:55*	*10*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/25/25 13:30	02/26/25 14:46	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/25/25 13:30	02/26/25 14:46	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/25/25 13:30	02/26/25 14:46	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/25/25 13:30	02/26/25 14:46	1
Hexachloroethane	ND		0.020	0.0023	mg/L		02/25/25 13:30	02/26/25 14:46	1
3-Methylphenol	ND		0.040	0.0016	mg/L		02/25/25 13:30	02/26/25 14:46	1
2-Methylphenol	ND		0.020	0.0016	mg/L		02/25/25 13:30	02/26/25 14:46	1
4-Methylphenol	ND		0.040	0.0014	mg/L		02/25/25 13:30	02/26/25 14:46	1
Nitrobenzene	ND		0.020	0.0011	mg/L		02/25/25 13:30	02/26/25 14:46	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		02/25/25 13:30	02/26/25 14:46	1
Pyridine	ND		0.10	0.0016	mg/L		02/25/25 13:30	02/26/25 14:46	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/25/25 13:30	02/26/25 14:46	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/25/25 13:30	02/26/25 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*25 - 144*	*02/25/25 13:30*	*02/26/25 14:46*	*1*
2-Fluorobiphenyl	*87*		*53 - 126*	*02/25/25 13:30*	*02/26/25 14:46*	*1*
2-Fluorophenol	*49*		*24 - 120*	*02/25/25 13:30*	*02/26/25 14:46*	*1*
Nitrobenzene-d5	*84*		*29 - 129*	*02/25/25 13:30*	*02/26/25 14:46*	*1*
p-Terphenyl-d14	*100*		*33 - 132*	*02/25/25 13:30*	*02/26/25 14:46*	*1*
Phenol-d5	*33*		*10 - 120*	*02/25/25 13:30*	*02/26/25 14:46*	*1*

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.013**	**J**	0.015	0.0056	mg/L		02/25/25 09:31	02/25/25 19:04	1
Barium	**0.77**	**J**	1.0	0.10	mg/L		02/25/25 09:31	02/25/25 19:04	1
Cadmium	**0.0082**		0.0020	0.00050	mg/L		02/25/25 09:31	02/25/25 19:04	1
Chromium	ND		0.020	0.010	mg/L		02/25/25 09:31	02/25/25 19:04	1
Lead	**2.2**	**^+**	0.020	0.0030	mg/L		02/25/25 09:31	02/25/25 19:04	1
Selenium	ND		0.025	0.0087	mg/L		02/25/25 09:31	02/25/25 19:04	1
Silver	ND		0.0060	0.0017	mg/L		02/27/25 08:36	02/27/25 17:13	1

Client Sample ID: WC-2
Lab Sample ID: 480-227437-2

Date Collected: 02/18/25 14:30
Matrix: Solid

Date Received: 02/20/25 09:00

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/25/25 09:49	02/25/25 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.8	9.8	mg/Kg		02/24/25 14:10	02/25/25 12:35	1
Sulfide, Reactive (SW846 9034)	ND		9.8	9.8	mg/Kg		02/24/25 14:10	02/25/25 12:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>180**		50.0	50.0	Degrees F			02/21/25 11:38	1
pH (SW846 9045D)	**8.3**	**HF**	0.1	0.1	SU			02/25/25 09:45	1
Temperature (SW846 9045D)	**18.4**	**HF**	0.001	0.001	Degrees C			02/25/25 09:45	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-2
Lab Sample ID: 480-227437-2
Date Collected: 02/18/25 14:30
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 85.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	02/26/25 07:09	02/26/25 14:58	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	02/26/25 07:09	02/26/25 14:58	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	02/26/25 07:09	02/26/25 14:58	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	02/26/25 07:09	02/26/25 14:58	1
PCB-1248	ND		0.26	0.050	mg/Kg	☼	02/26/25 07:09	02/26/25 14:58	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	02/26/25 07:09	02/26/25 14:58	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	02/26/25 07:09	02/26/25 14:58	1
PCB-1262	ND		0.26	0.12	mg/Kg	☼	02/26/25 07:09	02/26/25 14:58	1
PCB-1268	ND		0.26	0.12	mg/Kg	☼	02/26/25 07:09	02/26/25 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*60 - 154*	*02/26/25 07:09*	*02/26/25 14:58*	*1*
Tetrachloro-m-xylene	*115*		*60 - 154*	*02/26/25 07:09*	*02/26/25 14:58*	*1*
DCB Decachlorobiphenyl	*111*		*65 - 174*	*02/26/25 07:09*	*02/26/25 14:58*	*1*
DCB Decachlorobiphenyl	*120*		*65 - 174*	*02/26/25 07:09*	*02/26/25 14:58*	*1*

Client Sample ID: WC-3
Lab Sample ID: 480-227437-3

Date Collected: 02/18/25 13:00
Matrix: Solid
Date Received: 02/20/25 09:00

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			02/25/25 17:17	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/25/25 17:17	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/25/25 17:17	10
Chloroform	ND		0.010	0.0034	mg/L			02/25/25 17:17	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/25/25 17:17	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/25/25 17:17	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/25/25 17:17	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/25/25 17:17	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/25/25 17:17	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/25/25 17:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/25/25 17:17*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/25/25 17:17*	*10*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*02/25/25 17:17*	*10*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*02/25/25 17:17*	*10*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/25/25 13:30	02/26/25 15:11	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/25/25 13:30	02/26/25 15:11	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/25/25 13:30	02/26/25 15:11	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/25/25 13:30	02/26/25 15:11	1
Hexachloroethane	ND		0.020	0.0023	mg/L		02/25/25 13:30	02/26/25 15:11	1
3-Methylphenol	ND		0.040	0.0016	mg/L		02/25/25 13:30	02/26/25 15:11	1
2-Methylphenol	ND		0.020	0.0016	mg/L		02/25/25 13:30	02/26/25 15:11	1
4-Methylphenol	ND		0.040	0.0014	mg/L		02/25/25 13:30	02/26/25 15:11	1
Nitrobenzene	ND		0.020	0.0011	mg/L		02/25/25 13:30	02/26/25 15:11	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		02/25/25 13:30	02/26/25 15:11	1
Pyridine	ND		0.10	0.0016	mg/L		02/25/25 13:30	02/26/25 15:11	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/25/25 13:30	02/26/25 15:11	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/25/25 13:30	02/26/25 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*25 - 144*	*02/25/25 13:30*	*02/26/25 15:11*	*1*
2-Fluorobiphenyl	*88*		*53 - 126*	*02/25/25 13:30*	*02/26/25 15:11*	*1*
2-Fluorophenol	*52*		*24 - 120*	*02/25/25 13:30*	*02/26/25 15:11*	*1*
Nitrobenzene-d5	*92*		*29 - 129*	*02/25/25 13:30*	*02/26/25 15:11*	*1*
p-Terphenyl-d14	*102*		*33 - 132*	*02/25/25 13:30*	*02/26/25 15:11*	*1*
Phenol-d5	*37*		*10 - 120*	*02/25/25 13:30*	*02/26/25 15:11*	*1*

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0065**	**J**	0.015	0.0056	mg/L		02/25/25 09:31	02/25/25 19:06	1
Barium	**0.66**	**J**	1.0	0.10	mg/L		02/25/25 09:31	02/25/25 19:06	1
Cadmium	**0.0023**		0.0020	0.00050	mg/L		02/25/25 09:31	02/25/25 19:06	1
Chromium	ND		0.020	0.010	mg/L		02/25/25 09:31	02/25/25 19:06	1
Lead	**0.046**		0.020	0.0030	mg/L		02/25/25 09:31	02/26/25 12:20	1
Selenium	ND		0.025	0.0087	mg/L		02/25/25 09:31	02/25/25 19:06	1
Silver	ND		0.0060	0.0017	mg/L		02/27/25 08:36	02/27/25 17:15	1

Client Sample ID: WC-3
Lab Sample ID: 480-227437-3

Date Collected: 02/18/25 13:00
Matrix: Solid
Date Received: 02/20/25 09:00

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/25/25 09:49	02/25/25 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.9	9.9	mg/Kg		02/24/25 14:10	02/25/25 12:35	1
Sulfide, Reactive (SW846 9034)	ND		9.9	9.9	mg/Kg		02/24/25 14:10	02/25/25 12:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>180**		50.0	50.0	Degrees F			02/21/25 11:38	1
pH (SW846 9045D)	**8.3**	**HF**	0.1	0.1	SU			02/25/25 09:45	1
Temperature (SW846 9045D)	**18.5**	**HF**	0.001	0.001	Degrees C			02/25/25 09:45	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-3
Lab Sample ID: 480-227437-3
Date Collected: 02/18/25 13:00
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 84.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	02/26/25 07:09	02/26/25 15:16	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	02/26/25 07:09	02/26/25 15:16	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	02/26/25 07:09	02/26/25 15:16	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	02/26/25 07:09	02/26/25 15:16	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	02/26/25 07:09	02/26/25 15:16	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	02/26/25 07:09	02/26/25 15:16	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	02/26/25 07:09	02/26/25 15:16	1
PCB-1262	ND		0.24	0.11	mg/Kg	☼	02/26/25 07:09	02/26/25 15:16	1
PCB-1268	ND		0.24	0.11	mg/Kg	☼	02/26/25 07:09	02/26/25 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*60 - 154*	*02/26/25 07:09*	*02/26/25 15:16*	*1*
Tetrachloro-m-xylene	*103*		*60 - 154*	*02/26/25 07:09*	*02/26/25 15:16*	*1*
DCB Decachlorobiphenyl	*97*		*65 - 174*	*02/26/25 07:09*	*02/26/25 15:16*	*1*
DCB Decachlorobiphenyl	*105*		*65 - 174*	*02/26/25 07:09*	*02/26/25 15:16*	*1*

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-4
Lab Sample ID: 480-227437-4
Date Collected: 02/18/25 14:00
Matrix: Solid
Date Received: 02/20/25 09:00

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			02/25/25 17:40	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/25/25 17:40	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/25/25 17:40	10
Chloroform	ND		0.010	0.0034	mg/L			02/25/25 17:40	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/25/25 17:40	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/25/25 17:40	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/25/25 17:40	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/25/25 17:40	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/25/25 17:40	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/25/25 17:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/25/25 17:40*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/25/25 17:40*	*10*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*02/25/25 17:40*	*10*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*02/25/25 17:40*	*10*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/25/25 13:30	02/26/25 15:35	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/25/25 13:30	02/26/25 15:35	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/25/25 13:30	02/26/25 15:35	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/25/25 13:30	02/26/25 15:35	1
Hexachloroethane	ND		0.020	0.0023	mg/L		02/25/25 13:30	02/26/25 15:35	1
3-Methylphenol	ND		0.040	0.0016	mg/L		02/25/25 13:30	02/26/25 15:35	1
2-Methylphenol	ND		0.020	0.0016	mg/L		02/25/25 13:30	02/26/25 15:35	1
4-Methylphenol	ND		0.040	0.0014	mg/L		02/25/25 13:30	02/26/25 15:35	1
Nitrobenzene	ND		0.020	0.0011	mg/L		02/25/25 13:30	02/26/25 15:35	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		02/25/25 13:30	02/26/25 15:35	1
Pyridine	ND		0.10	0.0016	mg/L		02/25/25 13:30	02/26/25 15:35	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/25/25 13:30	02/26/25 15:35	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/25/25 13:30	02/26/25 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*25 - 144*	*02/25/25 13:30*	*02/26/25 15:35*	*1*
2-Fluorobiphenyl	*66*		*53 - 126*	*02/25/25 13:30*	*02/26/25 15:35*	*1*
2-Fluorophenol	*38*		*24 - 120*	*02/25/25 13:30*	*02/26/25 15:35*	*1*
Nitrobenzene-d5	*65*		*29 - 129*	*02/25/25 13:30*	*02/26/25 15:35*	*1*
p-Terphenyl-d14	*85*		*33 - 132*	*02/25/25 13:30*	*02/26/25 15:35*	*1*
Phenol-d5	*27*		*10 - 120*	*02/25/25 13:30*	*02/26/25 15:35*	*1*

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/25/25 09:31	02/25/25 19:14	1
Barium	**0.49**	**J**	1.0	0.10	mg/L		02/25/25 09:31	02/25/25 19:14	1
Cadmium	**0.0028**		0.0020	0.00050	mg/L		02/25/25 09:31	02/25/25 19:14	1
Chromium	ND		0.020	0.010	mg/L		02/25/25 09:31	02/25/25 19:14	1
Lead	**0.049**		0.020	0.0030	mg/L		02/25/25 09:31	02/25/25 19:14	1
Selenium	ND		0.025	0.0087	mg/L		02/25/25 09:31	02/25/25 19:14	1
Silver	ND		0.0060	0.0017	mg/L		02/27/25 08:36	02/27/25 17:17	1

Client Sample ID: WC-4
Lab Sample ID: 480-227437-4

Date Collected: 02/18/25 14:00
Matrix: Solid

Date Received: 02/20/25 09:00

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/25/25 09:49	02/25/25 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.9	9.9	mg/Kg		02/24/25 14:10	02/25/25 12:36	1
Sulfide, Reactive (SW846 9034)	ND		9.9	9.9	mg/Kg		02/24/25 14:10	02/25/25 12:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>180**		50.0	50.0	Degrees F			02/21/25 11:38	1
pH (SW846 9045D)	**8.8**	**HF**	0.1	0.1	SU			02/25/25 09:45	1
Temperature (SW846 9045D)	**18.6**	**HF**	0.001	0.001	Degrees C			02/25/25 09:45	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-4
Lab Sample ID: 480-227437-4
Date Collected: 02/18/25 14:00
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 85.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	☼	02/26/25 07:09	02/26/25 15:35	1
PCB-1221	ND		0.28	0.054	mg/Kg	☼	02/26/25 07:09	02/26/25 15:35	1
PCB-1232	ND		0.28	0.054	mg/Kg	☼	02/26/25 07:09	02/26/25 15:35	1
PCB-1242	ND		0.28	0.054	mg/Kg	☼	02/26/25 07:09	02/26/25 15:35	1
PCB-1248	ND		0.28	0.054	mg/Kg	☼	02/26/25 07:09	02/26/25 15:35	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	02/26/25 07:09	02/26/25 15:35	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	02/26/25 07:09	02/26/25 15:35	1
PCB-1262	ND		0.28	0.13	mg/Kg	☼	02/26/25 07:09	02/26/25 15:35	1
PCB-1268	ND		0.28	0.13	mg/Kg	☼	02/26/25 07:09	02/26/25 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*60 - 154*	*02/26/25 07:09*	*02/26/25 15:35*	*1*
Tetrachloro-m-xylene	*90*		*60 - 154*	*02/26/25 07:09*	*02/26/25 15:35*	*1*
DCB Decachlorobiphenyl	*88*		*65 - 174*	*02/26/25 07:09*	*02/26/25 15:35*	*1*
DCB Decachlorobiphenyl	*94*		*65 - 174*	*02/26/25 07:09*	*02/26/25 15:35*	*1*

Client Sample ID: WC-5
Date Collected: 02/18/25 09:00
Date Received: 02/20/25 09:00

Lab Sample ID: 480-227437-5
Matrix: Solid

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			02/25/25 18:02	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/25/25 18:02	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/25/25 18:02	10
Chloroform	ND		0.010	0.0034	mg/L			02/25/25 18:02	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/25/25 18:02	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/25/25 18:02	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/25/25 18:02	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/25/25 18:02	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/25/25 18:02	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/25/25 18:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*02/25/25 18:02*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/25/25 18:02*	*10*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*02/25/25 18:02*	*10*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*02/25/25 18:02*	*10*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/25/25 13:30	02/26/25 16:00	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/25/25 13:30	02/26/25 16:00	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/25/25 13:30	02/26/25 16:00	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/25/25 13:30	02/26/25 16:00	1
Hexachloroethane	ND		0.020	0.0023	mg/L		02/25/25 13:30	02/26/25 16:00	1
3-Methylphenol	ND		0.040	0.0016	mg/L		02/25/25 13:30	02/26/25 16:00	1
2-Methylphenol	ND		0.020	0.0016	mg/L		02/25/25 13:30	02/26/25 16:00	1
4-Methylphenol	ND		0.040	0.0014	mg/L		02/25/25 13:30	02/26/25 16:00	1
Nitrobenzene	ND		0.020	0.0011	mg/L		02/25/25 13:30	02/26/25 16:00	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		02/25/25 13:30	02/26/25 16:00	1
Pyridine	ND		0.10	0.0016	mg/L		02/25/25 13:30	02/26/25 16:00	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/25/25 13:30	02/26/25 16:00	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/25/25 13:30	02/26/25 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*25 - 144*	*02/25/25 13:30*	*02/26/25 16:00*	*1*
2-Fluorobiphenyl	*65*		*53 - 126*	*02/25/25 13:30*	*02/26/25 16:00*	*1*
2-Fluorophenol	*37*		*24 - 120*	*02/25/25 13:30*	*02/26/25 16:00*	*1*
Nitrobenzene-d5	*62*		*29 - 129*	*02/25/25 13:30*	*02/26/25 16:00*	*1*
p-Terphenyl-d14	*91*		*33 - 132*	*02/25/25 13:30*	*02/26/25 16:00*	*1*
Phenol-d5	*26*		*10 - 120*	*02/25/25 13:30*	*02/26/25 16:00*	*1*

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/25/25 09:31	02/25/25 19:16	1
Barium	**0.75**	**J**	1.0	0.10	mg/L		02/25/25 09:31	02/25/25 19:16	1
Cadmium	**0.0033**		0.0020	0.00050	mg/L		02/25/25 09:31	02/25/25 19:16	1
Chromium	ND		0.020	0.010	mg/L		02/25/25 09:31	02/25/25 19:16	1
Lead	**1.4**		0.020	0.0030	mg/L		02/25/25 09:31	02/25/25 19:16	1
Selenium	ND		0.025	0.0087	mg/L		02/25/25 09:31	02/25/25 19:16	1
Silver	ND		0.0060	0.0017	mg/L		02/27/25 08:36	02/27/25 17:31	1

Client Sample ID: WC-5
Lab Sample ID: 480-227437-5

Date Collected: 02/18/25 09:00
Matrix: Solid

Date Received: 02/20/25 09:00

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/25/25 09:49	02/25/25 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.5	9.5	mg/Kg		02/24/25 14:10	02/25/25 12:36	1
Sulfide, Reactive (SW846 9034)	ND		9.5	9.5	mg/Kg		02/24/25 14:10	02/25/25 12:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>180**		50.0	50.0	Degrees F			02/21/25 11:38	1
pH (SW846 9045D)	**8.6**	**HF**	0.1	0.1	SU			02/25/25 09:45	1
Temperature (SW846 9045D)	**18.8**	**HF**	0.001	0.001	Degrees C			02/25/25 09:45	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-5
Lab Sample ID: 480-227437-5
Date Collected: 02/18/25 09:00
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 87.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.046	mg/Kg	☼	02/26/25 07:09	02/27/25 09:51	1
PCB-1221	ND		0.23	0.046	mg/Kg	☼	02/26/25 07:09	02/27/25 09:51	1
PCB-1232	ND		0.23	0.046	mg/Kg	☼	02/26/25 07:09	02/27/25 09:51	1
PCB-1242	ND		0.23	0.046	mg/Kg	☼	02/26/25 07:09	02/27/25 09:51	1
PCB-1248	ND		0.23	0.046	mg/Kg	☼	02/26/25 07:09	02/27/25 09:51	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	02/26/25 07:09	02/27/25 09:51	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	02/26/25 07:09	02/27/25 09:51	1
PCB-1262	ND		0.23	0.11	mg/Kg	☼	02/26/25 07:09	02/27/25 09:51	1
PCB-1268	ND		0.23	0.11	mg/Kg	☼	02/26/25 07:09	02/27/25 09:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*60 - 154*	*02/26/25 07:09*	*02/27/25 09:51*	*1*
Tetrachloro-m-xylene	*76*		*60 - 154*	*02/26/25 07:09*	*02/27/25 09:51*	*1*
DCB Decachlorobiphenyl	*72*		*65 - 174*	*02/26/25 07:09*	*02/27/25 09:51*	*1*
DCB Decachlorobiphenyl	*74*		*65 - 174*	*02/26/25 07:09*	*02/27/25 09:51*	*1*

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Method: 8260C - TCLP Volatiles

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
LCS 480-739559/9	Lab Control Sample	104	102	99	98
LCSD 480-739559/33	Lab Control Sample Dup	100	100	103	102
MB 480-739559/8	Method Blank	106	101	102	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-227437-1	WC-1	101	103	97	96
480-227437-2	WC-2	104	102	99	102
480-227437-3	WC-3	105	100	100	109
480-227437-4	WC-4	104	98	99	101
480-227437-5	WC-5	108	99	103	108
LB 480-739480/1-A	Method Blank	107	100	99	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(33-132)	(10-120)
LCS 480-739575/2-A	Lab Control Sample	104	92	56	90	99	41
LCSD 480-739575/3-A	Lab Control Sample Dup	102	89	55	87	98	40
MB 480-739575/1-A	Method Blank	85	89	55	92	99	37

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: TCLP

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(33-132)	(10-120)
480-227437-1	WC-1	88	89	49	87	99	32
480-227437-2	WC-2	87	87	49	84	100	33
480-227437-3	WC-3	97	88	52	92	102	37
480-227437-4	WC-4	71	66	38	65	85	27
480-227437-5	WC-5	73	65	37	62	91	26
LB 480-739479/1-D	Method Blank	90	95	54	92	100	38

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-227437-1	WC-1	90	96	91	100
480-227437-1 MS	WC-1	106	108	109	117
480-227437-1 MSD	WC-1	96	96	103	105
480-227437-2	WC-2	105	115	111	120
480-227437-3	WC-3	90	103	97	105
480-227437-4	WC-4	84	90	88	94
480-227437-5	WC-5	69	76	72	74
LCS 480-739622/2-A	Lab Control Sample	121	129	130	135
MB 480-739622/1-A	Method Blank	101	100	116	118

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-739559/8
Matrix: Solid
Analysis Batch: 739559

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010	0.00041	mg/L			02/25/25 13:33	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			02/25/25 13:33	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			02/25/25 13:33	1
Chloroform	ND		0.0010	0.00034	mg/L			02/25/25 13:33	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			02/25/25 13:33	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			02/25/25 13:33	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			02/25/25 13:33	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			02/25/25 13:33	1
Trichloroethene	ND		0.0010	0.00046	mg/L			02/25/25 13:33	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			02/25/25 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*02/25/25 13:33*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/25/25 13:33*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*02/25/25 13:33*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/25/25 13:33*	*1*

Lab Sample ID: LCS 480-739559/9
Matrix: Solid
Analysis Batch: 739559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0250	0.0271		mg/L		108	71 - 124		
Carbon tetrachloride			0.0250	0.0252		mg/L		101	72 - 134		
Chlorobenzene			0.0250	0.0254		mg/L		102	80 - 120		
Chloroform			0.0250	0.0233		mg/L		93	73 - 127		
1,2-Dichloroethane			0.0250	0.0273		mg/L		109	75 - 120		
1,1-Dichloroethene			0.0250	0.0253		mg/L		101	66 - 127		
2-Butanone (MEK)			0.125	0.154		mg/L		124	57 - 140		
Tetrachloroethene			0.0250	0.0289		mg/L		116	74 - 122		
Trichloroethene			0.0250	0.0275		mg/L		110	74 - 123		
Vinyl chloride			0.0250	0.0280		mg/L		112	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Lab Sample ID: LCSD 480-739559/33
Matrix: Solid
Analysis Batch: 739559

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0250	0.0257		mg/L		103	71 - 124	5	13
Carbon tetrachloride			0.0250	0.0232		mg/L		93	72 - 134	8	15
Chlorobenzene			0.0250	0.0250		mg/L		100	80 - 120	2	25
Chloroform			0.0250	0.0235		mg/L		94	73 - 127	1	20

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LCSD 480-739559/33
Matrix: Solid
Analysis Batch: 739559

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			0.0250	0.0266		mg/L		106	75 - 120	3	20
1,1-Dichloroethene			0.0250	0.0252		mg/L		101	66 - 127	0	16
2-Butanone (MEK)			0.125	0.140		mg/L		112	57 - 140	10	20
Tetrachloroethene			0.0250	0.0272		mg/L		109	74 - 122	6	20
Trichloroethene			0.0250	0.0261		mg/L		104	74 - 123	6	16
Vinyl chloride			0.0250	0.0261		mg/L		104	65 - 133	7	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: LB 480-739480/1-A
Matrix: Solid
Analysis Batch: 739559

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			02/25/25 15:03	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/25/25 15:03	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/25/25 15:03	10
Chloroform	ND		0.010	0.0034	mg/L			02/25/25 15:03	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/25/25 15:03	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/25/25 15:03	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/25/25 15:03	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/25/25 15:03	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/25/25 15:03	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/25/25 15:03	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*02/25/25 15:03*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/25/25 15:03*	*10*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*02/25/25 15:03*	*10*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*02/25/25 15:03*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-739575/1-A
Matrix: Solid
Analysis Batch: 739640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00045	mg/L		02/25/25 13:30	02/26/25 11:31	1
2,4-Dinitrotoluene	ND		0.0050	0.00043	mg/L		02/25/25 13:30	02/26/25 11:31	1
Hexachlorobenzene	ND		0.0050	0.00050	mg/L		02/25/25 13:30	02/26/25 11:31	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		02/25/25 13:30	02/26/25 11:31	1
Hexachloroethane	ND		0.0050	0.00058	mg/L		02/25/25 13:30	02/26/25 11:31	1
3-Methylphenol	ND		0.010	0.00040	mg/L		02/25/25 13:30	02/26/25 11:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-739575/1-A
Matrix: Solid
Analysis Batch: 739640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		0.0050	0.00040	mg/L		02/25/25 13:30	02/26/25 11:31	1
4-Methylphenol	ND		0.010	0.00035	mg/L		02/25/25 13:30	02/26/25 11:31	1
Nitrobenzene	ND		0.0050	0.00028	mg/L		02/25/25 13:30	02/26/25 11:31	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		02/25/25 13:30	02/26/25 11:31	1
Pyridine	ND		0.025	0.00040	mg/L		02/25/25 13:30	02/26/25 11:31	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		02/25/25 13:30	02/26/25 11:31	1
2,4,6-Trichlorophenol	ND		0.0050	0.00060	mg/L		02/25/25 13:30	02/26/25 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*25 - 144*	*02/25/25 13:30*	*02/26/25 11:31*	*1*
2-Fluorobiphenyl	*89*		*53 - 126*	*02/25/25 13:30*	*02/26/25 11:31*	*1*
2-Fluorophenol	*55*		*24 - 120*	*02/25/25 13:30*	*02/26/25 11:31*	*1*
Nitrobenzene-d5	*92*		*29 - 129*	*02/25/25 13:30*	*02/26/25 11:31*	*1*
p-Terphenyl-d14	*99*		*33 - 132*	*02/25/25 13:30*	*02/26/25 11:31*	*1*
Phenol-d5	*37*		*10 - 120*	*02/25/25 13:30*	*02/26/25 11:31*	*1*

Lab Sample ID: LCS 480-739575/2-A
Matrix: Solid
Analysis Batch: 739640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739575

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dichlorobenzene			0.0400	0.0277		mg/L		69	42 - 120		
2,4-Dinitrotoluene			0.0400	0.0399		mg/L		100	69 - 120		
Hexachlorobenzene			0.0400	0.0435		mg/L		109	61 - 120		
Hexachlorobutadiene			0.0400	0.0290		mg/L		73	35 - 120		
Hexachloroethane			0.0400	0.0278		mg/L		69	33 - 120		
3-Methylphenol			0.0400	0.0324		mg/L		81	39 - 120		
2-Methylphenol			0.0400	0.0325		mg/L		81	39 - 120		
4-Methylphenol			0.0400	0.0324		mg/L		81	29 - 131		
Nitrobenzene			0.0400	0.0366		mg/L		92	53 - 123		
Pentachlorophenol			0.0800	0.0810		mg/L		101	10 - 136		
Pyridine			0.0800	0.0389		mg/L		49	10 - 120		
2,4,5-Trichlorophenol			0.0400	0.0402		mg/L		101	65 - 126		
2,4,6-Trichlorophenol			0.0400	0.0378		mg/L		94	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*104*		*25 - 144*
2-Fluorobiphenyl	*92*		*53 - 126*
2-Fluorophenol	*56*		*24 - 120*
Nitrobenzene-d5	*90*		*29 - 129*
p-Terphenyl-d14	*99*		*33 - 132*
Phenol-d5	*41*		*10 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-739575/3-A
Matrix: Solid
Analysis Batch: 739640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 739575

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0400	0.0260		mg/L		65	42 - 120	6	36
2,4-Dinitrotoluene			0.0400	0.0391		mg/L		98	69 - 120	2	20
Hexachlorobenzene			0.0400	0.0427		mg/L		107	61 - 120	2	15
Hexachlorobutadiene			0.0400	0.0270		mg/L		68	35 - 120	7	44
Hexachloroethane			0.0400	0.0244		mg/L		61	33 - 120	13	46
3-Methylphenol			0.0400	0.0324		mg/L		81	39 - 120	0	30
2-Methylphenol			0.0400	0.0328		mg/L		82	39 - 120	1	27
4-Methylphenol			0.0400	0.0324		mg/L		81	29 - 131	0	24
Nitrobenzene			0.0400	0.0347		mg/L		87	53 - 123	5	24
Pentachlorophenol			0.0800	0.0816		mg/L		102	10 - 136	1	37
Pyridine			0.0800	0.0386		mg/L		48	10 - 120	1	49
2,4,5-Trichlorophenol			0.0400	0.0388		mg/L		97	65 - 126	4	18
2,4,6-Trichlorophenol			0.0400	0.0381		mg/L		95	64 - 120	1	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*102*		*25 - 144*
2-Fluorobiphenyl	*89*		*53 - 126*
2-Fluorophenol	*55*		*24 - 120*
Nitrobenzene-d5	*87*		*29 - 129*
p-Terphenyl-d14	*98*		*33 - 132*
Phenol-d5	*40*		*10 - 120*

Lab Sample ID: LB 480-739479/1-D
Matrix: Solid
Analysis Batch: 739640

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 739575

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/25/25 13:30	02/26/25 12:44	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/25/25 13:30	02/26/25 12:44	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/25/25 13:30	02/26/25 12:44	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/25/25 13:30	02/26/25 12:44	1
Hexachloroethane	ND		0.020	0.0023	mg/L		02/25/25 13:30	02/26/25 12:44	1
3-Methylphenol	ND		0.040	0.0016	mg/L		02/25/25 13:30	02/26/25 12:44	1
2-Methylphenol	ND		0.020	0.0016	mg/L		02/25/25 13:30	02/26/25 12:44	1
4-Methylphenol	ND		0.040	0.0014	mg/L		02/25/25 13:30	02/26/25 12:44	1
Nitrobenzene	ND		0.020	0.0011	mg/L		02/25/25 13:30	02/26/25 12:44	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		02/25/25 13:30	02/26/25 12:44	1
Pyridine	ND		0.10	0.0016	mg/L		02/25/25 13:30	02/26/25 12:44	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/25/25 13:30	02/26/25 12:44	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/25/25 13:30	02/26/25 12:44	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*25 - 144*	*02/25/25 13:30*	*02/26/25 12:44*	*1*
2-Fluorobiphenyl	*95*		*53 - 126*	*02/25/25 13:30*	*02/26/25 12:44*	*1*
2-Fluorophenol	*54*		*24 - 120*	*02/25/25 13:30*	*02/26/25 12:44*	*1*
Nitrobenzene-d5	*92*		*29 - 129*	*02/25/25 13:30*	*02/26/25 12:44*	*1*
p-Terphenyl-d14	*100*		*33 - 132*	*02/25/25 13:30*	*02/26/25 12:44*	*1*
Phenol-d5	*38*		*10 - 120*	*02/25/25 13:30*	*02/26/25 12:44*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-739622/1-A
Matrix: Solid
Analysis Batch: 739623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1221	ND		0.25	0.049	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1232	ND		0.25	0.049	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1242	ND		0.25	0.049	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1248	ND		0.25	0.049	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1254	ND		0.25	0.12	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1260	ND		0.25	0.12	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1262	ND		0.25	0.12	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1268	ND		0.25	0.12	mg/Kg		02/26/25 07:09	02/26/25 13:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*60 - 154*	*02/26/25 07:09*	*02/26/25 13:26*	*1*
Tetrachloro-m-xylene	*100*		*60 - 154*	*02/26/25 07:09*	*02/26/25 13:26*	*1*
DCB Decachlorobiphenyl	*116*		*65 - 174*	*02/26/25 07:09*	*02/26/25 13:26*	*1*
DCB Decachlorobiphenyl	*118*		*65 - 174*	*02/26/25 07:09*	*02/26/25 13:26*	*1*

Lab Sample ID: LCS 480-739622/2-A
Matrix: Solid
Analysis Batch: 739623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739622

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			2.50	3.18		mg/Kg		127	51 - 185		
PCB-1260			2.50	3.37		mg/Kg		135	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*121*		*60 - 154*
Tetrachloro-m-xylene	*129*		*60 - 154*
DCB Decachlorobiphenyl	*130*		*65 - 174*
DCB Decachlorobiphenyl	*135*		*65 - 174*

Lab Sample ID: 480-227437-1 MS
Matrix: Solid
Analysis Batch: 739623

Client Sample ID: WC-1
Prep Type: Total/NA
Prep Batch: 739622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	ND		2.35	2.61		mg/Kg	☼	111	50 - 177		
PCB-1260	ND		2.35	2.71		mg/Kg	☼	115	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*106*		*60 - 154*
Tetrachloro-m-xylene	*108*		*60 - 154*
DCB Decachlorobiphenyl	*109*		*65 - 174*
DCB Decachlorobiphenyl	*117*		*65 - 174*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-227437-1 MSD
Matrix: Solid
Analysis Batch: 739623

Client Sample ID: WC-1
Prep Type: Total/NA
Prep Batch: 739622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		2.80	3.10		mg/Kg	☼	111	50 - 177	17	50
PCB-1260	ND		2.80	3.32		mg/Kg	☼	119	33 - 200	20	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*96*		*60 - 154*
Tetrachloro-m-xylene	*96*		*60 - 154*
DCB Decachlorobiphenyl	*103*		*65 - 174*
DCB Decachlorobiphenyl	*105*		*65 - 174*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-739534/2-A
Matrix: Solid
Analysis Batch: 739639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/25/25 09:31	02/25/25 18:53	1
Barium	ND		1.0	0.10	mg/L		02/25/25 09:31	02/25/25 18:53	1
Cadmium	ND		0.0020	0.00050	mg/L		02/25/25 09:31	02/25/25 18:53	1
Chromium	ND		0.020	0.010	mg/L		02/25/25 09:31	02/25/25 18:53	1
Lead	ND	^+	0.020	0.0030	mg/L		02/25/25 09:31	02/25/25 18:53	1
Selenium	ND		0.025	0.0087	mg/L		02/25/25 09:31	02/25/25 18:53	1

Lab Sample ID: LCS 480-739534/3-A
Matrix: Solid
Analysis Batch: 739639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.01	0.886		mg/L		88	80 - 120
Barium	1.00	0.918	J	mg/L		92	80 - 120
Cadmium	0.500	0.471		mg/L		94	80 - 120
Chromium	0.499	0.439		mg/L		88	80 - 120
Lead	0.500	0.481	^+	mg/L		96	80 - 120
Selenium	1.00	0.880		mg/L		88	80 - 120

Lab Sample ID: MB 480-739680/2-A
Matrix: Solid
Analysis Batch: 739834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0060	0.0017	mg/L		02/27/25 08:36	02/27/25 17:04	1

Lab Sample ID: LCS 480-739680/3-A
Matrix: Solid
Analysis Batch: 739834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.0500	0.0545		mg/L		109	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 480-739479/1-B
Matrix: Solid
Analysis Batch: 739639

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 739534

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/25/25 09:31	02/25/25 18:51	1
Barium	ND		1.0	0.10	mg/L		02/25/25 09:31	02/25/25 18:51	1
Cadmium	ND		0.0020	0.00050	mg/L		02/25/25 09:31	02/25/25 18:51	1
Chromium	ND		0.020	0.010	mg/L		02/25/25 09:31	02/25/25 18:51	1
Lead	ND	^+	0.020	0.0030	mg/L		02/25/25 09:31	02/25/25 18:51	1
Selenium	ND		0.025	0.0087	mg/L		02/25/25 09:31	02/25/25 18:51	1

Lab Sample ID: 480-227437-5 MS
Matrix: Solid
Analysis Batch: 739639

Client Sample ID: WC-5
Prep Type: TCLP
Prep Batch: 739534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		1.01	0.925		mg/L		92	75 - 125
Barium	0.75	J	1.00	1.68		mg/L		93	75 - 125
Cadmium	0.0033		0.500	0.494		mg/L		98	75 - 125
Chromium	ND		0.499	0.443		mg/L		89	75 - 125
Lead	1.4		0.500	1.89		mg/L		94	75 - 125
Selenium	ND		1.00	0.923		mg/L		92	75 - 125

Lab Sample ID: 480-227437-5 MSD
Matrix: Solid
Analysis Batch: 739639

Client Sample ID: WC-5
Prep Type: TCLP
Prep Batch: 739534

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		1.01	0.926		mg/L		92	75 - 125	0	20
Barium	0.75	J	1.00	1.67		mg/L		92	75 - 125	1	20
Cadmium	0.0033		0.500	0.493		mg/L		98	75 - 125	0	20
Chromium	ND		0.499	0.443		mg/L		89	75 - 125	0	20
Lead	1.4		0.500	1.88		mg/L		92	75 - 125	0	20
Selenium	ND		1.00	0.921		mg/L		92	75 - 125	0	20

Lab Sample ID: LB 480-739479/1-F
Matrix: Solid
Analysis Batch: 739834

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 739680

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0060	0.0017	mg/L		02/27/25 08:36	02/27/25 17:02	1

Lab Sample ID: 480-227437-5 MS
Matrix: Solid
Analysis Batch: 739834

Client Sample ID: WC-5
Prep Type: TCLP
Prep Batch: 739680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.0500	0.0570		mg/L		114	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-227437-5 MSD — **Client Sample ID: WC-5**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 739834 — **Prep Batch: 739680**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		0.0500	0.0575		mg/L		115	75 - 125	1	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-739540/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 739590 — **Prep Batch: 739540**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/25/25 09:49	02/25/25 13:29	1

Lab Sample ID: LCS 480-739540/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 739590 — **Prep Batch: 739540**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00670	0.00575		mg/L		86	80 - 120

Lab Sample ID: LB 480-739479/1-C — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 739590 — **Prep Batch: 739540**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/25/25 09:49	02/25/25 13:28	1

Lab Sample ID: 480-227437-5 MS — **Client Sample ID: WC-5**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 739590 — **Prep Batch: 739540**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00670	0.00623		mg/L		93	80 - 120

Lab Sample ID: 480-227437-5 MSD — **Client Sample ID: WC-5**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 739590 — **Prep Batch: 739540**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00670	0.00615		mg/L		92	80 - 120	1	20

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-739409/1 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 739409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-739517/1-A
Matrix: Solid
Analysis Batch: 739604

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		02/24/25 14:10	02/25/25 12:23	1

Lab Sample ID: LCS 480-739517/2-A
Matrix: Solid
Analysis Batch: 739604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Reactive	1000	525.8		mg/Kg		53	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-739518/1-A
Matrix: Solid
Analysis Batch: 739587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		02/24/25 14:10	02/25/25 12:52	1

Lab Sample ID: LCS 480-739518/2-A
Matrix: Solid
Analysis Batch: 739587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	580	140.3		mg/Kg		24	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-739566/1
Matrix: Solid
Analysis Batch: 739566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

GC/MS VOA

Leach Batch: 739480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	1311	
480-227437-2	WC-2	TCLP	Solid	1311	
480-227437-3	WC-3	TCLP	Solid	1311	
480-227437-4	WC-4	TCLP	Solid	1311	
480-227437-5	WC-5	TCLP	Solid	1311	
LB 480-739480/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 739559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	8260C	739480
480-227437-2	WC-2	TCLP	Solid	8260C	739480
480-227437-3	WC-3	TCLP	Solid	8260C	739480
480-227437-4	WC-4	TCLP	Solid	8260C	739480
480-227437-5	WC-5	TCLP	Solid	8260C	739480
LB 480-739480/1-A	Method Blank	TCLP	Solid	8260C	739480
MB 480-739559/8	Method Blank	Total/NA	Solid	8260C	
LCS 480-739559/9	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 480-739559/33	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 739479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	1311	
480-227437-2	WC-2	TCLP	Solid	1311	
480-227437-3	WC-3	TCLP	Solid	1311	
480-227437-4	WC-4	TCLP	Solid	1311	
480-227437-5	WC-5	TCLP	Solid	1311	
LB 480-739479/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 739575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	3510C	739479
480-227437-2	WC-2	TCLP	Solid	3510C	739479
480-227437-3	WC-3	TCLP	Solid	3510C	739479
480-227437-4	WC-4	TCLP	Solid	3510C	739479
480-227437-5	WC-5	TCLP	Solid	3510C	739479
LB 480-739479/1-D	Method Blank	TCLP	Solid	3510C	739479
MB 480-739575/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-739575/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-739575/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 739640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	8270D	739575
480-227437-2	WC-2	TCLP	Solid	8270D	739575
480-227437-3	WC-3	TCLP	Solid	8270D	739575
480-227437-4	WC-4	TCLP	Solid	8270D	739575
480-227437-5	WC-5	TCLP	Solid	8270D	739575
LB 480-739479/1-D	Method Blank	TCLP	Solid	8270D	739575
MB 480-739575/1-A	Method Blank	Total/NA	Solid	8270D	739575

GC/MS Semi VOA (Continued)

Analysis Batch: 739640 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-739575/2-A	Lab Control Sample	Total/NA	Solid	8270D	739575
LCSD 480-739575/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	739575

GC Semi VOA

Prep Batch: 739622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	Total/NA	Solid	3550C	
480-227437-2	WC-2	Total/NA	Solid	3550C	
480-227437-3	WC-3	Total/NA	Solid	3550C	
480-227437-4	WC-4	Total/NA	Solid	3550C	
480-227437-5	WC-5	Total/NA	Solid	3550C	
MB 480-739622/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739622/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227437-1 MS	WC-1	Total/NA	Solid	3550C	
480-227437-1 MSD	WC-1	Total/NA	Solid	3550C	

Analysis Batch: 739623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	Total/NA	Solid	8082A	739622
480-227437-2	WC-2	Total/NA	Solid	8082A	739622
480-227437-3	WC-3	Total/NA	Solid	8082A	739622
480-227437-4	WC-4	Total/NA	Solid	8082A	739622
MB 480-739622/1-A	Method Blank	Total/NA	Solid	8082A	739622
LCS 480-739622/2-A	Lab Control Sample	Total/NA	Solid	8082A	739622
480-227437-1 MS	WC-1	Total/NA	Solid	8082A	739622
480-227437-1 MSD	WC-1	Total/NA	Solid	8082A	739622

Analysis Batch: 739747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-5	WC-5	Total/NA	Solid	8082A	739622

Metals

Leach Batch: 739479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	1311	
480-227437-2	WC-2	TCLP	Solid	1311	
480-227437-3	WC-3	TCLP	Solid	1311	
480-227437-4	WC-4	TCLP	Solid	1311	
480-227437-5	WC-5	TCLP	Solid	1311	
LB 480-739479/1-B	Method Blank	TCLP	Solid	1311	
LB 480-739479/1-C	Method Blank	TCLP	Solid	1311	
LB 480-739479/1-F	Method Blank	TCLP	Solid	1311	
480-227437-5 MS	WC-5	TCLP	Solid	1311	
480-227437-5 MSD	WC-5	TCLP	Solid	1311	

Prep Batch: 739534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	3010A	739479
480-227437-2	WC-2	TCLP	Solid	3010A	739479
480-227437-3	WC-3	TCLP	Solid	3010A	739479

Metals (Continued)

Prep Batch: 739534 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-4	WC-4	TCLP	Solid	3010A	739479
480-227437-5	WC-5	TCLP	Solid	3010A	739479
LB 480-739479/1-B	Method Blank	TCLP	Solid	3010A	739479
MB 480-739534/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-739534/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-227437-5 MS	WC-5	TCLP	Solid	3010A	739479
480-227437-5 MSD	WC-5	TCLP	Solid	3010A	739479

Prep Batch: 739540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	7470A	739479
480-227437-2	WC-2	TCLP	Solid	7470A	739479
480-227437-3	WC-3	TCLP	Solid	7470A	739479
480-227437-4	WC-4	TCLP	Solid	7470A	739479
480-227437-5	WC-5	TCLP	Solid	7470A	739479
LB 480-739479/1-C	Method Blank	TCLP	Solid	7470A	739479
MB 480-739540/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-739540/3-A	Lab Control Sample	Total/NA	Solid	7470A	
480-227437-5 MS	WC-5	TCLP	Solid	7470A	739479
480-227437-5 MSD	WC-5	TCLP	Solid	7470A	739479

Analysis Batch: 739590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	7470A	739540
480-227437-2	WC-2	TCLP	Solid	7470A	739540
480-227437-3	WC-3	TCLP	Solid	7470A	739540
480-227437-4	WC-4	TCLP	Solid	7470A	739540
480-227437-5	WC-5	TCLP	Solid	7470A	739540
LB 480-739479/1-C	Method Blank	TCLP	Solid	7470A	739540
MB 480-739540/2-A	Method Blank	Total/NA	Solid	7470A	739540
LCS 480-739540/3-A	Lab Control Sample	Total/NA	Solid	7470A	739540
480-227437-5 MS	WC-5	TCLP	Solid	7470A	739540
480-227437-5 MSD	WC-5	TCLP	Solid	7470A	739540

Analysis Batch: 739639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	6010C	739534
480-227437-2	WC-2	TCLP	Solid	6010C	739534
480-227437-3	WC-3	TCLP	Solid	6010C	739534
480-227437-4	WC-4	TCLP	Solid	6010C	739534
480-227437-5	WC-5	TCLP	Solid	6010C	739534
LB 480-739479/1-B	Method Blank	TCLP	Solid	6010C	739534
MB 480-739534/2-A	Method Blank	Total/NA	Solid	6010C	739534
LCS 480-739534/3-A	Lab Control Sample	Total/NA	Solid	6010C	739534
480-227437-5 MS	WC-5	TCLP	Solid	6010C	739534
480-227437-5 MSD	WC-5	TCLP	Solid	6010C	739534

Prep Batch: 739680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	3010A	739479
480-227437-2	WC-2	TCLP	Solid	3010A	739479

Metals (Continued)

Prep Batch: 739680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-3	WC-3	TCLP	Solid	3010A	739479
480-227437-4	WC-4	TCLP	Solid	3010A	739479
480-227437-5	WC-5	TCLP	Solid	3010A	739479
LB 480-739479/1-F	Method Blank	TCLP	Solid	3010A	739479
MB 480-739680/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-739680/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-227437-5 MS	WC-5	TCLP	Solid	3010A	739479
480-227437-5 MSD	WC-5	TCLP	Solid	3010A	739479

Analysis Batch: 739684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-3	WC-3	TCLP	Solid	6010C	739534

Analysis Batch: 739834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	TCLP	Solid	6010C	739680
480-227437-2	WC-2	TCLP	Solid	6010C	739680
480-227437-3	WC-3	TCLP	Solid	6010C	739680
480-227437-4	WC-4	TCLP	Solid	6010C	739680
480-227437-5	WC-5	TCLP	Solid	6010C	739680
LB 480-739479/1-F	Method Blank	TCLP	Solid	6010C	739680
MB 480-739680/2-A	Method Blank	Total/NA	Solid	6010C	739680
LCS 480-739680/3-A	Lab Control Sample	Total/NA	Solid	6010C	739680
480-227437-5 MS	WC-5	TCLP	Solid	6010C	739680
480-227437-5 MSD	WC-5	TCLP	Solid	6010C	739680

General Chemistry

Analysis Batch: 739381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	Total/NA	Solid	Moisture	
480-227437-2	WC-2	Total/NA	Solid	Moisture	
480-227437-3	WC-3	Total/NA	Solid	Moisture	
480-227437-4	WC-4	Total/NA	Solid	Moisture	
480-227437-5	WC-5	Total/NA	Solid	Moisture	

Analysis Batch: 739409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	Total/NA	Solid	1010A	
480-227437-2	WC-2	Total/NA	Solid	1010A	
480-227437-3	WC-3	Total/NA	Solid	1010A	
480-227437-4	WC-4	Total/NA	Solid	1010A	
480-227437-5	WC-5	Total/NA	Solid	1010A	
LCS 480-739409/1	Lab Control Sample	Total/NA	Solid	1010A	

Prep Batch: 739517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	Total/NA	Solid	7.3.3	
480-227437-2	WC-2	Total/NA	Solid	7.3.3	
480-227437-3	WC-3	Total/NA	Solid	7.3.3	
480-227437-4	WC-4	Total/NA	Solid	7.3.3	

General Chemistry (Continued)

Prep Batch: 739517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-5	WC-5	Total/NA	Solid	7.3.3	
MB 480-739517/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-739517/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 739518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	Total/NA	Solid	7.3.4	
480-227437-2	WC-2	Total/NA	Solid	7.3.4	
480-227437-3	WC-3	Total/NA	Solid	7.3.4	
480-227437-4	WC-4	Total/NA	Solid	7.3.4	
480-227437-5	WC-5	Total/NA	Solid	7.3.4	
MB 480-739518/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-739518/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 739566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	Total/NA	Solid	9045D	
480-227437-2	WC-2	Total/NA	Solid	9045D	
480-227437-3	WC-3	Total/NA	Solid	9045D	
480-227437-4	WC-4	Total/NA	Solid	9045D	
480-227437-5	WC-5	Total/NA	Solid	9045D	
LCS 480-739566/1	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 739587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	Total/NA	Solid	9034	739518
480-227437-2	WC-2	Total/NA	Solid	9034	739518
480-227437-3	WC-3	Total/NA	Solid	9034	739518
480-227437-4	WC-4	Total/NA	Solid	9034	739518
480-227437-5	WC-5	Total/NA	Solid	9034	739518
MB 480-739518/1-A	Method Blank	Total/NA	Solid	9034	739518
LCS 480-739518/2-A	Lab Control Sample	Total/NA	Solid	9034	739518

Analysis Batch: 739604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227437-1	WC-1	Total/NA	Solid	9012	739517
480-227437-2	WC-2	Total/NA	Solid	9012	739517
480-227437-3	WC-3	Total/NA	Solid	9012	739517
480-227437-4	WC-4	Total/NA	Solid	9012	739517
480-227437-5	WC-5	Total/NA	Solid	9012	739517
MB 480-739517/1-A	Method Blank	Total/NA	Solid	9012	739517
LCS 480-739517/2-A	Lab Control Sample	Total/NA	Solid	9012	739517

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-1
Lab Sample ID: 480-227437-1
Date Collected: 02/18/25 13:25
Matrix: Solid
Date Received: 02/20/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			739480	SMP	EET BUF	02/24/25 09:35 - 02/25/25 09:39 [1]
TCLP	Analysis	8260C		10	739559	AXK	EET BUF	02/25/25 16:33
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3510C			739575	LSC	EET BUF	02/25/25 13:30
TCLP	Analysis	8270D		1	739640	JMM	EET BUF	02/26/25 14:22
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3010A			739534	EMO	EET BUF	02/25/25 09:31
TCLP	Analysis	6010C		1	739639	BMB	EET BUF	02/25/25 19:02
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3010A			739680	ET	EET BUF	02/27/25 08:36
TCLP	Analysis	6010C		1	739834	MP	EET BUF	02/27/25 17:12
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	7470A			739540	ESB	EET BUF	02/25/25 09:49
TCLP	Analysis	7470A		1	739590	ESB	EET BUF	02/25/25 13:39
Total/NA	Analysis	1010A		1	739409	KM	EET BUF	02/21/25 09:24
Total/NA	Prep	7.3.3			739517	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9012		1	739604	AM	EET BUF	02/25/25 12:35
Total/NA	Prep	7.3.4			739518	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9034		1	739587	AM	EET BUF	02/25/25 12:52
Total/NA	Analysis	9045D		1	739566	CG	EET BUF	02/25/25 09:45
Total/NA	Analysis	Moisture		1	739381	AF	EET BUF	02/20/25 14:43

Client Sample ID: WC-1
Lab Sample ID: 480-227437-1
Date Collected: 02/18/25 13:25
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739622	SMP	EET BUF	02/26/25 07:09
Total/NA	Analysis	8082A		1	739623	H9RU	EET BUF	02/26/25 14:40

Client Sample ID: WC-2
Lab Sample ID: 480-227437-2
Date Collected: 02/18/25 14:30
Matrix: Solid
Date Received: 02/20/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			739480	SMP	EET BUF	02/24/25 09:35 - 02/25/25 09:39 [1]
TCLP	Analysis	8260C		10	739559	AXK	EET BUF	02/25/25 16:55
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3510C			739575	LSC	EET BUF	02/25/25 13:30
TCLP	Analysis	8270D		1	739640	JMM	EET BUF	02/26/25 14:46
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3010A			739534	EMO	EET BUF	02/25/25 09:31
TCLP	Analysis	6010C		1	739639	BMB	EET BUF	02/25/25 19:04

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-2
Lab Sample ID: 480-227437-2
Date Collected: 02/18/25 14:30
Matrix: Solid
Date Received: 02/20/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3010A			739680	ET	EET BUF	02/27/25 08:36
TCLP	Analysis	6010C		1	739834	MP	EET BUF	02/27/25 17:13
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	7470A			739540	ESB	EET BUF	02/25/25 09:49
TCLP	Analysis	7470A		1	739590	ESB	EET BUF	02/25/25 13:40
Total/NA	Analysis	1010A		1	739409	KM	EET BUF	02/21/25 11:38
Total/NA	Prep	7.3.3			739517	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9012		1	739604	AM	EET BUF	02/25/25 12:35
Total/NA	Prep	7.3.4			739518	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9034		1	739587	AM	EET BUF	02/25/25 12:52
Total/NA	Analysis	9045D		1	739566	CG	EET BUF	02/25/25 09:45
Total/NA	Analysis	Moisture		1	739381	AF	EET BUF	02/20/25 14:43

Client Sample ID: WC-2
Lab Sample ID: 480-227437-2
Date Collected: 02/18/25 14:30
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739622	SMP	EET BUF	02/26/25 07:09
Total/NA	Analysis	8082A		1	739623	H9RU	EET BUF	02/26/25 14:58

Client Sample ID: WC-3
Lab Sample ID: 480-227437-3
Date Collected: 02/18/25 13:00
Matrix: Solid
Date Received: 02/20/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			739480	SMP	EET BUF	02/24/25 09:35 - 02/25/25 09:39 [1]
TCLP	Analysis	8260C		10	739559	AXK	EET BUF	02/25/25 17:17
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3510C			739575	LSC	EET BUF	02/25/25 13:30
TCLP	Analysis	8270D		1	739640	JMM	EET BUF	02/26/25 15:11
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3010A			739534	EMO	EET BUF	02/25/25 09:31
TCLP	Analysis	6010C		1	739639	BMB	EET BUF	02/25/25 19:06
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3010A			739534	EMO	EET BUF	02/25/25 09:31
TCLP	Analysis	6010C		1	739684	BMB	EET BUF	02/26/25 12:20
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3010A			739680	ET	EET BUF	02/27/25 08:36
TCLP	Analysis	6010C		1	739834	MP	EET BUF	02/27/25 17:15
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	7470A			739540	ESB	EET BUF	02/25/25 09:49
TCLP	Analysis	7470A		1	739590	ESB	EET BUF	02/25/25 13:41
Total/NA	Analysis	1010A		1	739409	KM	EET BUF	02/21/25 11:38

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-3
Lab Sample ID: 480-227437-3
Date Collected: 02/18/25 13:00
Matrix: Solid
Date Received: 02/20/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.3			739517	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9012		1	739604	AM	EET BUF	02/25/25 12:35
Total/NA	Prep	7.3.4			739518	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9034		1	739587	AM	EET BUF	02/25/25 12:52
Total/NA	Analysis	9045D		1	739566	CG	EET BUF	02/25/25 09:45
Total/NA	Analysis	Moisture		1	739381	AF	EET BUF	02/20/25 14:43

Client Sample ID: WC-3
Lab Sample ID: 480-227437-3
Date Collected: 02/18/25 13:00
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739622	SMP	EET BUF	02/26/25 07:09
Total/NA	Analysis	8082A		1	739623	H9RU	EET BUF	02/26/25 15:16

Client Sample ID: WC-4
Lab Sample ID: 480-227437-4
Date Collected: 02/18/25 14:00
Matrix: Solid
Date Received: 02/20/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			739480	SMP	EET BUF	02/24/25 09:35 - 02/25/25 09:39 [1]
TCLP	Analysis	8260C		10	739559	AXK	EET BUF	02/25/25 17:40
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3510C			739575	LSC	EET BUF	02/25/25 13:30
TCLP	Analysis	8270D		1	739640	JMM	EET BUF	02/26/25 15:35
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3010A			739534	EMO	EET BUF	02/25/25 09:31
TCLP	Analysis	6010C		1	739639	BMB	EET BUF	02/25/25 19:14
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3010A			739680	ET	EET BUF	02/27/25 08:36
TCLP	Analysis	6010C		1	739834	MP	EET BUF	02/27/25 17:17
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	7470A			739540	ESB	EET BUF	02/25/25 09:49
TCLP	Analysis	7470A		1	739590	ESB	EET BUF	02/25/25 13:42
Total/NA	Analysis	1010A		1	739409	KM	EET BUF	02/21/25 11:38
Total/NA	Prep	7.3.3			739517	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9012		1	739604	AM	EET BUF	02/25/25 12:36
Total/NA	Prep	7.3.4			739518	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9034		1	739587	AM	EET BUF	02/25/25 12:52
Total/NA	Analysis	9045D		1	739566	CG	EET BUF	02/25/25 09:45
Total/NA	Analysis	Moisture		1	739381	AF	EET BUF	02/20/25 14:43

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Client Sample ID: WC-4
Lab Sample ID: 480-227437-4
Date Collected: 02/18/25 14:00
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739622	SMP	EET BUF	02/26/25 07:09
Total/NA	Analysis	8082A		1	739623	H9RU	EET BUF	02/26/25 15:35

Client Sample ID: WC-5
Lab Sample ID: 480-227437-5
Date Collected: 02/18/25 09:00
Matrix: Solid
Date Received: 02/20/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			739480	SMP	EET BUF	02/24/25 09:35 - 02/25/25 09:39 [1]
TCLP	Analysis	8260C		10	739559	AXK	EET BUF	02/25/25 18:02
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3510C			739575	LSC	EET BUF	02/25/25 13:30
TCLP	Analysis	8270D		1	739640	JMM	EET BUF	02/26/25 16:00
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3010A			739534	EMO	EET BUF	02/25/25 09:31
TCLP	Analysis	6010C		1	739639	BMB	EET BUF	02/25/25 19:16
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	3010A			739680	ET	EET BUF	02/27/25 08:36
TCLP	Analysis	6010C		1	739834	MP	EET BUF	02/27/25 17:31
TCLP	Leach	1311			739479	SMP	EET BUF	02/24/25 09:31 - 02/25/25 08:52 [1]
TCLP	Prep	7470A			739540	ESB	EET BUF	02/25/25 09:49
TCLP	Analysis	7470A		1	739590	ESB	EET BUF	02/25/25 13:44
Total/NA	Analysis	1010A		1	739409	KM	EET BUF	02/21/25 11:38
Total/NA	Prep	7.3.3			739517	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9012		1	739604	AM	EET BUF	02/25/25 12:36
Total/NA	Prep	7.3.4			739518	GW	EET BUF	02/24/25 14:10
Total/NA	Analysis	9034		1	739587	AM	EET BUF	02/25/25 12:52
Total/NA	Analysis	9045D		1	739566	CG	EET BUF	02/25/25 09:45
Total/NA	Analysis	Moisture		1	739381	AF	EET BUF	02/20/25 14:43

Client Sample ID: WC-5
Lab Sample ID: 480-227437-5
Date Collected: 02/18/25 09:00
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739622	SMP	EET BUF	02/26/25 07:09
Total/NA	Analysis	8082A		1	739747	H9RU	EET BUF	02/27/25 09:51

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Method	Method Description	Protocol	Laboratory
8260C	TCLP Volatiles	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7470A	TCLP Mercury	SW846	EET BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	EET BUF
9012	Cyanide, Reactive	SW846	EET BUF
9034	Sulfide, Reactive	SW846	EET BUF
9045D	pH	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1311	TCLP Extraction	SW846	EET BUF
3010A	Preparation, Total Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7.3.3	Cyanide, Reactive	SW846	EET BUF
7.3.4	Sulfide, Reactive	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227437-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227437-1	WC-1	Solid	02/18/25 13:25	02/20/25 09:00
480-227437-2	WC-2	Solid	02/18/25 14:30	02/20/25 09:00
480-227437-3	WC-3	Solid	02/18/25 13:00	02/20/25 09:00
480-227437-4	WC-4	Solid	02/18/25 14:00	02/20/25 09:00
480-227437-5	WC-5	Solid	02/18/25 09:00	02/20/25 09:00

Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Nick Sorace	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-202116-41517.3
Client Contact: Bryan Mayback	Phone: 716-713-3437	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 3 of 9
Company: Roux Environmental Engineering and Geology DPC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: Standard			Preservation Codes: N - None
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested 4375.0002			
Email: bmayback@rouxinc.com	WO #:			Other:
Project Name: North Aud Block - soil	Project #: 48028442			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - (MOD) TCL + TICs + DL MW4.2 TCLP VOC's	1600 - 4633 Standard List of 40 TCLP Metals	8082A, 8151A PCB's	6010C, 7471B Ignitability	8081B, 8270D Corrosivity	Reactivity	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N			
WC-1	2/18/25	1325	G	Solid			X	X	X	X	X	X		
WC-2	↓	1430	6	Solid			X	X	X	X	X	X		
WC-3		1300		Solid			X	X	X	X	X	X		
WC-4		1400		Solid			X	X	X	X	X	X		
WC-5		9:00		Solid			X	X	X	X	X	X		
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

480-227437 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYSDec equiv

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 2/18/25 1410	Company	Received by:	Date/Time: 2/19/25 1410	Company EET
Relinquished by:	Date/Time: 2/20/25 0900	Company EET	Received by:	Date/Time: 2-20-25 900	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0 ICE IR ISC

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-227437-1

Login Number: 227437

List Source: Eurofins Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 ICE IR# SC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Roux
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

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JOB DESCRIPTION

North Aud Block

JOB NUMBER

480-227439-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

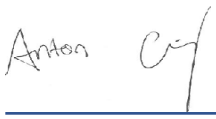
my EOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 11
Surrogate Summary 24
Isotope Dilution Summary 26
QC Sample Results 27
QC Association Summary 54
Lab Chronicle 57
Certification Summary 59
Method Summary 60
Sample Summary 61
Chain of Custody 62
Receipt Checklists 65

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-227439-1 Eurofins Buffalo

Job Narrative
480-227439-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/20/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-739516 recovered above the upper control limit for 4-Methyl-2-pentanone (MIBK). The sample associated with this CCV was non-detect for the affected analyte; therefore, the data has been reported. The associated sample is impacted: RISB-7 4-8 Ft (480-227439-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to color, appearance, and viscosity: RISB-4 0-2 Ft (480-227439-1), RISB-4 0-2 Ft (480-227439-1[MS]) and RISB-4 0-2 Ft (480-227439-1[MSD]). Elevated reporting limits (RL) are provided.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-739521 and analytical batch 480-739577 were diluted below the method detection limit (MDL) for 2,4-Dinitrophenol; therefore, percent recovery and RPD could not be calculated. The associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-739521 and analytical batch 480-739577 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-739521 and analytical batch 480-739577 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: The following sample: RISB-4 0-2 Ft (480-227439-1[MS]) was decanted prior to preparation .

Method 8081B: The following sample(s) required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: RISB-4 0-2 Ft (480-227439-1), RISB-7 4-8 Ft (480-227439-2), Blind duplicate-2 (480-227439-3), RISB-4 0-2 Ft (480-227439-1[MS]) and RISB-4 0-2 Ft (480-227439-1[MSD]).

Method 8081B: The following samples were diluted due to the nature of the sample matrix: RISB-4 0-2 Ft (480-227439-1), RISB-7 4-8 Ft (480-227439-2) and Blind duplicate-2 (480-227439-3). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Job ID: 480-227439-1 (Continued) Eurofins Buffalo

Method 8081B: The following samples were diluted due to the nature of the sample matrix: RISB-4 0-2 Ft (480-227439-1[MS]) and RISB-4 0-2 Ft (480-227439-1[MSD]). As such, spike and surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: The surrogate recovery for the blank associated with preparation batch 480-739670 and analytical batch 480-739745 was outside the upper control limits. All associated samples were non detect, therefore the data has been reported. RISB-4 0-2 Ft (480-227439-1), RISB-7 4-8 Ft (480-227439-2) and Blind duplicate-2 (480-227439-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227439-1
Project/Site: North Aud Block

Client Sample ID: RISB-4 0-2 Ft
Lab Sample ID: 480-227439-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	180	J	910	180	ug/Kg	5	☼	8270D	Total/NA
Anthracene	270	J F1 F2	910	220	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	850	J F1 F2	910	91	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	820	J F1 F2	910	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	920	F1 F2	910	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	570	J F1 F2	910	96	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	440	J F1 F2	910	120	ug/Kg	5	☼	8270D	Total/NA
Carbazole	160	J	910	110	ug/Kg	5	☼	8270D	Total/NA
Chrysene	930	F1 F2	910	200	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	160	J F1 F2	910	160	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1700	F1 F2	910	96	ug/Kg	5	☼	8270D	Total/NA
Fluorene	110	J	910	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	440	J F1 F2	910	110	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	170	J	910	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	1300	F1 F2	910	130	ug/Kg	5	☼	8270D	Total/NA
Pyrene	1500	F1 F2	910	110	ug/Kg	5	☼	8270D	Total/NA
Aluminum	9910		11.0	9.5	mg/Kg	1	☼	6010C	Total/NA
Arsenic	8.8		2.2	0.97	mg/Kg	1	☼	6010C	Total/NA
Barium	51.2		0.55	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.43		0.22	0.044	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.30		0.22	0.077	mg/Kg	1	☼	6010C	Total/NA
Calcium	18100	F2 F1	55.0	29.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	11.2		0.55	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.0		0.55	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	19.0	F2 F1	1.1	0.63	mg/Kg	1	☼	6010C	Total/NA
Iron	11900		11.0	9.3	mg/Kg	1	☼	6010C	Total/NA
Lead	129	F2 F1	1.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Magnesium	8930	F2 F1	22.0	9.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	259	F2 F1	1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.7		5.5	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	1790		33.0	26.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	151	J	154	67.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	20.3		0.55	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	92.7	F1	2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.41	F1	0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: RISB-7 4-8 Ft
Lab Sample ID: 480-227439-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	33	J	58	9.8	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	2.6	J	12	1.6	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	41	J	200	29	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	37	J	200	26	ug/Kg	1	☼	8270D	Total/NA
Anthracene	140	J	200	50	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	440		200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	430		200	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	480		200	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	220		200	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	250		200	26	ug/Kg	1	☼	8270D	Total/NA
Carbazole	52	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Chrysene	440		200	45	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: RISB-7 4-8 Ft (Continued)
Lab Sample ID: 480-227439-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	79	J	200	35	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	37	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1000		200	21	ug/Kg	1	☼	8270D	Total/NA
Fluorene	52	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	190	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	670		200	29	ug/Kg	1	☼	8270D	Total/NA
Pyrene	830		200	24	ug/Kg	1	☼	8270D	Total/NA
Perfluoropentanoic acid (PFPeA)	0.10	J	0.30	0.075	ug/Kg	1	☼	1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.057	J	0.15	0.037	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.057	J	0.15	0.037	ug/Kg	1	☼	1633	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.041	J	0.15	0.037	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.16		0.15	0.037	ug/Kg	1	☼	1633	Total/NA
Aluminum	6880		11.5	9.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	8.0		2.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	49.8		0.58	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.43		0.23	0.046	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.21	J	0.23	0.081	mg/Kg	1	☼	6010C	Total/NA
Calcium	159000		288	156	mg/Kg	5	☼	6010C	Total/NA
Chromium	12.5		0.58	0.42	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.1		0.58	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	23.4		1.2	0.66	mg/Kg	1	☼	6010C	Total/NA
Iron	11800		11.5	9.8	mg/Kg	1	☼	6010C	Total/NA
Lead	86.1		1.2	0.53	mg/Kg	1	☼	6010C	Total/NA
Magnesium	12200		23.1	9.8	mg/Kg	1	☼	6010C	Total/NA
Manganese	310		1.2	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	13.8		5.8	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	1880		34.6	28.0	mg/Kg	1	☼	6010C	Total/NA
Sodium	268		161	70.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	14.2		0.58	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	65.5		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.28		0.025	0.0057	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Blind duplicate-2
Lab Sample ID: 480-227439-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	140	J	200	29	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	47	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Anthracene	440		200	48	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	760		200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	660		200	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	750		200	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	340		200	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	400		200	25	ug/Kg	1	☼	8270D	Total/NA
Carbazole	82	J	200	23	ug/Kg	1	☼	8270D	Total/NA
Chrysene	730		200	44	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	130	J	200	35	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	170	J	200	23	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1700		200	21	ug/Kg	1	☼	8270D	Total/NA
Fluorene	280		200	23	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	330		200	24	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1500		200	29	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Blind duplicate-2 (Continued)
Lab Sample ID: 480-227439-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	1300		200	23	ug/Kg	1	☼	8270D	Total/NA
Aluminum	9480		11.5	9.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.9		2.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	65.1		0.58	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.47		0.23	0.046	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.32		0.23	0.081	mg/Kg	1	☼	6010C	Total/NA
Calcium	65700		57.5	31.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	13.9		0.58	0.41	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.8		0.58	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	27.4		1.2	0.66	mg/Kg	1	☼	6010C	Total/NA
Iron	13300		11.5	9.8	mg/Kg	1	☼	6010C	Total/NA
Lead	94.2		1.2	0.53	mg/Kg	1	☼	6010C	Total/NA
Magnesium	15500		23.0	9.8	mg/Kg	1	☼	6010C	Total/NA
Manganese	335		1.2	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	13.3		5.8	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	2290		34.5	27.9	mg/Kg	1	☼	6010C	Total/NA
Sodium	289		161	70.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	20.0		0.58	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	88.4		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.14		0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227439-1
Project/Site: North Aud Block

Client Sample ID: RISB-4 0-2 Ft
Lab Sample ID: 480-227439-1
Date Collected: 02/17/25 12:00
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 92.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		910	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
bis (2-chloroisopropyl) ether	ND		910	180	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2,4,5-Trichlorophenol	ND		910	250	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2,4,6-Trichlorophenol	ND		910	180	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2,4-Dichlorophenol	ND		910	96	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2,4-Dimethylphenol	ND		910	220	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2,4-Dinitrophenol	ND		8800	4200	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2,4-Dinitrotoluene	ND		910	190	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2,6-Dinitrotoluene	ND		910	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2-Chloronaphthalene	ND		910	150	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
1,4-Dioxane	ND		530	290	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2-Chlorophenol	ND		1800	170	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2-Methylnaphthalene	**180**	**J**	910	180	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2-Methylphenol	ND		910	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2-Nitroaniline	ND		1800	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
2-Nitrophenol	ND		910	260	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
3,3'-Dichlorobenzidine	ND		1800	1100	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
3-Nitroaniline	ND		1800	250	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
4,6-Dinitro-2-methylphenol	ND	F2	1800	910	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
4-Bromophenyl phenyl ether	ND		910	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
4-Chloro-3-methylphenol	ND		910	220	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
4-Chloroaniline	ND		910	220	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
4-Chlorophenyl phenyl ether	ND		910	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
4-Methylphenol	ND		1800	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
4-Nitroaniline	ND		1800	470	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
4-Nitrophenol	ND		1800	630	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Acenaphthene	ND		910	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Acenaphthylene	ND	F1 F2	910	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Acetophenone	ND		910	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Anthracene	**270**	**J F1 F2**	910	220	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Atrazine	ND		910	310	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Benzaldehyde	ND		910	720	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Benzo[a]anthracene	**850**	**J F1 F2**	910	91	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Benzo[a]pyrene	**820**	**J F1 F2**	910	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Benzo[b]fluoranthene	**920**	**F1 F2**	910	140	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Benzo[g,h,i]perylene	**570**	**J F1 F2**	910	96	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Benzo[k]fluoranthene	**440**	**J F1 F2**	910	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Bis(2-chloroethoxy)methane	ND		910	190	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Bis(2-chloroethyl)ether	ND		910	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Bis(2-ethylhexyl) phthalate	ND		910	310	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Butyl benzyl phthalate	ND		910	150	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Caprolactam	ND		910	270	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Carbazole	**160**	**J**	910	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Chrysene	**930**	**F1 F2**	910	200	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Di-n-butyl phthalate	ND		910	150	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Di-n-octyl phthalate	ND		910	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Dibenz(a,h)anthracene	**160**	**J F1 F2**	910	160	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Dibenzofuran	ND		910	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Diethyl phthalate	ND		910	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5

Client Sample ID: RISB-4 0-2 Ft
Lab Sample ID: 480-227439-1
Date Collected: 02/17/25 12:00
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 92.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		910	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Fluoranthene	**1700**	**F1 F2**	910	96	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Fluorene	**110**	**J**	910	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Hexachlorobenzene	ND		910	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Hexachlorobutadiene	ND		910	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Hexachlorocyclopentadiene	ND		910	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Hexachloroethane	ND		910	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Indeno[1,2,3-cd]pyrene	**440**	**J F1 F2**	910	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Isophorone	ND		910	190	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
N-Nitrosodi-n-propylamine	ND		910	150	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
N-Nitrosodiphenylamine	ND		910	740	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Naphthalene	**170**	**J**	910	120	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Nitrobenzene	ND		910	100	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Pentachlorophenol	ND		1800	910	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Phenanthrene	**1300**	**F1 F2**	910	130	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Phenol	ND		910	140	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5
Pyrene	**1500**	**F1 F2**	910	110	ug/Kg	☼	02/25/25 07:05	02/25/25 19:19	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2400*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/25/25 19:19*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*26 - 143*	*02/25/25 07:05*	*02/25/25 19:19*	*5*
2-Fluorobiphenyl	*81*		*50 - 121*	*02/25/25 07:05*	*02/25/25 19:19*	*5*
2-Fluorophenol	*72*		*36 - 120*	*02/25/25 07:05*	*02/25/25 19:19*	*5*
Nitrobenzene-d5	*75*		*40 - 121*	*02/25/25 07:05*	*02/25/25 19:19*	*5*
p-Terphenyl-d14	*87*		*46 - 143*	*02/25/25 07:05*	*02/25/25 19:19*	*5*
Phenol-d5	*79*		*41 - 120*	*02/25/25 07:05*	*02/25/25 19:19*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F1	36	6.9	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
4,4'-DDE	ND	F1	36	7.5	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
4,4'-DDT	ND	F1 F2	36	8.4	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
Aldrin	ND	F1	36	8.8	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
alpha-BHC	ND	F2	36	6.4	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
cis-Chlordane	ND	F1	36	18	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
beta-BHC	ND	F1	36	6.4	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
delta-BHC	ND	F2	36	6.6	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
Dieldrin	ND	F1	36	8.6	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
Endosulfan I	ND	F1	36	6.9	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
Endosulfan II	ND	F2	36	6.4	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
Endosulfan sulfate	ND	F1	36	6.7	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
Endrin	ND	F1	36	7.1	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
Endrin aldehyde	ND	F1	36	9.1	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
Endrin ketone	ND	F1	36	8.8	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
gamma-BHC (Lindane)	ND	F1 F2	36	6.6	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
trans-Chlordane	ND	F1	36	11	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
Heptachlor	ND	F1	36	7.7	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
Heptachlor epoxide	ND	F1	36	9.2	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20

Client Sample ID: RISB-4 0-2 Ft
Lab Sample ID: 480-227439-1

Date Collected: 02/17/25 12:00
Matrix: Solid

Date Received: 02/20/25 09:00
Percent Solids: 92.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND	F2	36	7.3	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20
Toxaphene	ND		360	210	ug/Kg	☼	02/26/25 10:29	02/27/25 11:59	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*138*	*S1+*	*45 - 120*	*02/26/25 10:29*	*02/27/25 11:59*	*20*
DCB Decachlorobiphenyl	*106*		*45 - 120*	*02/26/25 10:29*	*02/27/25 11:59*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*02/26/25 10:29*	*02/27/25 11:59*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*02/26/25 10:29*	*02/27/25 11:59*	*20*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9910**		11.0	9.5	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Antimony	ND		16.5	0.58	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Arsenic	**8.8**		2.2	0.97	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Barium	**51.2**		0.55	0.15	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Beryllium	**0.43**		0.22	0.044	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Cadmium	**0.30**		0.22	0.077	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Calcium	**18100**	**F2 F1**	55.0	29.7	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Chromium	**11.2**		0.55	0.40	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Cobalt	**5.0**		0.55	0.11	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Copper	**19.0**	**F2 F1**	1.1	0.63	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Iron	**11900**		11.0	9.3	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Lead	**129**	**F2 F1**	1.1	0.51	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Magnesium	**8930**	**F2 F1**	22.0	9.3	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Manganese	**259**	**F2 F1**	1.1	0.31	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Nickel	**12.7**		5.5	0.27	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Potassium	**1790**		33.0	26.7	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Selenium	ND		4.4	0.88	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Silver	ND		0.66	0.22	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Sodium	**151**	**J**	154	67.4	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Thallium	ND		6.6	0.84	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Vanadium	**20.3**		0.55	0.14	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1
Zinc	**92.7**	**F1**	2.2	1.1	mg/Kg	☼	02/20/25 14:28	02/21/25 12:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.41**	**F1**	0.022	0.0050	mg/Kg	☼	02/21/25 08:37	02/21/25 10:38	1

Client Sample ID: RISB-7 4-8 Ft
Lab Sample ID: 480-227439-2
Date Collected: 02/19/25 12:45
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 84.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		12	0.84	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,1,2,2-Tetrachloroethane	ND		12	1.9	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	2.6	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,1,2-Trichloroethane	ND		12	1.5	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,1-Dichloroethane	ND		12	1.4	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,1-Dichloroethene	ND		12	1.4	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,2,4-Trichlorobenzene	ND		12	0.70	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,2,4-Trimethylbenzene	ND		12	2.2	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,2-Dibromo-3-Chloropropane	ND		12	5.8	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,2-Dichlorobenzene	ND		12	0.91	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,2-Dichloroethane	ND		12	0.58	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,2-Dichloropropane	ND		12	5.8	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,3,5-Trimethylbenzene	ND		12	0.75	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,3-Dichlorobenzene	ND		12	0.60	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,4-Dichlorobenzene	ND		12	1.6	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
2-Butanone (MEK)	ND		58	4.2	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
2-Hexanone	ND		58	5.8	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
4-Isopropyltoluene	ND		12	0.93	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
4-Methyl-2-pentanone (MIBK)	ND		58	3.8	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Acetone	**33**	**J**	58	9.8	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Benzene	ND		12	0.57	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Bromoform	ND		12	5.8	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Bromomethane	ND		12	1.0	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Carbon disulfide	ND		12	5.8	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Carbon tetrachloride	ND		12	1.1	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Chlorobenzene	ND		12	1.5	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Dibromochloromethane	ND		12	1.5	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Chloroethane	ND		12	2.6	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Chloroform	ND		12	0.72	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Chloromethane	ND		12	0.70	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
cis-1,2-Dichloroethene	ND		12	1.5	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Cyclohexane	ND		12	1.6	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Bromodichloromethane	ND		12	1.6	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Dichlorodifluoromethane	ND		12	0.96	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Ethylbenzene	ND		12	0.80	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
1,2-Dibromoethane	ND		12	1.5	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Isopropylbenzene	ND		12	1.7	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Methyl acetate	ND		58	7.0	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Methyl tert-butyl ether	ND		12	1.1	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Methylcyclohexane	ND		12	1.8	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Methylene Chloride	ND		12	5.3	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
m,p-Xylene	ND		23	1.9	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Naphthalene	**2.6**	**J**	12	1.6	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
n-Butylbenzene	ND		12	1.0	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
N-Propylbenzene	ND		12	0.93	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
o-Xylene	ND		12	1.5	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
sec-Butylbenzene	ND		12	1.0	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Tetrachloroethene	ND		12	1.6	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Toluene	ND		12	0.88	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1

Client Sample ID: RISB-7 4-8 Ft
Lab Sample ID: 480-227439-2

Date Collected: 02/19/25 12:45
Matrix: Solid

Date Received: 02/20/25 09:00
Percent Solids: 84.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		12	1.2	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
trans-1,3-Dichloropropene	ND		12	5.1	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Trichloroethene	ND		12	2.6	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Trichlorofluoromethane	ND		12	1.1	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Vinyl chloride	ND		12	1.4	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Xylenes, Total	ND		23	1.9	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
cis-1,3-Dichloropropene	ND		12	1.7	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
Styrene	ND		12	0.58	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1
tert-Butylbenzene	ND		12	1.2	ug/Kg	☼	02/20/25 10:55	02/24/25 21:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*02/20/25 10:55*	*02/24/25 21:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 126*	*02/20/25 10:55*	*02/24/25 21:22*	*1*
4-Bromofluorobenzene (Surr)	*91*		*72 - 126*	*02/20/25 10:55*	*02/24/25 21:22*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*02/20/25 10:55*	*02/24/25 21:22*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*02/20/25 10:55*	*02/24/25 21:22*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2,4-Dinitrophenol	ND		2000	920	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
1,4-Dioxane	ND		120	65	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2-Chlorophenol	ND		390	37	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2-Methylphenol	ND		200	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
4-Methylphenol	ND		390	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Acenaphthene	**41**	**J**	200	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Acenaphthylene	**37**	**J**	200	26	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Acetophenone	ND		200	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1

Client Sample ID: RISB-7 4-8 Ft
Lab Sample ID: 480-227439-2
Date Collected: 02/19/25 12:45
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 84.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**140**	**J**	200	50	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Atrazine	ND		200	70	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Benzo[a]anthracene	**440**		200	20	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Benzo[a]pyrene	**430**		200	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Benzo[b]fluoranthene	**480**		200	32	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Benzo[g,h,i]perylene	**220**		200	21	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Benzo[k]fluoranthene	**250**		200	26	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Caprolactam	ND		200	60	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Carbazole	**52**	**J**	200	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Chrysene	**440**		200	45	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Dibenz(a,h)anthracene	**79**	**J**	200	35	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Dibenzofuran	**37**	**J**	200	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Fluoranthene	**1000**		200	21	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Fluorene	**52**	**J**	200	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Hexachloroethane	ND		200	26	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Indeno[1,2,3-cd]pyrene	**190**	**J**	200	25	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Isophorone	ND		200	42	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Naphthalene	ND		200	26	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Nitrobenzene	ND		200	22	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Phenanthrene	**670**		200	29	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Phenol	ND		200	31	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1
Pyrene	**830**		200	24	ug/Kg	☼	02/25/25 07:05	02/26/25 00:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2900*	*T J*	*ug/Kg*	☼	*2.00*	*N/A*	*02/25/25 07:05*	*02/26/25 00:37*	*1*
Unknown	*2300*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/26/25 00:37*	*1*
Unknown	*170*	*T J*	*ug/Kg*	☼	*11.56*	*N/A*	*02/25/25 07:05*	*02/26/25 00:37*	*1*
Perylene	*270*	*T J N*	*ug/Kg*	☼	*14.44*	*198-55-0*	*02/25/25 07:05*	*02/26/25 00:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*26 - 143*	*02/25/25 07:05*	*02/26/25 00:37*	*1*
2-Fluorobiphenyl	*61*		*50 - 121*	*02/25/25 07:05*	*02/26/25 00:37*	*1*
2-Fluorophenol	*53*		*36 - 120*	*02/25/25 07:05*	*02/26/25 00:37*	*1*
Nitrobenzene-d5	*58*		*40 - 121*	*02/25/25 07:05*	*02/26/25 00:37*	*1*
p-Terphenyl-d14	*63*		*46 - 143*	*02/25/25 07:05*	*02/26/25 00:37*	*1*

Client Sample ID: RISB-7 4-8 Ft
Lab Sample ID: 480-227439-2

Date Collected: 02/19/25 12:45
Matrix: Solid

Date Received: 02/20/25 09:00
Percent Solids: 84.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5	*57*		*41 - 120*	*02/25/25 07:05*	*02/26/25 00:37*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		19	3.8	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
4,4'-DDE	ND		19	4.1	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
4,4'-DDT	ND		19	4.5	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Aldrin	ND		19	4.8	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
alpha-BHC	ND		19	3.5	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
cis-Chlordane	ND		19	9.7	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
beta-BHC	ND		19	3.5	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
delta-BHC	ND		19	3.6	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Dieldrin	ND		19	4.7	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Endosulfan I	ND		19	3.7	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Endosulfan II	ND		19	3.5	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Endosulfan sulfate	ND		19	3.6	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Endrin	ND		19	3.8	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Endrin aldehyde	ND		19	5.0	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Endrin ketone	ND		19	4.8	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
gamma-BHC (Lindane)	ND		19	3.6	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
trans-Chlordane	ND		19	6.2	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Heptachlor	ND		19	4.2	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Heptachlor epoxide	ND		19	5.0	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Methoxychlor	ND		19	4.0	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10
Toxaphene	ND		190	110	ug/Kg	☼	02/26/25 10:29	02/27/25 12:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*119*		*45 - 120*	*02/26/25 10:29*	*02/27/25 12:19*	*10*
DCB Decachlorobiphenyl	*388*	*S1+*	*45 - 120*	*02/26/25 10:29*	*02/27/25 12:19*	*10*
Tetrachloro-m-xylene	*79*		*30 - 124*	*02/26/25 10:29*	*02/27/25 12:19*	*10*
Tetrachloro-m-xylene	*107*		*30 - 124*	*02/26/25 10:29*	*02/27/25 12:19*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.055	mg/Kg	☼	02/26/25 07:09	02/26/25 16:11	1
PCB-1221	ND		0.28	0.055	mg/Kg	☼	02/26/25 07:09	02/26/25 16:11	1
PCB-1232	ND		0.28	0.055	mg/Kg	☼	02/26/25 07:09	02/26/25 16:11	1
PCB-1242	ND		0.28	0.055	mg/Kg	☼	02/26/25 07:09	02/26/25 16:11	1
PCB-1248	ND		0.28	0.055	mg/Kg	☼	02/26/25 07:09	02/26/25 16:11	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	02/26/25 07:09	02/26/25 16:11	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	02/26/25 07:09	02/26/25 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*60 - 154*	*02/26/25 07:09*	*02/26/25 16:11*	*1*
Tetrachloro-m-xylene	*105*		*60 - 154*	*02/26/25 07:09*	*02/26/25 16:11*	*1*
DCB Decachlorobiphenyl	*101*		*65 - 174*	*02/26/25 07:09*	*02/26/25 16:11*	*1*
DCB Decachlorobiphenyl	*105*		*65 - 174*	*02/26/25 07:09*	*02/26/25 16:11*	*1*

Client Sample ID: RISB-7 4-8 Ft
Lab Sample ID: 480-227439-2
Date Collected: 02/19/25 12:45
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 84.6

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.2	ug/Kg	☼	02/24/25 06:56	02/26/25 15:56	1
Silvex (2,4,5-TP)	ND		20	7.0	ug/Kg	☼	02/24/25 06:56	02/26/25 15:56	1
2,4-D	ND		20	12	ug/Kg	☼	02/24/25 06:56	02/26/25 15:56	1
Dichlorprop	ND		20	9.7	ug/Kg	☼	02/24/25 06:56	02/26/25 15:56	1
Pentachlorophenol	ND		20	6.4	ug/Kg	☼	02/24/25 06:56	02/26/25 15:56	1
Picloram	ND		20	8.4	ug/Kg	☼	02/24/25 06:56	02/26/25 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*02/24/25 06:56*	*02/26/25 15:56*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*02/24/25 06:56*	*02/26/25 15:56*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.60	0.15	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluoropentanoic acid (PFPeA)	**0.10**	**J**	0.30	0.075	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorohexanoic acid (PFHxA)	**0.057**	**J**	0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluoroheptanoic acid (PFHpA)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorooctanoic acid (PFOA)	**0.057**	**J**	0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorononanoic acid (PFNA)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorodecanoic acid (PFDA)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluoroundecanoic acid (PFUnA)	**0.041**	**J**	0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorododecanoic acid (PFDoA)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorooctanesulfonic acid (PFOS)	**0.16**		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorononanesulfonic acid (PFNS)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.60	0.15	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.60	0.15	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.60	0.15	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.5	0.37	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1

Client Sample ID: RISB-7 4-8 Ft
Lab Sample ID: 480-227439-2
Date Collected: 02/19/25 12:45
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 84.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.5	0.37	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.60	0.15	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.60	0.15	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.30	0.075	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.30	0.075	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.60	0.15	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.60	0.15	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.30	0.075	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.75	0.19	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.7	0.93	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.7	0.93	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.15	0.037	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.30	0.075	ug/Kg	☼	02/25/25 12:16	02/26/25 13:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94.5*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C5 PFPeA	*97.0*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C5 PFHxA	*95.9*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C4 PFHpA	*92.8*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C8 PFOA	*85.6*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C9 PFNA	*91.4*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C6 PFDA	*91.6*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C7 PFUnA	*91.1*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C2 PFTeDA	*76.7*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C3 PFBS	*86.7*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C3 PFHxS	*82.5*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C8 PFOS	*88.7*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C8 PFOSA	*91.2*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
d3-NMeFOSAA	*79.2*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
d5-NEtFOSAA	*79.4*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
M2-4:2 FTS	*93.1*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
M2-6:2 FTS	*86.7*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
M2-8:2 FTS	*78.9*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C3 HFPO-DA	*96.1*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
d7-N-MeFOSE-M	*65.5*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
d9-N-EtFOSE-M	*45.9*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
d5-NEtPFOSA	*69.7*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
D3-NMeFOSA	*86.7*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*
13C2-PFDoDA	*86.5*		*20 - 150*	*02/25/25 12:16*	*02/26/25 13:41*	*1*

Client Sample ID: RISB-7 4-8 Ft
Lab Sample ID: 480-227439-2

Date Collected: 02/19/25 12:45
Matrix: Solid

Date Received: 02/20/25 09:00
Percent Solids: 84.6

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6880**		11.5	9.9	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Antimony	ND		17.3	0.61	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Arsenic	**8.0**		2.3	1.0	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Barium	**49.8**		0.58	0.16	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Beryllium	**0.43**		0.23	0.046	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Cadmium	**0.21**	**J**	0.23	0.081	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Calcium	**159000**		288	156	mg/Kg	☼	02/20/25 14:28	02/21/25 14:33	5
Chromium	**12.5**		0.58	0.42	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Cobalt	**4.1**		0.58	0.12	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Copper	**23.4**		1.2	0.66	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Iron	**11800**		11.5	9.8	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Lead	**86.1**		1.2	0.53	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Magnesium	**12200**		23.1	9.8	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Manganese	**310**		1.2	0.32	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Nickel	**13.8**		5.8	0.29	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Potassium	**1880**		34.6	28.0	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Selenium	ND		4.6	0.92	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Silver	ND		0.69	0.23	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Sodium	**268**		161	70.7	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Thallium	ND		6.9	0.88	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Vanadium	**14.2**		0.58	0.15	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1
Zinc	**65.5**		2.3	1.2	mg/Kg	☼	02/20/25 14:28	02/21/25 12:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**		0.025	0.0057	mg/Kg	☼	02/21/25 08:37	02/21/25 10:24	1

Client Sample ID: Blind duplicate-2
Lab Sample ID: 480-227439-3

Date Collected: 02/19/25 12:50
Matrix: Solid

Date Received: 02/20/25 09:00
Percent Solids: 86.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
1,4-Dioxane	ND		120	64	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2-Chlorophenol	ND		380	36	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2-Methylphenol	ND		200	23	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
4-Chloroaniline	ND		200	48	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
4-Methylphenol	ND		380	23	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Acenaphthene	**140**	**J**	200	29	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Acenaphthylene	**47**	**J**	200	25	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Acetophenone	ND		200	27	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Anthracene	**440**		200	48	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Atrazine	ND		200	68	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Benzo[a]anthracene	**760**		200	20	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Benzo[a]pyrene	**660**		200	29	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Benzo[b]fluoranthene	**750**		200	31	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Benzo[g,h,i]perylene	**340**		200	21	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Benzo[k]fluoranthene	**400**		200	25	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Caprolactam	ND		200	59	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Carbazole	**82**	**J**	200	23	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Chrysene	**730**		200	44	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Dibenz(a,h)anthracene	**130**	**J**	200	35	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Dibenzofuran	**170**	**J**	200	23	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1

Client Sample ID: Blind duplicate-2
Date Collected: 02/19/25 12:50
Date Received: 02/20/25 09:00

Lab Sample ID: 480-227439-3
Matrix: Solid
Percent Solids: 86.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		200	23	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Fluoranthene	**1700**		200	21	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Fluorene	**280**		200	23	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Hexachloroethane	ND		200	25	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Indeno[1,2,3-cd]pyrene	**330**		200	24	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Isophorone	ND		200	42	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Naphthalene	ND		200	25	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Nitrobenzene	ND		200	22	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Phenanthrene	**1500**		200	29	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Phenol	ND		200	30	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1
Pyrene	**1300**		200	23	ug/Kg	☼	02/25/25 07:05	02/26/25 01:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*7600*	*T J*	*ug/Kg*	☼	*1.99*	*N/A*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
Unknown	*190*	*T J*	*ug/Kg*	☼	*2.73*	*N/A*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
Unknown	*2500*	*T J*	*ug/Kg*	☼	*3.47*	*N/A*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
Anthracene, 2-methyl-	*170*	*T J N*	*ug/Kg*	☼	*11.45*	*613-12-7*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
Anthracene, 9-methyl-	*240*	*T J N*	*ug/Kg*	☼	*11.48*	*779-02-2*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
Unknown	*330*	*T J*	*ug/Kg*	☼	*11.56*	*N/A*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8,10,12,13,15-octaene	*170*	*T J N*	*ug/Kg*	☼	*11.74*	*6572-60-7*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
11H-Benzo[b]fluorene	*160*	*T J N*	*ug/Kg*	☼	*12.60*	*243-17-4*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
Perylene	*390*	*T J N*	*ug/Kg*	☼	*14.44*	*198-55-0*	*02/25/25 07:05*	*02/26/25 01:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*26 - 143*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
2-Fluorobiphenyl	*89*		*50 - 121*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
2-Fluorophenol	*73*		*36 - 120*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
Nitrobenzene-d5	*80*		*40 - 121*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
p-Terphenyl-d14	*83*		*46 - 143*	*02/25/25 07:05*	*02/26/25 01:03*	*1*
Phenol-d5	*79*		*41 - 120*	*02/25/25 07:05*	*02/26/25 01:03*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		19	3.8	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
4,4'-DDE	ND		19	4.1	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
4,4'-DDT	ND		19	4.5	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
Aldrin	ND		19	4.8	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
alpha-BHC	ND		19	3.5	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
cis-Chlordane	ND		19	9.6	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
beta-BHC	ND		19	3.5	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
delta-BHC	ND		19	3.6	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
Dieldrin	ND		19	4.6	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
Endosulfan I	ND		19	3.7	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10

Client Sample ID: Blind duplicate-2
Lab Sample ID: 480-227439-3

Date Collected: 02/19/25 12:50
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 86.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND		19	3.5	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
Endosulfan sulfate	ND		19	3.6	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
Endrin	ND		19	3.8	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
Endrin aldehyde	ND		19	4.9	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
Endrin ketone	ND		19	4.8	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
gamma-BHC (Lindane)	ND		19	3.5	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
trans-Chlordane	ND		19	6.1	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
Heptachlor	ND		19	4.2	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
Heptachlor epoxide	ND		19	5.0	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
Methoxychlor	ND		19	3.9	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10
Toxaphene	ND		190	110	ug/Kg	☼	02/26/25 10:29	02/27/25 12:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*45 - 120*	*02/26/25 10:29*	*02/27/25 12:38*	*10*
DCB Decachlorobiphenyl	*210*	*S1+*	*45 - 120*	*02/26/25 10:29*	*02/27/25 12:38*	*10*
Tetrachloro-m-xylene	*80*		*30 - 124*	*02/26/25 10:29*	*02/27/25 12:38*	*10*
Tetrachloro-m-xylene	*85*		*30 - 124*	*02/26/25 10:29*	*02/27/25 12:38*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9480**		11.5	9.9	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Antimony	ND		17.3	0.61	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Arsenic	**4.9**		2.3	1.0	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Barium	**65.1**		0.58	0.16	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Beryllium	**0.47**		0.23	0.046	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Cadmium	**0.32**		0.23	0.081	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Calcium	**65700**		57.5	31.0	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Chromium	**13.9**		0.58	0.41	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Cobalt	**4.8**		0.58	0.12	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Copper	**27.4**		1.2	0.66	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Iron	**13300**		11.5	9.8	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Lead	**94.2**		1.2	0.53	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Magnesium	**15500**		23.0	9.8	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Manganese	**335**		1.2	0.32	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Nickel	**13.3**		5.8	0.29	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Potassium	**2290**		34.5	27.9	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Selenium	ND		4.6	0.92	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Silver	ND		0.69	0.23	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Sodium	**289**		161	70.5	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Thallium	ND		6.9	0.87	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Vanadium	**20.0**		0.58	0.15	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1
Zinc	**88.4**		2.3	1.2	mg/Kg	☼	02/20/25 14:28	02/21/25 12:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.024	0.0056	mg/Kg	☼	02/21/25 08:37	02/21/25 10:25	1

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227439-1
Project/Site: North Aud Block

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-227439-2	RISB-7 4-8 Ft	109	91	103	101
LCS 480-739348/1-A	Lab Control Sample	105	91	107	98
LCSD 480-739348/2-A	Lab Control Sample Dup	108	91	107	98
MB 480-739348/3-A	Method Blank	107	92	106	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(46-143)	(41-120)
480-227439-1	RISB-4 0-2 Ft	86	81	72	75	87	79
480-227439-1 MS	RISB-4 0-2 Ft	101	104	84	93	92	89
480-227439-1 MSD	RISB-4 0-2 Ft	97	91	79	84	87	81
480-227439-2	RISB-7 4-8 Ft	64	61	53	58	63	57
480-227439-3	Blind duplicate-2	86	89	73	80	83	79
LCS 480-739521/2-A	Lab Control Sample	99	100	77	87	103	80
MB 480-739521/1-A	Method Blank	87	92	72	82	98	78

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-227439-1	RISB-4 0-2 Ft	138 S1+	106	0 S1-	0 S1-
480-227439-1 MS	RISB-4 0-2 Ft	0 S1-	0 S1-	0 S1-	0 S1-
480-227439-1 MSD	RISB-4 0-2 Ft	0 S1-	0 S1-	0 S1-	0 S1-
480-227439-2	RISB-7 4-8 Ft	119	388 S1+	79	107
480-227439-3	Blind duplicate-2	79	210 S1+	80	85
LCS 480-739670/2-A	Lab Control Sample	102	101	78	83
MB 480-739670/1-A	Method Blank	155 S1+	149 S1+	115	115

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227439-1
Project/Site: North Aud Block

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-227439-2	RISB-7 4-8 Ft	98	105	101	105
LCS 480-739622/2-A	Lab Control Sample	121	129	130	135
MB 480-739622/1-A	Method Blank	101	100	116	118

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(28-129)	(28-129)
480-227439-2	RISB-7 4-8 Ft	71	74
LCS 480-739471/2-A	Lab Control Sample	75	70
MB 480-739471/1-A	Method Blank	78	74

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227439-1
Project/Site: North Aud Block

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)
480-227439-2	RISB-7 4-8 Ft	94.5	97.0	95.9	92.8	85.6	91.4	91.6	91.1
480-227439-2 DU	RISB-7 4-8 Ft	96.8	96.4	93.6	93.6	89.3	90.7	99.6	95.6
LCS 240-646022/3-A	Lab Control Sample	95.9	98.4	102	105	88.8	89.4	95.4	100
LLCS 240-646022/2-A	Lab Control Sample	98.1	90.6	96.1	88.4	92.2	92.4	99.4	96.5
MB 240-646022/1-A	Method Blank	99.6	93.3	97.8	96.9	91.0	91.9	96.1	101

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFTDA	C3PFBS	C3PFHS	C8PFOS	PFOSA	d3NMFOS	d5NEFOS	M242FTS
Lab Sample ID	Client Sample ID	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)
480-227439-2	RISB-7 4-8 Ft	76.7	86.7	82.5	88.7	91.2	79.2	79.4	93.1
480-227439-2 DU	RISB-7 4-8 Ft	81.6	86.9	84.5	93.2	94.1	84.3	86.4	87.8
LCS 240-646022/3-A	Lab Control Sample	87.0	99.7	88.8	101	94.6	84.7	91.4	89.8
LLCS 240-646022/2-A	Lab Control Sample	79.3	96.7	91.2	99.1	95.2	84.2	87.1	102
MB 240-646022/1-A	Method Blank	88.3	91.9	93.0	103	96.6	86.7	88.8	92.3

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS	M282FTS	HFPODA	NMFM	NEFM	d5NPFSA	d3NMFSA	PFDoDA
Lab Sample ID	Client Sample ID	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)
480-227439-2	RISB-7 4-8 Ft	86.7	78.9	96.1	65.5	45.9	69.7	86.7	86.5
480-227439-2 DU	RISB-7 4-8 Ft	91.3	83.7	106	83.5	74.8	76.9	94.6	88.3
LCS 240-646022/3-A	Lab Control Sample	97.6	88.5	102	80.3	77.4	71.3	86.3	86.4
LLCS 240-646022/2-A	Lab Control Sample	99.9	92.1	90.4	62.8	57.6	69.9	83.4	85.6
MB 240-646022/1-A	Method Blank	103	87.3	91.6	63.5	57.8	73.8	82.4	92.0

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = D3-NMeFOSA
PFDoDA = 13C2-PFDoDA

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-739348/3-A
Matrix: Solid
Analysis Batch: 739516

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
2-Hexanone	ND		25	2.5	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Acetone	ND		25	4.2	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Benzene	ND		5.0	0.25	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Bromoform	ND		5.0	2.5	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Bromomethane	ND		5.0	0.45	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Chloroethane	ND		5.0	1.1	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Chloroform	ND		5.0	0.31	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Chloromethane	ND		5.0	0.30	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Cyclohexane	ND		5.0	0.70	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Methyl acetate	ND		25	3.0	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
m,p-Xylene	ND		10	0.84	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Naphthalene	ND		5.0	0.67	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
o-Xylene	ND		5.0	0.65	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		02/20/25 10:55	02/24/25 20:58	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-739348/3-A
Matrix: Solid
Analysis Batch: 739516

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0	0.38	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Trichloroethene	ND		5.0	1.1	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Xylenes, Total	ND		10	0.84	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
Styrene	ND		5.0	0.25	ug/Kg		02/20/25 10:55	02/24/25 20:58	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		02/20/25 10:55	02/24/25 20:58	1

Tentatively Identified Compound	*Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*	*02/20/25 10:55*	*02/24/25 20:58*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*	*02/20/25 10:55*	*02/24/25 20:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*72 - 126*	*02/20/25 10:55*	*02/24/25 20:58*	*1*
Toluene-d8 (Surr)	*106*		*71 - 125*	*02/20/25 10:55*	*02/24/25 20:58*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*	*02/20/25 10:55*	*02/24/25 20:58*	*1*

Lab Sample ID: LCS 480-739348/1-A
Matrix: Solid
Analysis Batch: 739516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.3		ug/Kg		95	77 - 121
1,1,2,2-Tetrachloroethane	50.0	55.2		ug/Kg		110	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.4		ug/Kg		97	60 - 140
1,1,2-Trichloroethane	50.0	52.0		ug/Kg		104	78 - 122
1,1-Dichloroethane	50.0	48.6		ug/Kg		97	73 - 126
1,1-Dichloroethene	50.0	47.3		ug/Kg		95	59 - 125
1,2,4-Trichlorobenzene	50.0	52.3		ug/Kg		105	64 - 120
1,2,4-Trimethylbenzene	50.0	56.0		ug/Kg		112	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	60.4		ug/Kg		121	63 - 124
1,2-Dichlorobenzene	50.0	52.3		ug/Kg		105	75 - 120
1,2-Dichloroethane	50.0	48.7		ug/Kg		97	77 - 122
1,2-Dichloropropane	50.0	48.9		ug/Kg		98	75 - 124
1,3,5-Trimethylbenzene	50.0	56.3		ug/Kg		113	74 - 120
1,3-Dichlorobenzene	50.0	52.2		ug/Kg		104	74 - 120
1,4-Dichlorobenzene	50.0	51.1		ug/Kg		102	73 - 120
2-Butanone (MEK)	250	272		ug/Kg		109	70 - 134
2-Hexanone	250	313		ug/Kg		125	59 - 130
4-Isopropyltoluene	50.0	55.3		ug/Kg		111	74 - 120
4-Methyl-2-pentanone (MIBK)	250	317		ug/Kg		127	65 - 133
Acetone	250	250		ug/Kg		100	61 - 137
Benzene	50.0	46.6		ug/Kg		93	79 - 127
Bromoform	50.0	51.6		ug/Kg		103	68 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-739348/1-A
Matrix: Solid
Analysis Batch: 739516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	43.6		ug/Kg		87	37 - 149
Carbon disulfide	50.0	47.5		ug/Kg		95	64 - 131
Carbon tetrachloride	50.0	47.8		ug/Kg		96	75 - 135
Chlorobenzene	50.0	49.2		ug/Kg		98	76 - 124
Dibromochloromethane	50.0	52.5		ug/Kg		105	76 - 125
Chloroethane	50.0	46.6		ug/Kg		93	69 - 135
Chloroform	50.0	46.3		ug/Kg		93	80 - 120
Chloromethane	50.0	50.7		ug/Kg		101	63 - 127
cis-1,2-Dichloroethene	50.0	45.6		ug/Kg		91	81 - 120
Cyclohexane	50.0	53.4		ug/Kg		107	65 - 120
Bromodichloromethane	50.0	49.0		ug/Kg		98	80 - 122
Dichlorodifluoromethane	50.0	44.1		ug/Kg		88	57 - 142
Ethylbenzene	50.0	51.0		ug/Kg		102	80 - 120
1,2-Dibromoethane	50.0	49.9		ug/Kg		100	78 - 120
Isopropylbenzene	50.0	57.7		ug/Kg		115	72 - 120
Methyl acetate	100	108		ug/Kg		108	55 - 136
Methyl tert-butyl ether	50.0	45.9		ug/Kg		92	63 - 125
Methylcyclohexane	50.0	48.4		ug/Kg		97	60 - 140
Methylene Chloride	50.0	47.5		ug/Kg		95	61 - 127
m,p-Xylene	50.0	49.8		ug/Kg		100	70 - 130
Naphthalene	50.0	55.4		ug/Kg		111	38 - 137
n-Butylbenzene	50.0	57.0		ug/Kg		114	70 - 120
N-Propylbenzene	50.0	57.1		ug/Kg		114	70 - 130
o-Xylene	50.0	49.8		ug/Kg		100	70 - 130
sec-Butylbenzene	50.0	56.8		ug/Kg		114	74 - 120
Tetrachloroethene	50.0	49.9		ug/Kg		100	74 - 122
Toluene	50.0	50.5		ug/Kg		101	74 - 128
trans-1,2-Dichloroethene	50.0	46.5		ug/Kg		93	78 - 126
trans-1,3-Dichloropropene	50.0	52.2		ug/Kg		104	73 - 123
Trichloroethene	50.0	46.1		ug/Kg		92	77 - 129
Trichlorofluoromethane	50.0	46.8		ug/Kg		94	65 - 146
Vinyl chloride	50.0	47.1		ug/Kg		94	61 - 133
cis-1,3-Dichloropropene	50.0	46.8		ug/Kg		94	80 - 120
Styrene	50.0	48.7		ug/Kg		97	80 - 120
tert-Butylbenzene	50.0	55.2		ug/Kg		110	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*
4-Bromofluorobenzene (Surr)	*91*		*72 - 126*
Toluene-d8 (Surr)	*107*		*71 - 125*
Dibromofluoromethane (Surr)	*98*		*60 - 140*

Lab Sample ID: LCSD 480-739348/2-A
Matrix: Solid
Analysis Batch: 739516

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 739348

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	42.3		ug/Kg		85	77 - 121	11	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-739348/2-A
Matrix: Solid
Analysis Batch: 739516

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 739348

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	50.0	57.1		ug/Kg		114	80 - 120	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.8		ug/Kg		84	60 - 140	15	20
1,1,2-Trichloroethane	50.0	52.8		ug/Kg		106	78 - 122	2	20
1,1-Dichloroethane	50.0	46.6		ug/Kg		93	73 - 126	4	20
1,1-Dichloroethene	50.0	41.9		ug/Kg		84	59 - 125	12	20
1,2,4-Trichlorobenzene	50.0	50.2		ug/Kg		100	64 - 120	4	20
1,2,4-Trimethylbenzene	50.0	53.2		ug/Kg		106	74 - 120	5	20
1,2-Dibromo-3-Chloropropane	50.0	60.2		ug/Kg		120	63 - 124	0	20
1,2-Dichlorobenzene	50.0	51.3		ug/Kg		103	75 - 120	2	20
1,2-Dichloroethane	50.0	50.4		ug/Kg		101	77 - 122	3	20
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	75 - 124	0	20
1,3,5-Trimethylbenzene	50.0	52.9		ug/Kg		106	74 - 120	6	20
1,3-Dichlorobenzene	50.0	51.1		ug/Kg		102	74 - 120	2	20
1,4-Dichlorobenzene	50.0	49.7		ug/Kg		99	73 - 120	3	20
2-Butanone (MEK)	250	289		ug/Kg		116	70 - 134	6	20
2-Hexanone	250	325		ug/Kg		130	59 - 130	4	20
4-Isopropyltoluene	50.0	50.1		ug/Kg		100	74 - 120	10	20
4-Methyl-2-pentanone (MIBK)	250	328		ug/Kg		131	65 - 133	4	20
Acetone	250	258		ug/Kg		103	61 - 137	3	20
Benzene	50.0	45.0		ug/Kg		90	79 - 127	4	20
Bromoform	50.0	50.4		ug/Kg		101	68 - 126	2	20
Bromomethane	50.0	41.5		ug/Kg		83	37 - 149	5	20
Carbon disulfide	50.0	43.1		ug/Kg		86	64 - 131	10	20
Carbon tetrachloride	50.0	41.0		ug/Kg		82	75 - 135	15	20
Chlorobenzene	50.0	47.4		ug/Kg		95	76 - 124	4	20
Dibromochloromethane	50.0	52.6		ug/Kg		105	76 - 125	0	20
Chloroethane	50.0	42.0		ug/Kg		84	69 - 135	10	20
Chloroform	50.0	44.9		ug/Kg		90	80 - 120	3	20
Chloromethane	50.0	46.6		ug/Kg		93	63 - 127	8	20
cis-1,2-Dichloroethene	50.0	45.4		ug/Kg		91	81 - 120	0	20
Cyclohexane	50.0	46.4		ug/Kg		93	65 - 120	14	20
Bromodichloromethane	50.0	48.0		ug/Kg		96	80 - 122	2	20
Dichlorodifluoromethane	50.0	38.0		ug/Kg		76	57 - 142	15	20
Ethylbenzene	50.0	47.6		ug/Kg		95	80 - 120	7	20
1,2-Dibromoethane	50.0	51.6		ug/Kg		103	78 - 120	3	20
Isopropylbenzene	50.0	53.0		ug/Kg		106	72 - 120	8	20
Methyl acetate	100	115		ug/Kg		115	55 - 136	6	20
Methyl tert-butyl ether	50.0	47.2		ug/Kg		94	63 - 125	3	20
Methylcyclohexane	50.0	41.4		ug/Kg		83	60 - 140	16	20
Methylene Chloride	50.0	47.3		ug/Kg		95	61 - 127	0	20
m,p-Xylene	50.0	46.0		ug/Kg		92	70 - 130	8	20
Naphthalene	50.0	55.7		ug/Kg		111	38 - 137	0	20
n-Butylbenzene	50.0	50.6		ug/Kg		101	70 - 120	12	20
N-Propylbenzene	50.0	52.7		ug/Kg		105	70 - 130	8	20
o-Xylene	50.0	47.1		ug/Kg		94	70 - 130	5	20
sec-Butylbenzene	50.0	51.2		ug/Kg		102	74 - 120	10	20
Tetrachloroethene	50.0	44.8		ug/Kg		90	74 - 122	11	20
Toluene	50.0	48.3		ug/Kg		97	74 - 128	4	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-739348/2-A
Matrix: Solid
Analysis Batch: 739516

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 739348

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			50.0	43.5		ug/Kg		87	78 - 126	7	20
trans-1,3-Dichloropropene			50.0	52.4		ug/Kg		105	73 - 123	0	20
Trichloroethene			50.0	43.6		ug/Kg		87	77 - 129	5	20
Trichlorofluoromethane			50.0	40.6		ug/Kg		81	65 - 146	14	20
Vinyl chloride			50.0	41.5		ug/Kg		83	61 - 133	13	20
cis-1,3-Dichloropropene			50.0	47.2		ug/Kg		94	80 - 120	1	20
Styrene			50.0	47.3		ug/Kg		95	80 - 120	3	20
tert-Butylbenzene			50.0	51.8		ug/Kg		104	73 - 120	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*
4-Bromofluorobenzene (Surr)	*91*		*72 - 126*
Toluene-d8 (Surr)	*107*		*71 - 125*
Dibromofluoromethane (Surr)	*98*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-739521/1-A
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Chloronaphthalene	ND		170	28	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
1,4-Dioxane	ND		100	55	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Chlorophenol	ND		330	31	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Methylnaphthalene	ND		170	34	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Methylphenol	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Nitroaniline	ND		330	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
2-Nitrophenol	ND		170	48	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
3-Nitroaniline	ND		330	47	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Chloroaniline	ND		170	42	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Methylphenol	ND		330	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Nitroaniline	ND		330	89	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
4-Nitrophenol	ND		330	120	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Acenaphthene	ND		170	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-739521/1-A
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Acetophenone	ND		170	23	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Anthracene	ND		170	42	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Atrazine	ND		170	59	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzaldehyde	ND		170	140	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzo[a]anthracene	ND		170	17	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzo[a]pyrene	ND		170	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Caprolactam	ND		170	51	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Carbazole	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Chrysene	ND		170	38	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Dibenzofuran	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Diethyl phthalate	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Dimethyl phthalate	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Fluoranthene	ND		170	18	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Fluorene	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Hexachlorobenzene	ND		170	23	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Hexachlorobutadiene	ND		170	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Hexachloroethane	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Isophorone	ND		170	36	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Naphthalene	ND		170	22	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Nitrobenzene	ND		170	19	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Pentachlorophenol	ND		330	170	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Phenanthrene	ND		170	25	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Phenol	ND		170	26	ug/Kg		02/25/25 07:05	02/25/25 16:07	1
Pyrene	ND		170	20	ug/Kg		02/25/25 07:05	02/25/25 16:07	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1190*	*T J*	*ug/Kg*		*2.00*	*N/A*	*02/25/25 07:05*	*02/25/25 16:07*	*1*
Unknown	*1930*	*T J*	*ug/Kg*		*3.48*	*N/A*	*02/25/25 07:05*	*02/25/25 16:07*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*26 - 143*	*02/25/25 07:05*	*02/25/25 16:07*	*1*
2-Fluorobiphenyl	*92*		*50 - 121*	*02/25/25 07:05*	*02/25/25 16:07*	*1*
2-Fluorophenol	*72*		*36 - 120*	*02/25/25 07:05*	*02/25/25 16:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-739521/1-A
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739521

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	82		40 - 121	02/25/25 07:05	02/25/25 16:07	1
p-Terphenyl-d14	98		46 - 143	02/25/25 07:05	02/25/25 16:07	1
Phenol-d5	78		41 - 120	02/25/25 07:05	02/25/25 16:07	1

Lab Sample ID: LCS 480-739521/2-A
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	1330	1320		ug/Kg		99	59 - 120
bis (2-chloroisopropyl) ether	1330	1190		ug/Kg		89	44 - 120
2,4,5-Trichlorophenol	1330	1260		ug/Kg		94	59 - 126
2,4,6-Trichlorophenol	1330	1310		ug/Kg		98	59 - 123
2,4-Dichlorophenol	1330	1160		ug/Kg		87	61 - 120
2,4-Dimethylphenol	1330	1150		ug/Kg		86	59 - 120
2,4-Dinitrophenol	2670	2610		ug/Kg		98	41 - 146
2,4-Dinitrotoluene	1330	1240		ug/Kg		93	63 - 120
2,6-Dinitrotoluene	1330	1280		ug/Kg		96	66 - 120
2-Chloronaphthalene	1330	1340		ug/Kg		101	57 - 120
1,4-Dioxane	1330	699		ug/Kg		52	23 - 120
2-Chlorophenol	1330	1100		ug/Kg		82	53 - 120
2-Methylnaphthalene	1330	1130		ug/Kg		85	59 - 120
2-Methylphenol	1330	1030		ug/Kg		77	54 - 120
2-Nitroaniline	1330	1230		ug/Kg		92	61 - 120
2-Nitrophenol	1330	1180		ug/Kg		89	56 - 120
3,3'-Dichlorobenzidine	1330	998		ug/Kg		75	54 - 120
3-Nitroaniline	1330	980		ug/Kg		73	48 - 120
4,6-Dinitro-2-methylphenol	2670	2620		ug/Kg		98	49 - 122
4-Bromophenyl phenyl ether	1330	1390		ug/Kg		104	58 - 120
4-Chloro-3-methylphenol	1330	1080		ug/Kg		81	61 - 120
4-Chloroaniline	1330	953		ug/Kg		71	38 - 120
4-Chlorophenyl phenyl ether	1330	1250		ug/Kg		94	63 - 124
4-Methylphenol	1330	1060		ug/Kg		80	55 - 120
4-Nitroaniline	1330	1120		ug/Kg		84	56 - 120
4-Nitrophenol	2670	2230		ug/Kg		84	43 - 147
Acenaphthene	1330	1290		ug/Kg		96	62 - 120
Acenaphthylene	1330	1370		ug/Kg		103	58 - 121
Acetophenone	1330	1050		ug/Kg		79	54 - 120
Anthracene	1330	1330		ug/Kg		100	62 - 120
Atrazine	1330	1200		ug/Kg		90	60 - 127
Benzaldehyde	1330	1120		ug/Kg		84	10 - 150
Benzo[a]anthracene	1330	1320		ug/Kg		99	65 - 120
Benzo[a]pyrene	1330	1380		ug/Kg		103	64 - 120
Benzo[b]fluoranthene	1330	1290		ug/Kg		96	64 - 120
Benzo[g,h,i]perylene	1330	1430		ug/Kg		107	45 - 145
Benzo[k]fluoranthene	1330	1510		ug/Kg		113	65 - 120
Bis(2-chloroethoxy)methane	1330	1170		ug/Kg		88	55 - 120
Bis(2-chloroethyl)ether	1330	1080		ug/Kg		81	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-739521/2-A
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	1330	1320		ug/Kg		99	61 - 133
Butyl benzyl phthalate	1330	1320		ug/Kg		99	61 - 129
Caprolactam	1330	975		ug/Kg		73	47 - 120
Carbazole	1330	1260		ug/Kg		95	65 - 120
Chrysene	1330	1290		ug/Kg		97	64 - 120
Di-n-butyl phthalate	1330	1280		ug/Kg		96	58 - 130
Di-n-octyl phthalate	1330	1270		ug/Kg		95	57 - 133
Dibenz(a,h)anthracene	1330	1420		ug/Kg		107	54 - 132
Dibenzofuran	1330	1240		ug/Kg		93	63 - 120
Diethyl phthalate	1330	1240		ug/Kg		93	66 - 120
Dimethyl phthalate	1330	1260		ug/Kg		95	65 - 124
Fluoranthene	1330	1310		ug/Kg		98	62 - 120
Fluorene	1330	1270		ug/Kg		95	63 - 120
Hexachlorobenzene	1330	1330		ug/Kg		100	60 - 120
Hexachlorobutadiene	1330	1150		ug/Kg		86	45 - 120
Hexachlorocyclopentadiene	1330	1310		ug/Kg		98	47 - 120
Hexachloroethane	1330	1010		ug/Kg		76	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1420		ug/Kg		106	56 - 134
Isophorone	1330	1170		ug/Kg		88	56 - 120
N-Nitrosodi-n-propylamine	1330	1070		ug/Kg		80	52 - 120
N-Nitrosodiphenylamine	1330	1350		ug/Kg		101	51 - 128
Naphthalene	1330	1150		ug/Kg		86	55 - 120
Nitrobenzene	1330	1150		ug/Kg		87	54 - 120
Pentachlorophenol	2670	2520		ug/Kg		94	10 - 120
Phenanthrene	1330	1310		ug/Kg		98	60 - 120
Phenol	1330	1050		ug/Kg		79	53 - 120
Pyrene	1330	1440		ug/Kg		108	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*26 - 143*
2-Fluorobiphenyl	*100*		*50 - 121*
2-Fluorophenol	*77*		*36 - 120*
Nitrobenzene-d5	*87*		*40 - 121*
p-Terphenyl-d14	*103*		*46 - 143*
Phenol-d5	*80*		*41 - 120*

Lab Sample ID: 480-227439-1 MS
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	ND		1420	1480		ug/Kg	☼	104	58 - 120
bis (2-chloroisopropyl) ether	ND		1420	1500		ug/Kg	☼	105	31 - 120
2,4,5-Trichlorophenol	ND		1420	1460		ug/Kg	☼	102	46 - 120
2,4,6-Trichlorophenol	ND		1420	1480		ug/Kg	☼	104	41 - 123
2,4-Dichlorophenol	ND		1420	1380		ug/Kg	☼	97	45 - 120
2,4-Dimethylphenol	ND		1420	1350		ug/Kg	☼	95	52 - 120
2,4-Dinitrophenol	ND		2850	ND		ug/Kg	☼	NC	41 - 146

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227439-1 MS
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	ND		1420	1460		ug/Kg	☼	102	63 - 125
2,6-Dinitrotoluene	ND		1420	1570		ug/Kg	☼	110	66 - 120
2-Chloronaphthalene	ND		1420	1490		ug/Kg	☼	105	57 - 120
1,4-Dioxane	ND		1420	661		ug/Kg	☼	46	13 - 120
2-Chlorophenol	ND		1420	1280	J	ug/Kg	☼	90	43 - 120
2-Methylnaphthalene	180	J	1420	1510		ug/Kg	☼	93	55 - 120
2-Methylphenol	ND		1420	1350		ug/Kg	☼	95	48 - 120
2-Nitroaniline	ND		1420	1440	J	ug/Kg	☼	101	61 - 120
2-Nitrophenol	ND		1420	1400		ug/Kg	☼	98	37 - 120
3,3'-Dichlorobenzidine	ND		1420	1240	J	ug/Kg	☼	87	37 - 126
3-Nitroaniline	ND		1420	1300	J	ug/Kg	☼	91	48 - 120
4,6-Dinitro-2-methylphenol	ND	F2	2850	2580		ug/Kg	☼	91	23 - 149
4-Bromophenyl phenyl ether	ND		1420	1570		ug/Kg	☼	111	58 - 120
4-Chloro-3-methylphenol	ND		1420	1270		ug/Kg	☼	89	49 - 125
4-Chloroaniline	ND		1420	1070		ug/Kg	☼	75	38 - 120
4-Chlorophenyl phenyl ether	ND		1420	1440		ug/Kg	☼	101	63 - 124
4-Methylphenol	ND		1420	1350	J	ug/Kg	☼	95	50 - 120
4-Nitroaniline	ND		1420	1320	J	ug/Kg	☼	93	47 - 120
4-Nitrophenol	ND		2850	2540		ug/Kg	☼	89	31 - 147
Acenaphthene	ND		1420	1510		ug/Kg	☼	106	60 - 120
Acenaphthylene	ND	F1 F2	1420	2250	F1	ug/Kg	☼	158	58 - 121
Acetophenone	ND		1420	1310		ug/Kg	☼	92	47 - 120
Anthracene	270	J F1 F2	1420	2440	F1	ug/Kg	☼	153	62 - 120
Atrazine	ND		1420	1370		ug/Kg	☼	96	60 - 150
Benzaldehyde	ND		1420	1260		ug/Kg	☼	89	10 - 150
Benzo[a]anthracene	850	J F1 F2	1420	4990	F1	ug/Kg	☼	291	65 - 120
Benzo[a]pyrene	820	J F1 F2	1420	4570	F1	ug/Kg	☼	263	64 - 120
Benzo[b]fluoranthene	920	F1 F2	1420	4510	F1	ug/Kg	☼	252	10 - 150
Benzo[g,h,i]perylene	570	J F1 F2	1420	3130	F1	ug/Kg	☼	180	45 - 145
Benzo[k]fluoranthene	440	J F1 F2	1420	3190	F1	ug/Kg	☼	193	23 - 150
Bis(2-chloroethoxy)methane	ND		1420	1410		ug/Kg	☼	99	52 - 120
Bis(2-chloroethyl)ether	ND		1420	1230		ug/Kg	☼	86	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1420	1470		ug/Kg	☼	103	61 - 133
Butyl benzyl phthalate	ND		1420	1460		ug/Kg	☼	102	61 - 120
Caprolactam	ND		1420	1190		ug/Kg	☼	84	37 - 133
Carbazole	160	J	1420	1550		ug/Kg	☼	98	59 - 120
Chrysene	930	F1 F2	1420	4420	F1	ug/Kg	☼	246	64 - 120
Di-n-butyl phthalate	ND		1420	1500		ug/Kg	☼	106	58 - 130
Di-n-octyl phthalate	ND		1420	1610		ug/Kg	☼	113	57 - 133
Dibenz(a,h)anthracene	160	J F1 F2	1420	2310	F1	ug/Kg	☼	150	54 - 132
Dibenzofuran	ND		1420	1520		ug/Kg	☼	107	62 - 120
Diethyl phthalate	ND		1420	1500		ug/Kg	☼	105	66 - 120
Dimethyl phthalate	ND		1420	1500		ug/Kg	☼	106	65 - 124
Fluoranthene	1700	F1 F2	1420	5610	F1	ug/Kg	☼	271	62 - 120
Fluorene	110	J	1420	1590		ug/Kg	☼	104	63 - 120
Hexachlorobenzene	ND		1420	1490		ug/Kg	☼	105	60 - 120
Hexachlorobutadiene	ND		1420	1350		ug/Kg	☼	95	45 - 120
Hexachlorocyclopentadiene	ND		1420	963		ug/Kg	☼	68	31 - 120
Hexachloroethane	ND		1420	1220		ug/Kg	☼	86	21 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227439-1 MS
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	440	J F1 F2	1420	3020	F1	ug/Kg	☼	182	56 - 134
Isophorone	ND		1420	1400		ug/Kg	☼	98	56 - 120
N-Nitrosodi-n-propylamine	ND		1420	1360		ug/Kg	☼	95	46 - 120
N-Nitrosodiphenylamine	ND		1420	1510		ug/Kg	☼	106	20 - 128
Naphthalene	170	J	1420	1490		ug/Kg	☼	93	46 - 120
Nitrobenzene	ND		1420	1310		ug/Kg	☼	92	49 - 120
Pentachlorophenol	ND		2850	2610		ug/Kg	☼	92	10 - 136
Phenanthrene	1300	F1 F2	1420	2990		ug/Kg	☼	119	60 - 122
Phenol	ND		1420	1250		ug/Kg	☼	88	50 - 120
Pyrene	1500	F1 F2	1420	4950	F1	ug/Kg	☼	240	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*101*		*26 - 143*
2-Fluorobiphenyl	*104*		*50 - 121*
2-Fluorophenol	*84*		*36 - 120*
Nitrobenzene-d5	*93*		*40 - 121*
p-Terphenyl-d14	*92*		*46 - 143*
Phenol-d5	*89*		*41 - 120*

Lab Sample ID: 480-227439-1 MSD
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Biphenyl	ND		1410	1320		ug/Kg	☼	94	58 - 120	12	20
bis (2-chloroisopropyl) ether	ND		1410	1350		ug/Kg	☼	96	31 - 120	11	24
2,4,5-Trichlorophenol	ND		1410	1340		ug/Kg	☼	95	46 - 120	9	18
2,4,6-Trichlorophenol	ND		1410	1350		ug/Kg	☼	96	41 - 123	9	19
2,4-Dichlorophenol	ND		1410	1310		ug/Kg	☼	93	45 - 120	5	19
2,4-Dimethylphenol	ND		1410	1270		ug/Kg	☼	90	52 - 120	6	42
2,4-Dinitrophenol	ND		2810	ND		ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	ND		1410	1370		ug/Kg	☼	98	63 - 125	6	20
2,6-Dinitrotoluene	ND		1410	1440		ug/Kg	☼	102	66 - 120	9	15
2-Chloronaphthalene	ND		1410	1310		ug/Kg	☼	93	57 - 120	13	21
1,4-Dioxane	ND		1410	608		ug/Kg	☼	43	13 - 120	8	50
2-Chlorophenol	ND		1410	1210	J	ug/Kg	☼	86	43 - 120	6	25
2-Methylnaphthalene	180	J	1410	1290		ug/Kg	☼	79	55 - 120	16	21
2-Methylphenol	ND		1410	1220		ug/Kg	☼	87	48 - 120	11	27
2-Nitroaniline	ND		1410	1390	J	ug/Kg	☼	99	61 - 120	3	15
2-Nitrophenol	ND		1410	1320		ug/Kg	☼	94	37 - 120	6	18
3,3'-Dichlorobenzidine	ND		1410	1140	J	ug/Kg	☼	81	37 - 126	9	25
3-Nitroaniline	ND		1410	1260	J	ug/Kg	☼	90	48 - 120	3	19
4,6-Dinitro-2-methylphenol	ND	F2	2810	2010	F2	ug/Kg	☼	71	23 - 149	25	15
4-Bromophenyl phenyl ether	ND		1410	1350		ug/Kg	☼	96	58 - 120	15	15
4-Chloro-3-methylphenol	ND		1410	1240		ug/Kg	☼	88	49 - 125	2	27
4-Chloroaniline	ND		1410	1030		ug/Kg	☼	73	38 - 120	4	22
4-Chlorophenyl phenyl ether	ND		1410	1370		ug/Kg	☼	97	63 - 124	5	16
4-Methylphenol	ND		1410	1200	J	ug/Kg	☼	86	50 - 120	12	24

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227439-1 MSD
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitroaniline	ND		1410	1350	J	ug/Kg	☼	96	47 - 120	2	24
4-Nitrophenol	ND		2810	2730		ug/Kg	☼	97	31 - 147	7	25
Acenaphthene	ND		1410	1410		ug/Kg	☼	100	60 - 120	7	35
Acenaphthylene	ND	F1 F2	1410	1410	F2	ug/Kg	☼	100	58 - 121	46	18
Acetophenone	ND		1410	1140		ug/Kg	☼	81	47 - 120	14	20
Anthracene	270	J F1 F2	1410	1480	F2	ug/Kg	☼	86	62 - 120	49	15
Atrazine	ND		1410	1510		ug/Kg	☼	107	60 - 150	10	20
Benzaldehyde	ND		1410	1140		ug/Kg	☼	81	10 - 150	10	20
Benzo[a]anthracene	850	J F1 F2	1410	1670	F1 F2	ug/Kg	☼	58	65 - 120	100	15
Benzo[a]pyrene	820	J F1 F2	1410	1680	F1 F2	ug/Kg	☼	61	64 - 120	92	15
Benzo[b]fluoranthene	920	F1 F2	1410	1540	F2	ug/Kg	☼	44	10 - 150	98	15
Benzo[g,h,i]perylene	570	J F1 F2	1410	1540	F2	ug/Kg	☼	68	45 - 145	68	15
Benzo[k]fluoranthene	440	J F1 F2	1410	1610	F2	ug/Kg	☼	83	23 - 150	66	22
Bis(2-chloroethoxy)methane	ND		1410	1250		ug/Kg	☼	89	52 - 120	12	17
Bis(2-chloroethyl)ether	ND		1410	1150		ug/Kg	☼	82	45 - 120	7	21
Bis(2-ethylhexyl) phthalate	ND		1410	1330		ug/Kg	☼	95	61 - 133	10	15
Butyl benzyl phthalate	ND		1410	1390		ug/Kg	☼	99	61 - 120	5	16
Caprolactam	ND		1410	1190		ug/Kg	☼	85	37 - 133	0	20
Carbazole	160	J	1410	1400		ug/Kg	☼	88	59 - 120	10	20
Chrysene	930	F1 F2	1410	1700	F1 F2	ug/Kg	☼	55	64 - 120	89	15
Di-n-butyl phthalate	ND		1410	1450		ug/Kg	☼	103	58 - 130	4	15
Di-n-octyl phthalate	ND		1410	1510		ug/Kg	☼	107	57 - 133	6	16
Dibenz(a,h)anthracene	160	J F1 F2	1410	1550	F2	ug/Kg	☼	99	54 - 132	39	15
Dibenzofuran	ND		1410	1400		ug/Kg	☼	99	62 - 120	8	15
Diethyl phthalate	ND		1410	1370		ug/Kg	☼	98	66 - 120	9	15
Dimethyl phthalate	ND		1410	1390		ug/Kg	☼	99	65 - 124	8	15
Fluoranthene	1700	F1 F2	1410	2020	F1 F2	ug/Kg	☼	19	62 - 120	94	15
Fluorene	110	J	1410	1420		ug/Kg	☼	93	63 - 120	11	15
Hexachlorobenzene	ND		1410	1350		ug/Kg	☼	96	60 - 120	10	15
Hexachlorobutadiene	ND		1410	1180		ug/Kg	☼	84	45 - 120	14	44
Hexachlorocyclopentadiene	ND		1410	617	J	ug/Kg	☼	44	31 - 120	44	49
Hexachloroethane	ND		1410	1050		ug/Kg	☼	75	21 - 120	15	46
Indeno[1,2,3-cd]pyrene	440	J F1 F2	1410	1590	F2	ug/Kg	☼	82	56 - 134	62	15
Isophorone	ND		1410	1300		ug/Kg	☼	93	56 - 120	7	17
N-Nitrosodi-n-propylamine	ND		1410	1210		ug/Kg	☼	86	46 - 120	11	31
N-Nitrosodiphenylamine	ND		1410	1330		ug/Kg	☼	95	20 - 128	12	15
Naphthalene	170	J	1410	1270		ug/Kg	☼	78	46 - 120	17	29
Nitrobenzene	ND		1410	1210		ug/Kg	☼	86	49 - 120	8	24
Pentachlorophenol	ND		2810	2550		ug/Kg	☼	91	10 - 136	2	35
Phenanthrene	1300	F1 F2	1410	1700	F1 F2	ug/Kg	☼	29	60 - 122	55	15
Phenol	ND		1410	1160		ug/Kg	☼	83	50 - 120	8	35
Pyrene	1500	F1 F2	1410	1710	F1 F2	ug/Kg	☼	13	61 - 133	97	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*97*		*26 - 143*
2-Fluorobiphenyl	*91*		*50 - 121*
2-Fluorophenol	*79*		*36 - 120*
Nitrobenzene-d5	*84*		*40 - 121*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227439-1 MSD
Matrix: Solid
Analysis Batch: 739577

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739521

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl-d14	*87*		*46 - 143*
Phenol-d5	*81*		*41 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-739670/1-A
Matrix: Solid
Analysis Batch: 739745

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
4,4'-DDT	ND		1.7	0.39	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Aldrin	ND		1.7	0.41	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
alpha-BHC	ND		1.7	0.30	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
cis-Chlordane	ND		1.7	0.83	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
beta-BHC	ND		1.7	0.30	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
delta-BHC	ND		1.7	0.31	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Dieldrin	ND		1.7	0.40	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Endosulfan I	ND		1.7	0.32	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Endosulfan II	ND		1.7	0.30	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Endrin	ND		1.7	0.33	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Endrin aldehyde	ND		1.7	0.43	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Endrin ketone	ND		1.7	0.41	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
gamma-BHC (Lindane)	ND		1.7	0.31	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
trans-Chlordane	ND		1.7	0.53	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Heptachlor	ND		1.7	0.36	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Methoxychlor	ND		1.7	0.34	ug/Kg		02/26/25 10:29	02/27/25 10:40	1
Toxaphene	ND		17	9.7	ug/Kg		02/26/25 10:29	02/27/25 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*155*	*S1+*	*45 - 120*	*02/26/25 10:29*	*02/27/25 10:40*	*1*
DCB Decachlorobiphenyl	*149*	*S1+*	*45 - 120*	*02/26/25 10:29*	*02/27/25 10:40*	*1*
Tetrachloro-m-xylene	*115*		*30 - 124*	*02/26/25 10:29*	*02/27/25 10:40*	*1*
Tetrachloro-m-xylene	*115*		*30 - 124*	*02/26/25 10:29*	*02/27/25 10:40*	*1*

Lab Sample ID: LCS 480-739670/2-A
Matrix: Solid
Analysis Batch: 739745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	17.7		ug/Kg		106	56 - 120
4,4'-DDE	16.7	16.1		ug/Kg		97	44 - 120
4,4'-DDT	16.7	17.6		ug/Kg		106	38 - 120
Aldrin	16.7	14.9		ug/Kg		90	38 - 120
alpha-BHC	16.7	13.2		ug/Kg		79	39 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-739670/2-A
Matrix: Solid
Analysis Batch: 739745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-Chlordane	16.7	14.2		ug/Kg		85	47 - 120
beta-BHC	16.7	16.7		ug/Kg		100	40 - 120
delta-BHC	16.7	15.6		ug/Kg		94	45 - 120
Dieldrin	16.7	18.5		ug/Kg		111	58 - 120
Endosulfan I	16.7	18.5		ug/Kg		111	49 - 120
Endosulfan II	16.7	18.7		ug/Kg		112	55 - 120
Endosulfan sulfate	16.7	18.1		ug/Kg		109	49 - 124
Endrin	16.7	18.1		ug/Kg		109	58 - 120
Endrin aldehyde	16.7	14.8		ug/Kg		89	37 - 121
Endrin ketone	16.7	17.5		ug/Kg		105	46 - 123
gamma-BHC (Lindane)	16.7	15.2		ug/Kg		91	50 - 120
trans-Chlordane	16.7	15.8		ug/Kg		95	48 - 120
Heptachlor	16.7	17.2		ug/Kg		103	50 - 120
Heptachlor epoxide	16.7	18.3		ug/Kg		110	50 - 120
Methoxychlor	16.7	17.6		ug/Kg		105	58 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*45 - 120*
DCB Decachlorobiphenyl	*101*		*45 - 120*
Tetrachloro-m-xylene	*78*		*30 - 124*
Tetrachloro-m-xylene	*83*		*30 - 124*

Lab Sample ID: 480-227439-1 MS
Matrix: Solid
Analysis Batch: 739745

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	ND	F1	17.5	13.8	J	ug/Kg	☼	79	37 - 126
4,4'-DDE	ND	F1	17.5	13.1	J	ug/Kg	☼	75	34 - 120
4,4'-DDT	ND	F1 F2	17.5	24.9	J F1	ug/Kg	☼	142	43 - 123
Aldrin	ND	F1	17.5	17.0	J	ug/Kg	☼	97	37 - 125
alpha-BHC	ND	F2	17.5	20.4	J	ug/Kg	☼	117	39 - 120
cis-Chlordane	ND	F1	17.5	ND	F1	ug/Kg	☼	0	35 - 120
beta-BHC	ND	F1	17.5	ND	F1	ug/Kg	☼	0	36 - 120
delta-BHC	ND	F2	17.5	20.4	J	ug/Kg	☼	117	34 - 120
Dieldrin	ND	F1	17.5	18.3	J	ug/Kg	☼	105	45 - 120
Endosulfan I	ND	F1	17.5	14.7	J	ug/Kg	☼	84	39 - 120
Endosulfan II	ND	F2	17.5	19.5	J	ug/Kg	☼	112	34 - 126
Endosulfan sulfate	ND	F1	17.5	11.2	J	ug/Kg	☼	64	27 - 130
Endrin	ND	F1	17.5	14.4	J	ug/Kg	☼	82	47 - 121
Endrin aldehyde	ND	F1	17.5	15.3	J	ug/Kg	☼	87	33 - 123
Endrin ketone	ND	F1	17.5	15.5	J	ug/Kg	☼	89	43 - 126
gamma-BHC (Lindane)	ND	F1 F2	17.5	21.4	J F1	ug/Kg	☼	122	50 - 120
trans-Chlordane	ND	F1	17.5	13.3	J	ug/Kg	☼	76	31 - 120
Heptachlor	ND	F1	17.5	16.5	J	ug/Kg	☼	95	42 - 120
Heptachlor epoxide	ND	F1	17.5	11.6	J	ug/Kg	☼	66	40 - 120
Methoxychlor	ND	F2	17.5	18.3	J	ug/Kg	☼	105	44 - 150

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-227439-1 MS
Matrix: Solid
Analysis Batch: 739745

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739670

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	0	S1-	45 - 120
DCB Decachlorobiphenyl	0	S1-	45 - 120
Tetrachloro-m-xylene	0	S1-	30 - 124
Tetrachloro-m-xylene	0	S1-	30 - 124

Lab Sample ID: 480-227439-1 MSD
Matrix: Solid
Analysis Batch: 739745

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739670

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	ND	F1	17.9	ND	F1	ug/Kg	☼	0	37 - 126	NC	21
4,4'-DDE	ND	F1	17.9	ND	F1	ug/Kg	☼	0	34 - 120	NC	18
4,4'-DDT	ND	F1 F2	17.9	15.1	J F2	ug/Kg	☼	84	43 - 123	49	25
Aldrin	ND	F1	17.9	ND	F1	ug/Kg	☼	0	37 - 125	NC	12
alpha-BHC	ND	F2	17.9	15.2	J F2	ug/Kg	☼	85	39 - 120	29	15
cis-Chlordane	ND	F1	17.9	ND		ug/Kg	☼	NC	35 - 120	NC	23
beta-BHC	ND	F1	17.9	9.49	J	ug/Kg	☼	53	36 - 120	NC	19
delta-BHC	ND	F2	17.9	12.9	J F2	ug/Kg	☼	72	34 - 120	45	14
Dieldrin	ND	F1	17.9	ND	F1	ug/Kg	☼	0	45 - 120	NC	12
Endosulfan I	ND	F1	17.9	ND	F1	ug/Kg	☼	0	39 - 120	NC	18
Endosulfan II	ND	F2	17.9	9.25	J F2	ug/Kg	☼	52	34 - 126	71	26
Endosulfan sulfate	ND	F1	17.9	ND	F1	ug/Kg	☼	0	27 - 130	NC	35
Endrin	ND	F1	17.9	ND	F1	ug/Kg	☼	0	47 - 121	NC	20
Endrin aldehyde	ND	F1	17.9	ND	F1	ug/Kg	☼	0	33 - 123	NC	47
Endrin ketone	ND	F1	17.9	ND	F1	ug/Kg	☼	0	43 - 126	NC	37
gamma-BHC (Lindane)	ND	F1 F2	17.9	13.3	J F2	ug/Kg	☼	74	50 - 120	46	12
trans-Chlordane	ND	F1	17.9	ND	F1	ug/Kg	☼	0	31 - 120	NC	15
Heptachlor	ND	F1	17.9	ND	F1	ug/Kg	☼	0	42 - 120	NC	22
Heptachlor epoxide	ND	F1	17.9	ND	F1	ug/Kg	☼	0	40 - 120	NC	15
Methoxychlor	ND	F2	17.9	11.7	J F2	ug/Kg	☼	65	44 - 150	44	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	0	S1-	45 - 120
DCB Decachlorobiphenyl	0	S1-	45 - 120
Tetrachloro-m-xylene	0	S1-	30 - 124
Tetrachloro-m-xylene	0	S1-	30 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-739622/1-A
Matrix: Solid
Analysis Batch: 739623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1221	ND		0.25	0.049	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1232	ND		0.25	0.049	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1242	ND		0.25	0.049	mg/Kg		02/26/25 07:09	02/26/25 13:26	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-739622/1-A
Matrix: Solid
Analysis Batch: 739623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		0.25	0.049	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1254	ND		0.25	0.12	mg/Kg		02/26/25 07:09	02/26/25 13:26	1
PCB-1260	ND		0.25	0.12	mg/Kg		02/26/25 07:09	02/26/25 13:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*60 - 154*	*02/26/25 07:09*	*02/26/25 13:26*	*1*
Tetrachloro-m-xylene	*100*		*60 - 154*	*02/26/25 07:09*	*02/26/25 13:26*	*1*
DCB Decachlorobiphenyl	*116*		*65 - 174*	*02/26/25 07:09*	*02/26/25 13:26*	*1*
DCB Decachlorobiphenyl	*118*		*65 - 174*	*02/26/25 07:09*	*02/26/25 13:26*	*1*

Lab Sample ID: LCS 480-739622/2-A
Matrix: Solid
Analysis Batch: 739623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.50	3.18		mg/Kg		127	51 - 185
PCB-1260	2.50	3.37		mg/Kg		135	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*121*		*60 - 154*
Tetrachloro-m-xylene	*129*		*60 - 154*
DCB Decachlorobiphenyl	*130*		*65 - 174*
DCB Decachlorobiphenyl	*135*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-739471/1-A
Matrix: Solid
Analysis Batch: 739632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.3	ug/Kg		02/24/25 06:56	02/26/25 11:59	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg		02/24/25 06:56	02/26/25 11:59	1
2,4-D	ND		17	11	ug/Kg		02/24/25 06:56	02/26/25 11:59	1
Dichlorprop	ND		17	8.3	ug/Kg		02/24/25 06:56	02/26/25 11:59	1
Pentachlorophenol	ND		17	5.4	ug/Kg		02/24/25 06:56	02/26/25 11:59	1
Picloram	ND		17	7.2	ug/Kg		02/24/25 06:56	02/26/25 11:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*78*		*28 - 129*	*02/24/25 06:56*	*02/26/25 11:59*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*02/24/25 06:56*	*02/26/25 11:59*	*1*

Lab Sample ID: LCS 480-739471/2-A
Matrix: Solid
Analysis Batch: 739632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	66.7	45.3		ug/Kg		68	41 - 120

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 480-739471/2-A
Matrix: Solid
Analysis Batch: 739632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silvex (2,4,5-TP)	66.7	46.2		ug/Kg		69	39 - 125
2,4-D	66.7	46.5		ug/Kg		70	40 - 120
Dichlorprop	66.7	48.7		ug/Kg		73	34 - 121
Pentachlorophenol	66.7	13.2	J	ug/Kg		20	10 - 120
Picloram	66.7	44.2		ug/Kg		66	22 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-646022/1-A
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.13	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluoropentanoic acid (PFPeA)	ND		0.25	0.063	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorohexanoic acid (PFHxA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluoroheptanoic acid (PFHpA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorooctanoic acid (PFOA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorononanoic acid (PFNA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorodecanoic acid (PFDA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluoroundecanoic acid (PFUnA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorododecanoic acid (PFDoA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorononanesulfonic acid (PFNS)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.50	0.13	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.50	0.13	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.50	0.13	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-646022/1-A
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.3	0.31	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.3	0.31	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.50	0.13	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.50	0.13	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.25	0.063	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.25	0.063	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.50	0.13	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.50	0.13	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.25	0.063	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.63	0.16	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.1	0.78	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.1	0.78	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.13	0.031	ug/Kg		02/25/25 12:16	02/26/25 10:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.25	0.063	ug/Kg		02/25/25 12:16	02/26/25 10:22	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99.6*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C5 PFPeA	*93.3*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C5 PFHxA	*97.8*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C4 PFHpA	*96.9*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C8 PFOA	*91.0*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C9 PFNA	*91.9*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C6 PFDA	*96.1*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C7 PFUnA	*101*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C2 PFTeDA	*88.3*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C3 PFBS	*91.9*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C3 PFHxS	*93.0*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C8 PFOS	*103*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C8 PFOSA	*96.6*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
d3-NMeFOSAA	*86.7*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
d5-NEtFOSAA	*88.8*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
M2-4:2 FTS	*92.3*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
M2-6:2 FTS	*103*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
M2-8:2 FTS	*87.3*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
13C3 HFPO-DA	*91.6*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
d7-N-MeFOSE-M	*63.5*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*
d9-N-EtFOSE-M	*57.8*		*20 - 150*	*02/25/25 12:16*	*02/26/25 10:22*	*1*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-646022/1-A
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646022

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	73.8		20 - 150	02/25/25 12:16	02/26/25 10:22	1
D3-NMeFOSA	82.4		20 - 150	02/25/25 12:16	02/26/25 10:22	1
13C2-PFDoDA	92.0		20 - 150	02/25/25 12:16	02/26/25 10:22	1

Lab Sample ID: LCS 240-646022/3-A
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	6.25	6.49		ug/Kg		104	40 - 150
Perfluoropentanoic acid (PFPeA)	3.13	3.41		ug/Kg		109	40 - 150
Perfluorohexanoic acid (PFHxA)	1.56	1.56		ug/Kg		100	40 - 150
Perfluoroheptanoic acid (PFHpA)	1.56	1.51		ug/Kg		97	40 - 150
Perfluorooctanoic acid (PFOA)	1.56	1.66		ug/Kg		106	40 - 150
Perfluorononanoic acid (PFNA)	1.56	1.57		ug/Kg		101	40 - 150
Perfluorodecanoic acid (PFDA)	1.56	1.65		ug/Kg		106	40 - 150
Perfluoroundecanoic acid (PFUnA)	1.56	1.59		ug/Kg		102	40 - 150
Perfluorododecanoic acid (PFDoA)	1.56	1.70		ug/Kg		109	40 - 150
Perfluorotridecanoic acid (PFTrDA)	1.56	1.77		ug/Kg		113	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	1.56	1.66		ug/Kg		106	40 - 150
Perfluorobutanesulfonic acid (PFBS)	1.39	1.48		ug/Kg		107	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.47	1.64		ug/Kg		111	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.56		ug/Kg		109	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.49	1.48		ug/Kg		99	40 - 150
Perfluorooctanesulfonic acid (PFOS)	1.45	1.45		ug/Kg		100	40 - 150
Perfluorononanesulfonic acid (PFNS)	1.50	1.53		ug/Kg		102	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	1.52	1.34		ug/Kg		88	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	5.86	6.35		ug/Kg		108	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.95	5.52		ug/Kg		93	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.00	6.09		ug/Kg		101	40 - 150
Perfluorooctanesulfonamide (PFOSA)	1.56	1.62		ug/Kg		104	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.56	1.69		ug/Kg		108	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.56	1.78		ug/Kg		114	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.56	1.64		ug/Kg		105	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.56	1.63		ug/Kg		104	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-646022/3-A
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	15.6	16.5		ug/Kg		105	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	15.6	16.7		ug/Kg		107	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.25	6.89		ug/Kg		110	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.91	6.21		ug/Kg		105	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.13	3.32		ug/Kg		106	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.13	3.03		ug/Kg		97	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.84	6.09		ug/Kg		104	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	5.90	6.20		ug/Kg		105	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.79	2.88		ug/Kg		103	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.81	8.44		ug/Kg		108	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	39.1	38.5		ug/Kg		99	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	39.1	37.0		ug/Kg		95	40 - 150
Perfluorodecanesulfonic acid (PFDS)	1.51	1.45		ug/Kg		96	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.13	3.42		ug/Kg		109	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*95.9*		*20 - 150*
13C5 PFPeA	*98.4*		*20 - 150*
13C5 PFHxA	*102*		*20 - 150*
13C4 PFHpA	*105*		*20 - 150*
13C8 PFOA	*88.8*		*20 - 150*
13C9 PFNA	*89.4*		*20 - 150*
13C6 PFDA	*95.4*		*20 - 150*
13C7 PFUnA	*100*		*20 - 150*
13C2 PFTeDA	*87.0*		*20 - 150*
13C3 PFBS	*99.7*		*20 - 150*
13C3 PFHxS	*88.8*		*20 - 150*
13C8 PFOS	*101*		*20 - 150*
13C8 PFOSA	*94.6*		*20 - 150*
d3-NMeFOSAA	*84.7*		*20 - 150*
d5-NEtFOSAA	*91.4*		*20 - 150*
M2-4:2 FTS	*89.8*		*20 - 150*
M2-6:2 FTS	*97.6*		*20 - 150*
M2-8:2 FTS	*88.5*		*20 - 150*
13C3 HFPO-DA	*102*		*20 - 150*
d7-N-MeFOSE-M	*80.3*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-646022/3-A
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646022

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d9-N-EtFOSE-M	*77.4*		*20 - 150*
d5-NEtPFOSA	*71.3*		*20 - 150*
D3-NMeFOSA	*86.3*		*20 - 150*
13C2-PFDoDA	*86.4*		*20 - 150*

Lab Sample ID: LLCS 240-646022/2-A
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646022

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.550		ug/Kg		110	40 - 150
Perfluoropentanoic acid (PFPeA)	0.250	0.299		ug/Kg		120	40 - 150
Perfluorohexanoic acid (PFHxA)	0.125	0.131		ug/Kg		105	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.125	0.129	J	ug/Kg		103	40 - 150
Perfluorooctanoic acid (PFOA)	0.125	0.138		ug/Kg		110	40 - 150
Perfluorononanoic acid (PFNA)	0.125	0.135		ug/Kg		108	40 - 150
Perfluorodecanoic acid (PFDA)	0.125	0.131		ug/Kg		105	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.125	0.134		ug/Kg		107	40 - 150
Perfluorododecanoic acid (PFDoA)	0.125	0.136		ug/Kg		109	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.125	0.140		ug/Kg		112	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.125	0.133		ug/Kg		107	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.111	0.118	J	ug/Kg		106	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.118	0.134		ug/Kg		114	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.114	0.128	J	ug/Kg		112	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.119	0.123	J	ug/Kg		103	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.116	0.129	J	ug/Kg		111	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.120	0.130		ug/Kg		108	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.121	0.102	J	ug/Kg		84	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.470	J	ug/Kg		100	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.443	J	ug/Kg		93	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.513		ug/Kg		107	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.125	0.131		ug/Kg		105	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.125	0.145		ug/Kg		116	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.125	0.155		ug/Kg		124	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.125	0.143		ug/Kg		114	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-646022/2-A
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646022

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.125	0.146		ug/Kg		116	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.46		ug/Kg		117	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.51		ug/Kg		121	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.500	0.572		ug/Kg		114	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.473	0.532		ug/Kg		112	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.281		ug/Kg		112	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.237	J	ug/Kg		95	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.467	0.516		ug/Kg		111	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.472	0.511		ug/Kg		108	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.223	0.237	J	ug/Kg		106	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.625	0.699		ug/Kg		112	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	3.13	3.11		ug/Kg		99	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	3.13	2.92	J	ug/Kg		93	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.121	0.121	J	ug/Kg		100	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.276		ug/Kg		110	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*98.1*		*20 - 150*
13C5 PFPeA	*90.6*		*20 - 150*
13C5 PFHxA	*96.1*		*20 - 150*
13C4 PFHpA	*88.4*		*20 - 150*
13C8 PFOA	*92.2*		*20 - 150*
13C9 PFNA	*92.4*		*20 - 150*
13C6 PFDA	*99.4*		*20 - 150*
13C7 PFUnA	*96.5*		*20 - 150*
13C2 PFTeDA	*79.3*		*20 - 150*
13C3 PFBS	*96.7*		*20 - 150*
13C3 PFHxS	*91.2*		*20 - 150*
13C8 PFOS	*99.1*		*20 - 150*
13C8 PFOSA	*95.2*		*20 - 150*
d3-NMeFOSAA	*84.2*		*20 - 150*
d5-NEtFOSAA	*87.1*		*20 - 150*
M2-4:2 FTS	*102*		*20 - 150*
M2-6:2 FTS	*99.9*		*20 - 150*
M2-8:2 FTS	*92.1*		*20 - 150*
13C3 HFPO-DA	*90.4*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-646022/2-A
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646022

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
d7-N-MeFOSE-M	*62.8*		*20 - 150*
d9-N-EtFOSE-M	*57.6*		*20 - 150*
d5-NEtPFOSA	*69.9*		*20 - 150*
D3-NMeFOSA	*83.4*		*20 - 150*
13C2-PFDoDA	*85.6*		*20 - 150*

Lab Sample ID: 480-227439-2 DU
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: RISB-7 4-8 Ft
Prep Type: Total/NA
Prep Batch: 646022

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	ND			ND		ug/Kg	☼			NC	30
Perfluoropentanoic acid (PFPeA)	0.10	J		ND		ug/Kg	☼			NC	30
Perfluorohexanoic acid (PFHxA)	0.057	J		0.0468	J	ug/Kg	☼			19	30
Perfluoroheptanoic acid (PFHpA)	ND			ND		ug/Kg	☼			NC	30
Perfluorooctanoic acid (PFOA)	0.057	J		0.0523	J	ug/Kg	☼			8	30
Perfluorononanoic acid (PFNA)	ND			ND		ug/Kg	☼			NC	30
Perfluorodecanoic acid (PFDA)	ND			ND		ug/Kg	☼			NC	30
Perfluoroundecanoic acid (PFUnA)	0.041	J		ND		ug/Kg	☼			NC	30
Perfluorododecanoic acid (PFDoA)	ND			ND		ug/Kg	☼			NC	30
Perfluorotridecanoic acid (PFTrDA)	ND			ND		ug/Kg	☼			NC	30
Perfluorotetradecanoic acid (PFTeDA)	ND			ND		ug/Kg	☼			NC	30
Perfluorobutanesulfonic acid (PFBS)	ND			ND		ug/Kg	☼			NC	30
Perfluoropentanesulfonic acid (PFPeS)	ND			ND		ug/Kg	☼			NC	30
Perfluorohexanesulfonic acid (PFHxS)	ND			0.0421	J	ug/Kg	☼			NC	30
Perfluoroheptanesulfonic acid (PFHpS)	ND			ND		ug/Kg	☼			NC	30
Perfluorooctanesulfonic acid (PFOS)	0.16			0.162		ug/Kg	☼			3	30
Perfluorononanesulfonic acid (PFNS)	ND			ND		ug/Kg	☼			NC	30
Perfluorododecanesulfonic acid (PFDoS)	ND			ND		ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND			ND		ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND			ND		ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND			ND		ug/Kg	☼			NC	30
Perfluorooctanesulfonamide (PFOSA)	ND			ND		ug/Kg	☼			NC	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND			ND		ug/Kg	☼			NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND			ND		ug/Kg	☼			NC	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227439-2 DU
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: RISB-7 4-8 Ft
Prep Type: Total/NA
Prep Batch: 646022

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND			ND		ug/Kg	☼			NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND			ND		ug/Kg	☼			NC	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND			ND		ug/Kg	☼			NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND			ND		ug/Kg	☼			NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND			ND		ug/Kg	☼			NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND			ND		ug/Kg	☼			NC	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND			ND		ug/Kg	☼			NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND			ND		ug/Kg	☼			NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND			ND		ug/Kg	☼			NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND			ND		ug/Kg	☼			NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND			ND		ug/Kg	☼			NC	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND			ND		ug/Kg	☼			NC	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND			ND		ug/Kg	☼			NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND			ND		ug/Kg	☼			NC	30
Perfluorodecanesulfonic acid (PFDS)	ND			ND		ug/Kg	☼			NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND			ND		ug/Kg	☼			NC	30

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
13C4 PFBA	*96.8*		*20 - 150*
13C5 PFPeA	*96.4*		*20 - 150*
13C5 PFHxA	*93.6*		*20 - 150*
13C4 PFHpA	*93.6*		*20 - 150*
13C8 PFOA	*89.3*		*20 - 150*
13C9 PFNA	*90.7*		*20 - 150*
13C6 PFDA	*99.6*		*20 - 150*
13C7 PFUnA	*95.6*		*20 - 150*
13C2 PFTeDA	*81.6*		*20 - 150*
13C3 PFBS	*86.9*		*20 - 150*
13C3 PFHxS	*84.5*		*20 - 150*
13C8 PFOS	*93.2*		*20 - 150*
13C8 PFOSA	*94.1*		*20 - 150*
d3-NMeFOSAA	*84.3*		*20 - 150*
d5-NEtFOSAA	*86.4*		*20 - 150*
M2-4:2 FTS	*87.8*		*20 - 150*
M2-6:2 FTS	*91.3*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227439-2 DU
Matrix: Solid
Analysis Batch: 646103

Client Sample ID: RISB-7 4-8 Ft
Prep Type: Total/NA
Prep Batch: 646022

Isotope Dilution	DU %Recovery	DU Qualifier	Limits
M2-8:2 FTS	83.7		20 - 150
13C3 HFPO-DA	106		20 - 150
d7-N-MeFOSE-M	83.5		20 - 150
d9-N-EtFOSE-M	74.8		20 - 150
d5-NEtPFOSA	76.9		20 - 150
D3-NMeFOSA	94.6		20 - 150
13C2-PFDoDA	88.3		20 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-739337/1-A
Matrix: Solid
Analysis Batch: 739429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.5	9.0	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Antimony	ND		15.7	0.55	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Arsenic	ND		2.1	0.92	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Barium	ND		0.52	0.15	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Beryllium	ND		0.21	0.042	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Cadmium	ND		0.21	0.073	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Calcium	ND		52.3	28.2	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Chromium	ND		0.52	0.38	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Cobalt	ND		0.52	0.10	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Copper	ND		1.0	0.60	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Iron	ND		10.5	8.9	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Lead	ND		1.0	0.48	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Magnesium	ND		20.9	8.9	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Manganese	ND		1.0	0.29	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Nickel	ND		5.2	0.26	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Potassium	ND		31.4	25.3	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Selenium	ND		4.2	0.84	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Silver	ND		0.63	0.21	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Sodium	ND		146	64.1	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Thallium	ND		6.3	0.79	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Vanadium	ND		0.52	0.14	mg/Kg		02/20/25 14:28	02/21/25 12:16	1
Zinc	ND		2.1	1.1	mg/Kg		02/20/25 14:28	02/21/25 12:16	1

Lab Sample ID: LCSSRM 480-739337/2-A
Matrix: Solid
Analysis Batch: 739429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739337

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	7669		mg/Kg		99.9	47.4 - 130.2
Antimony	201	74.20		mg/Kg		36.9	0.06 - 100.0
Arsenic	181	130.0		mg/Kg		71.8	66.3 - 97.8
Barium	211	180.8		mg/Kg		85.7	73.9 - 107.1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-739337/2-A
Matrix: Solid
Analysis Batch: 739429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739337

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	270	229.4		mg/Kg		85.0	73.0 - 104.4
Cadmium	221	181.6		mg/Kg		82.2	70.6 - 101.8
Calcium	4280	3818		mg/Kg		89.2	77.3 - 111.0
Chromium	149	120.4		mg/Kg		80.8	71.8 - 105.4
Cobalt	142	135.2		mg/Kg		95.2	73.2 - 104.2
Copper	264	221.4		mg/Kg		83.8	73.5 - 104.2
Iron	7360	6368		mg/Kg		86.5	55.4 - 130.3
Lead	106	97.04		mg/Kg		91.5	76.1 - 109.4
Magnesium	2170	1854		mg/Kg		85.4	68.7 - 112.0
Manganese	270	220.9		mg/Kg		81.8	73.0 - 107.8
Nickel	117	165.8		mg/Kg		141.7	108.5 - 156.4
Potassium	2340	2128		mg/Kg		90.9	62.8 - 113.7
Selenium	139	103.0		mg/Kg		74.1	70.0 - 107.9
Silver	59.9	49.81		mg/Kg		83.2	72.8 - 110.7
Sodium	306	266.2		mg/Kg		87.0	66.0 - 113.4
Thallium	205	179.1		mg/Kg		87.3	71.7 - 106.8
Vanadium	155	128.3		mg/Kg		82.8	69.0 - 107.7
Zinc	398	325.3		mg/Kg		81.7	68.8 - 104.5

Lab Sample ID: 480-227439-1 MS
Matrix: Solid
Analysis Batch: 739429

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	9910		1170	10340	4	mg/Kg	☼	36	75 - 125
Antimony	ND		114	93.34		mg/Kg	☼	82	75 - 125
Arsenic	8.8		229	213.9		mg/Kg	☼	89	75 - 125
Barium	51.2		228	253.5		mg/Kg	☼	89	75 - 125
Beryllium	0.43		113	103.2		mg/Kg	☼	91	75 - 125
Cadmium	0.30		114	107.9		mg/Kg	☼	94	75 - 125
Calcium	18100	F2 F1	5700	60930	F1	mg/Kg	☼	752	75 - 125
Chromium	11.2		114	108.3		mg/Kg	☼	85	75 - 125
Cobalt	5.0		114	111.1		mg/Kg	☼	93	75 - 125
Copper	19.0	F2 F1	114	133.1		mg/Kg	☼	100	75 - 125
Iron	11900		1170	9984	4	mg/Kg	☼	-167	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-227439-1 MS
Matrix: Solid
Analysis Batch: 739429

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	129	F2 F1	114	199.6	F1	mg/Kg	☼	62	75 - 125
Magnesium	8930	F2 F1	5700	15730		mg/Kg	☼	119	75 - 125
Manganese	259	F2 F1	114	331.7	F1	mg/Kg	☼	64	75 - 125
Nickel	12.7		114	120.1		mg/Kg	☼	94	75 - 125
Potassium	1790		5700	7887		mg/Kg	☼	107	75 - 125
Selenium	ND		228	190.2		mg/Kg	☼	83	75 - 125
Silver	ND		11.4	8.84		mg/Kg	☼	77	75 - 125
Sodium	151	J	5700	5576		mg/Kg	☼	95	75 - 125
Thallium	ND		228	221.9		mg/Kg	☼	97	75 - 125
Vanadium	20.3		114	119.2		mg/Kg	☼	86	75 - 125
Zinc	92.7	F1	114	162.6	F1	mg/Kg	☼	61	75 - 125

Lab Sample ID: 480-227439-1 MSD
Matrix: Solid
Analysis Batch: 739429

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	9910		1160	11650	4	mg/Kg	☼	150	75 - 125	12	20
Antimony	ND		113	86.75		mg/Kg	☼	77	75 - 125	7	20
Arsenic	8.8		227	216.0		mg/Kg	☼	91	75 - 125	1	20
Barium	51.2		226	278.2		mg/Kg	☼	100	75 - 125	9	20
Beryllium	0.43		112	100.0		mg/Kg	☼	89	75 - 125	3	20
Cadmium	0.30		113	103.0		mg/Kg	☼	91	75 - 125	5	20
Calcium	18100	F2 F1	5650	23520	F2	mg/Kg	☼	96	75 - 125	89	20
Chromium	11.2		113	106.6		mg/Kg	☼	85	75 - 125	2	20
Cobalt	5.0		113	110.4		mg/Kg	☼	93	75 - 125	1	20
Copper	19.0	F2 F1	113	233.7	F1 F2	mg/Kg	☼	190	75 - 125	55	20
Iron	11900		1160	10920	4	mg/Kg	☼	-88	75 - 125	9	20
Lead	129	F2 F1	113	280.9	F1 F2	mg/Kg	☼	135	75 - 125	34	20
Magnesium	8930	F2 F1	5650	11730	F2 F1	mg/Kg	☼	50	75 - 125	29	20
Manganese	259	F2 F1	113	259.0	F2 F1	mg/Kg	☼	-0.3	75 - 125	25	20
Nickel	12.7		113	116.8		mg/Kg	☼	92	75 - 125	3	20
Potassium	1790		5650	7467		mg/Kg	☼	101	75 - 125	5	20
Selenium	ND		226	184.1		mg/Kg	☼	81	75 - 125	3	20
Silver	ND		11.3	8.55		mg/Kg	☼	76	75 - 125	3	20
Sodium	151	J	5650	5394		mg/Kg	☼	93	75 - 125	3	20
Thallium	ND		226	217.2		mg/Kg	☼	96	75 - 125	2	20
Vanadium	20.3		113	120.1		mg/Kg	☼	88	75 - 125	1	20
Zinc	92.7	F1	113	190.3		mg/Kg	☼	86	75 - 125	16	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-739394/1-A
Matrix: Solid
Analysis Batch: 739411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021	0.0048	mg/Kg		02/21/25 08:37	02/21/25 10:31	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-739394/2-A ^10
Matrix: Solid
Analysis Batch: 739411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739394

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			24.0	19.32		mg/Kg		80.5	55.8 - 109.6		

Lab Sample ID: 480-227439-1 MS
Matrix: Solid
Analysis Batch: 739411

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739394

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.41	F1	0.372	0.716		mg/Kg	☼	83	80 - 120		

Lab Sample ID: 480-227439-1 MSD
Matrix: Solid
Analysis Batch: 739411

Client Sample ID: RISB-4 0-2 Ft
Prep Type: Total/NA
Prep Batch: 739394

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.41	F1	0.360	0.641	F1	mg/Kg	☼	65	80 - 120	11	20

GC/MS VOA

Prep Batch: 739348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	5035A_L	
MB 480-739348/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-739348/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-739348/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 739516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	8260C	739348
MB 480-739348/3-A	Method Blank	Total/NA	Solid	8260C	739348
LCS 480-739348/1-A	Lab Control Sample	Total/NA	Solid	8260C	739348
LCSD 480-739348/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	739348

GC/MS Semi VOA

Prep Batch: 739521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-1	RISB-4 0-2 Ft	Total/NA	Solid	3550C	
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	3550C	
480-227439-3	Blind duplicate-2	Total/NA	Solid	3550C	
MB 480-739521/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739521/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227439-1 MS	RISB-4 0-2 Ft	Total/NA	Solid	3550C	
480-227439-1 MSD	RISB-4 0-2 Ft	Total/NA	Solid	3550C	

Analysis Batch: 739577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-1	RISB-4 0-2 Ft	Total/NA	Solid	8270D	739521
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	8270D	739521
480-227439-3	Blind duplicate-2	Total/NA	Solid	8270D	739521
MB 480-739521/1-A	Method Blank	Total/NA	Solid	8270D	739521
LCS 480-739521/2-A	Lab Control Sample	Total/NA	Solid	8270D	739521
480-227439-1 MS	RISB-4 0-2 Ft	Total/NA	Solid	8270D	739521
480-227439-1 MSD	RISB-4 0-2 Ft	Total/NA	Solid	8270D	739521

GC Semi VOA

Prep Batch: 739471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	8151A	
MB 480-739471/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-739471/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Prep Batch: 739622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	3550C	
MB 480-739622/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739622/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 739623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	8082A	739622
MB 480-739622/1-A	Method Blank	Total/NA	Solid	8082A	739622

GC Semi VOA (Continued)

Analysis Batch: 739623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-739622/2-A	Lab Control Sample	Total/NA	Solid	8082A	739622

Analysis Batch: 739632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	8151A	739471
MB 480-739471/1-A	Method Blank	Total/NA	Solid	8151A	739471
LCS 480-739471/2-A	Lab Control Sample	Total/NA	Solid	8151A	739471

Prep Batch: 739670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-1	RISB-4 0-2 Ft	Total/NA	Solid	3550C	
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	3550C	
480-227439-3	Blind duplicate-2	Total/NA	Solid	3550C	
MB 480-739670/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-739670/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227439-1 MS	RISB-4 0-2 Ft	Total/NA	Solid	3550C	
480-227439-1 MSD	RISB-4 0-2 Ft	Total/NA	Solid	3550C	

Analysis Batch: 739745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-1	RISB-4 0-2 Ft	Total/NA	Solid	8081B	739670
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	8081B	739670
480-227439-3	Blind duplicate-2	Total/NA	Solid	8081B	739670
MB 480-739670/1-A	Method Blank	Total/NA	Solid	8081B	739670
LCS 480-739670/2-A	Lab Control Sample	Total/NA	Solid	8081B	739670
480-227439-1 MS	RISB-4 0-2 Ft	Total/NA	Solid	8081B	739670
480-227439-1 MSD	RISB-4 0-2 Ft	Total/NA	Solid	8081B	739670

LCMS

Prep Batch: 646022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	1633 Shake	
MB 240-646022/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-646022/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-646022/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
480-227439-2 DU	RISB-7 4-8 Ft	Total/NA	Solid	1633 Shake	

Analysis Batch: 646103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	1633	646022
MB 240-646022/1-A	Method Blank	Total/NA	Solid	1633	646022
LCS 240-646022/3-A	Lab Control Sample	Total/NA	Solid	1633	646022
LLCS 240-646022/2-A	Lab Control Sample	Total/NA	Solid	1633	646022
480-227439-2 DU	RISB-7 4-8 Ft	Total/NA	Solid	1633	646022

Metals

Prep Batch: 739337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-1	RISB-4 0-2 Ft	Total/NA	Solid	3050B	
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 739337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-3	Blind duplicate-2	Total/NA	Solid	3050B	
MB 480-739337/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-739337/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-227439-1 MS	RISB-4 0-2 Ft	Total/NA	Solid	3050B	
480-227439-1 MSD	RISB-4 0-2 Ft	Total/NA	Solid	3050B	

Prep Batch: 739394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-1	RISB-4 0-2 Ft	Total/NA	Solid	7471B	
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	7471B	
480-227439-3	Blind duplicate-2	Total/NA	Solid	7471B	
MB 480-739394/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-739394/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-227439-1 MS	RISB-4 0-2 Ft	Total/NA	Solid	7471B	
480-227439-1 MSD	RISB-4 0-2 Ft	Total/NA	Solid	7471B	

Analysis Batch: 739411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-1	RISB-4 0-2 Ft	Total/NA	Solid	7471B	739394
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	7471B	739394
480-227439-3	Blind duplicate-2	Total/NA	Solid	7471B	739394
MB 480-739394/1-A	Method Blank	Total/NA	Solid	7471B	739394
LCSSRM 480-739394/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	739394
480-227439-1 MS	RISB-4 0-2 Ft	Total/NA	Solid	7471B	739394
480-227439-1 MSD	RISB-4 0-2 Ft	Total/NA	Solid	7471B	739394

Analysis Batch: 739429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-1	RISB-4 0-2 Ft	Total/NA	Solid	6010C	739337
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	6010C	739337
480-227439-3	Blind duplicate-2	Total/NA	Solid	6010C	739337
MB 480-739337/1-A	Method Blank	Total/NA	Solid	6010C	739337
LCSSRM 480-739337/2-A	Lab Control Sample	Total/NA	Solid	6010C	739337
480-227439-1 MS	RISB-4 0-2 Ft	Total/NA	Solid	6010C	739337
480-227439-1 MSD	RISB-4 0-2 Ft	Total/NA	Solid	6010C	739337

Analysis Batch: 739439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	6010C	739337

General Chemistry

Analysis Batch: 739381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227439-1	RISB-4 0-2 Ft	Total/NA	Solid	Moisture	
480-227439-2	RISB-7 4-8 Ft	Total/NA	Solid	Moisture	
480-227439-3	Blind duplicate-2	Total/NA	Solid	Moisture	
480-227439-1 MS	RISB-4 0-2 Ft	Total/NA	Solid	Moisture	
480-227439-1 MSD	RISB-4 0-2 Ft	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227439-1
Project/Site: North Aud Block

Client Sample ID: RISB-4 0-2 Ft
Lab Sample ID: 480-227439-1
Date Collected: 02/17/25 12:00
Matrix: Solid
Date Received: 02/20/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739381	AF	EET BUF	02/20/25 14:43

Client Sample ID: RISB-4 0-2 Ft
Lab Sample ID: 480-227439-1
Date Collected: 02/17/25 12:00
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		5	739577	JMM	EET BUF	02/25/25 19:19
Total/NA	Prep	3550C			739670	VXF	EET BUF	02/26/25 10:29
Total/NA	Analysis	8081B		20	739745	JLS	EET BUF	02/27/25 11:59
Total/NA	Prep	3050B			739337	ET	EET BUF	02/20/25 14:28
Total/NA	Analysis	6010C		1	739429	MP	EET BUF	02/21/25 12:21
Total/NA	Prep	7471B			739394	ESB	EET BUF	02/21/25 08:37
Total/NA	Analysis	7471B		1	739411	ESB	EET BUF	02/21/25 10:38

Client Sample ID: RISB-7 4-8 Ft
Lab Sample ID: 480-227439-2
Date Collected: 02/19/25 12:45
Matrix: Solid
Date Received: 02/20/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739381	AF	EET BUF	02/20/25 14:43

Client Sample ID: RISB-7 4-8 Ft
Lab Sample ID: 480-227439-2
Date Collected: 02/19/25 12:45
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			739348	ZN	EET BUF	02/20/25 10:55
Total/NA	Analysis	8260C		1	739516	CDC	EET BUF	02/24/25 21:22
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		1	739577	JMM	EET BUF	02/26/25 00:37
Total/NA	Prep	3550C			739670	VXF	EET BUF	02/26/25 10:29
Total/NA	Analysis	8081B		10	739745	JLS	EET BUF	02/27/25 12:19
Total/NA	Prep	3550C			739622	SMP	EET BUF	02/26/25 07:09
Total/NA	Analysis	8082A		1	739623	H9RU	EET BUF	02/26/25 16:11
Total/NA	Prep	8151A			739471	DP	EET BUF	02/24/25 06:56
Total/NA	Analysis	8151A		1	739632	MAN	EET BUF	02/26/25 15:56
Total/NA	Prep	1633 Shake			646022	CLB	EET CLE	02/25/25 12:16
Total/NA	Analysis	1633		1	646103	LD	EET CLE	02/26/25 13:41
Total/NA	Prep	3050B			739337	ET	EET BUF	02/20/25 14:28
Total/NA	Analysis	6010C		1	739429	MP	EET BUF	02/21/25 12:31
Total/NA	Prep	3050B			739337	ET	EET BUF	02/20/25 14:28
Total/NA	Analysis	6010C		5	739439	MP	EET BUF	02/21/25 14:33

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227439-1
Project/Site: North Aud Block

Client Sample ID: RISB-7 4-8 Ft
Lab Sample ID: 480-227439-2
Date Collected: 02/19/25 12:45
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			739394	ESB	EET BUF	02/21/25 08:37
Total/NA	Analysis	7471B		1	739411	ESB	EET BUF	02/21/25 10:24

Client Sample ID: Blind duplicate-2
Lab Sample ID: 480-227439-3
Date Collected: 02/19/25 12:50
Matrix: Solid
Date Received: 02/20/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	739381	AF	EET BUF	02/20/25 14:43

Client Sample ID: Blind duplicate-2
Lab Sample ID: 480-227439-3
Date Collected: 02/19/25 12:50
Matrix: Solid
Date Received: 02/20/25 09:00
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			739521	DP	EET BUF	02/25/25 07:05
Total/NA	Analysis	8270D		1	739577	JMM	EET BUF	02/26/25 01:03
Total/NA	Prep	3550C			739670	VXF	EET BUF	02/26/25 10:29
Total/NA	Analysis	8081B		10	739745	JLS	EET BUF	02/27/25 12:38
Total/NA	Prep	3050B			739337	ET	EET BUF	02/20/25 14:28
Total/NA	Analysis	6010C		1	739429	MP	EET BUF	02/21/25 12:56
Total/NA	Prep	7471B			739394	ESB	EET BUF	02/21/25 08:37
Total/NA	Analysis	7471B		1	739411	ESB	EET BUF	02/21/25 10:25

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227439-1
Project/Site: North Aud Block

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8151A	8151A	Solid	Picloram
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Method Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227439-1
Project/Site: North Aud Block

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
8151A	Herbicides (GC)	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227439-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227439-1	RISB-4 0-2 Ft	Solid	02/17/25 12:00	02/20/25 09:00
480-227439-2	RISB-7 4-8 Ft	Solid	02/19/25 12:45	02/20/25 09:00
480-227439-3	Blind duplicate-2	Solid	02/19/25 12:50	02/20/25 09:00

Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information
Client Contact: Bryan Mayback
Company: Roux Environmental Engineering and Geology DPC
Address: 2558 Hamburg Turnpike Suite 300
City: Lackawanna
State, Zip: NY, 14218
Phone:
Email: bmayback@rouxinc.com
Project Name: North Aud Block - soil
Site:

Sampler: Nick Suraci
Phone: 716-713-3937
PWSID:
Due Date Requested: Standard
TAT Requested (days):
Compliance Project: Δ Yes Δ No
PO #: Purchase Order Requested 4375.0002Bxxx
WO #:
Project #: 48028442
SSOW#:

Lab PM: Fischer, Brian J
E-Mail: Brian.Fischer@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:

COC No: 480-202116-41517.9
Page: Page 9 of 9
Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	1633 - 1633 Standard List of 40	8082A, 8151A	6010C, 7471B	8081B, 8270D	TCL SVOCs + TICs	TAL Metals	Pesticides	Total Number of containers
			Preservation Code:				N	N	N	N	N				
RISB-4 0-2 Ft	2/17/25	1200	6	Solid		X						X	X	X	
RISB-7 4-8 Ft	2/19/25	12:45	6	Solid			X	X	X	X	X				
Blind Duplicate -2	2/19/25	12:50	6	Solid								X	X	X	
				Solid											
				Solid											
				Solid											
				Solid											
				Solid											
				Solid											
				Solid											
				Solid											
				Solid											

Preservation Codes: N - None
Other:
Special Instructions/Note: MS-2 MSD-2 Encores

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samp
☐ Return To Client ☐ Disposal By Lab

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYSDEC EQuIS

Special Instructions/QC Requirements:

480-227439 Chain of Custody

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:
Relinquished by:		Date/Time: 2/19/25 1400	Company: Roux	Received by:	Date/Time: 2/19/25 1410	Company: ET
Relinquished by:		Date/Time: 2/20/25 0900	Company: EET	Received by:	Date/Time: 2-20-25 900	Company: TAM
Relinquished by:		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.2 ICE IR #5C

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer Brian J	Carrier Tracking No(s): N/A	COC No: 480-91490.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brian Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-227439-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 3/12/2025			
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

86

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RISB-7 4-8 Ft (480-227439-2)	2/19/25	12:45 Eastern	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company		Date/Time:	Company
Relinquished by:	2-20 25 1600		Received by: MALISSA LOAR	2/24/25 10:00	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client EGR. Buffalo Site Name

Cooler Received on 2/24/25 Opened on 2/24/25

Cooler unpacked by: MALISSA LOAR

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # 22 Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13 (CF 0 °C) Observed Cooler Temp. 2.7 °C Corrected Cooler Temp. 2.7 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3 Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5 Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7 Did all bottles arrive in good condition (Unbroken)?	Yes	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	Yes	No
11 Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC448976
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen.

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-227439-1

Login Number: 227439
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2 ICE IR# SC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ROUX
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Generated 3/20/2025 10:49:15 AM

JOB DESCRIPTION

North Aud Block

JOB NUMBER

480-227790-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

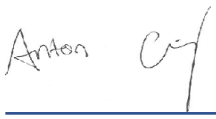
Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
3/20/2025 10:49:15 AM

Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 10
QC Sample Results 21
QC Association Summary 34
Lab Chronicle 35
Certification Summary 36
Method Summary 37
Sample Summary 38
Canister QC Documents 39
Chain of Custody 40
Receipt Checklists 42
Clean Canister Certification 43
Pre-Ship Certification 43
Clean Canister Data 44

Definitions/Glossary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-227790-1 Eurofins Buffalo

Job Narrative
480-227790-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/8/2025 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Air - GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Client Sample ID: SV-3
Lab Sample ID: 480-227790-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.5		2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	1.3	J	1.8	0.42	ug/m3	1		TO-15	Total/NA
Chloromethane	0.43	J	1.0	0.31	ug/m3	1		TO-15	Total/NA
n-Butane	24		1.2	0.48	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.12	J	0.44	0.086	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7		1.1	0.28	ug/m3	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.67	J	1.5	0.41	ug/m3	1		TO-15	Total/NA
Acetone	130	E	12	3.8	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.66	J	1.6	0.40	ug/m3	1		TO-15	Total/NA
n-Hexane	31		1.8	0.39	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	25		1.5	1.4	ug/m3	1		TO-15	Total/NA
Chloroform	0.62	J	0.98	0.20	ug/m3	1		TO-15	Total/NA
Cyclohexane	38		0.69	0.20	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.24		0.22	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.8		0.93	0.18	ug/m3	1		TO-15	Total/NA
Benzene	1.8		0.64	0.14	ug/m3	1		TO-15	Total/NA
n-Heptane	18		0.82	0.23	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.0	J	2.0	0.53	ug/m3	1		TO-15	Total/NA
Toluene	14		0.75	0.23	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.15	J	1.4	0.14	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.3		0.87	0.30	ug/m3	1		TO-15	Total/NA
m,p-Xylene	13		2.2	0.41	ug/m3	1		TO-15	Total/NA
o-Xylene	5.8		0.87	0.27	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	1.1		0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.8		0.98	0.24	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.7		0.98	0.23	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	9.2		0.98	0.39	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	1.6		1.2	0.44	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	2.7	J	7.4	1.6	ug/m3	2.99		TO-15	Total/NA
Chlorodifluoromethane - DL	2.3	J	5.3	1.3	ug/m3	2.99		TO-15	Total/NA
n-Butane - DL	33		3.6	1.4	ug/m3	2.99		TO-15	Total/NA
Trichlorofluoromethane - DL	2.0	J	3.4	0.84	ug/m3	2.99		TO-15	Total/NA
Acetone - DL	150		36	11	ug/m3	2.99		TO-15	Total/NA
n-Hexane - DL	32		5.3	1.2	ug/m3	2.99		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	26		4.4	4.3	ug/m3	2.99		TO-15	Total/NA
Chloroform - DL	0.72	J	2.9	0.60	ug/m3	2.99		TO-15	Total/NA
Cyclohexane - DL	40		2.1	0.60	ug/m3	2.99		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	3.2		2.8	0.53	ug/m3	2.99		TO-15	Total/NA
Benzene - DL	2.0		1.9	0.42	ug/m3	2.99		TO-15	Total/NA
n-Heptane - DL	18		2.5	0.67	ug/m3	2.99		TO-15	Total/NA
Toluene - DL	18		2.3	0.70	ug/m3	2.99		TO-15	Total/NA
Ethylbenzene - DL	4.2		2.6	0.90	ug/m3	2.99		TO-15	Total/NA
m,p-Xylene - DL	16		6.5	1.2	ug/m3	2.99		TO-15	Total/NA
o-Xylene - DL	6.9		2.6	0.82	ug/m3	2.99		TO-15	Total/NA
n-Propylbenzene - DL	1.4	J	2.9	0.69	ug/m3	2.99		TO-15	Total/NA
4-Ethyltoluene - DL	2.3	J	2.9	0.72	ug/m3	2.99		TO-15	Total/NA
1,3,5-Trimethylbenzene - DL	2.3	J	2.9	0.69	ug/m3	2.99		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	13		2.9	1.2	ug/m3	2.99		TO-15	Total/NA
1,3-Dichlorobenzene - DL	2.1	J	3.6	1.3	ug/m3	2.99		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-3 (Continued)
Lab Sample ID: 480-227790-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.50		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	0.36	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.21	J	0.50	0.15	ppb v/v	1		TO-15	Total/NA
n-Butane	10		0.50	0.20	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.055	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.31		0.20	0.050	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.087	J	0.20	0.053	ppb v/v	1		TO-15	Total/NA
Acetone	55	E	5.0	1.6	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.21	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
n-Hexane	8.7		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	8.4		0.50	0.49	ppb v/v	1		TO-15	Total/NA
Chloroform	0.13	J	0.20	0.041	ppb v/v	1		TO-15	Total/NA
Cyclohexane	11		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.038		0.035	0.022	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.60		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Benzene	0.56		0.20	0.044	ppb v/v	1		TO-15	Total/NA
n-Heptane	4.3		0.20	0.055	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.24	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
Toluene	3.8		0.20	0.062	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.022	J	0.20	0.021	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.77		0.20	0.069	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	3.0		0.50	0.095	ppb v/v	1		TO-15	Total/NA
o-Xylene	1.3		0.20	0.063	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.22		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.36		0.20	0.049	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.34		0.20	0.047	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.9		0.20	0.080	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.27		0.20	0.074	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	0.55	J	1.5	0.33	ppb v/v	2.99		TO-15	Total/NA
Chlorodifluoromethane - DL	0.65	J	1.5	0.36	ppb v/v	2.99		TO-15	Total/NA
n-Butane - DL	14		1.5	0.60	ppb v/v	2.99		TO-15	Total/NA
Trichlorofluoromethane - DL	0.35	J	0.60	0.15	ppb v/v	2.99		TO-15	Total/NA
Acetone - DL	61		15	4.8	ppb v/v	2.99		TO-15	Total/NA
n-Hexane - DL	9.1		1.5	0.33	ppb v/v	2.99		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	8.7		1.5	1.5	ppb v/v	2.99		TO-15	Total/NA
Chloroform - DL	0.15	J	0.60	0.12	ppb v/v	2.99		TO-15	Total/NA
Cyclohexane - DL	12		0.60	0.17	ppb v/v	2.99		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	0.69		0.60	0.11	ppb v/v	2.99		TO-15	Total/NA
Benzene - DL	0.64		0.60	0.13	ppb v/v	2.99		TO-15	Total/NA
n-Heptane - DL	4.4		0.60	0.16	ppb v/v	2.99		TO-15	Total/NA
Toluene - DL	4.7		0.60	0.19	ppb v/v	2.99		TO-15	Total/NA
Ethylbenzene - DL	0.97		0.60	0.21	ppb v/v	2.99		TO-15	Total/NA
m,p-Xylene - DL	3.7		1.5	0.28	ppb v/v	2.99		TO-15	Total/NA
o-Xylene - DL	1.6		0.60	0.19	ppb v/v	2.99		TO-15	Total/NA
n-Propylbenzene - DL	0.28	J	0.60	0.14	ppb v/v	2.99		TO-15	Total/NA
4-Ethyltoluene - DL	0.46	J	0.60	0.15	ppb v/v	2.99		TO-15	Total/NA
1,3,5-Trimethylbenzene - DL	0.46	J	0.60	0.14	ppb v/v	2.99		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	2.7		0.60	0.24	ppb v/v	2.99		TO-15	Total/NA
1,3-Dichlorobenzene - DL	0.35	J	0.60	0.22	ppb v/v	2.99		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Client Sample ID: OA-1
Lab Sample ID: 480-227790-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.3	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	2.1		1.8	0.42	ug/m3	1		TO-15	Total/NA
Chloromethane	3.7		1.0	0.31	ug/m3	1		TO-15	Total/NA
n-Butane	2.9		1.2	0.48	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.4		1.1	0.28	ug/m3	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.46	J	1.5	0.41	ug/m3	1		TO-15	Total/NA
Acetone	28		12	3.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	5.3	J	12	3.9	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.6	J	1.7	0.63	ug/m3	1		TO-15	Total/NA
n-Hexane	0.95	J	1.8	0.39	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	7.9		1.5	1.4	ug/m3	1		TO-15	Total/NA
Chloroform	0.60	J	0.98	0.20	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.29	J	0.69	0.20	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.34		0.22	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.54	J	0.93	0.18	ug/m3	1		TO-15	Total/NA
Benzene	11		0.64	0.14	ug/m3	1		TO-15	Total/NA
n-Heptane	0.78	J	0.82	0.23	ug/m3	1		TO-15	Total/NA
Toluene	3.9		0.75	0.23	ug/m3	1		TO-15	Total/NA
Ethylbenzene	11		0.87	0.30	ug/m3	1		TO-15	Total/NA
m,p-Xylene	11		2.2	0.41	ug/m3	1		TO-15	Total/NA
o-Xylene	4.6		0.87	0.27	ug/m3	1		TO-15	Total/NA
Cumene	3.0		0.98	0.20	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	1.5		0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.7		0.98	0.24	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	2.1		0.98	0.23	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	7.0		0.98	0.39	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	1.3		1.1	0.33	ug/m3	1		TO-15	Total/NA
Naphthalene	6.8		2.0	1.6	ug/m3	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.46	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	0.58		0.50	0.12	ppb v/v	1		TO-15	Total/NA
Chloromethane	1.8		0.50	0.15	ppb v/v	1		TO-15	Total/NA
n-Butane	1.2		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.43		0.20	0.050	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.060	J	0.20	0.053	ppb v/v	1		TO-15	Total/NA
Acetone	12		5.0	1.6	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.1	J	5.0	1.6	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.47	J	0.50	0.18	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.27	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	2.7		0.50	0.49	ppb v/v	1		TO-15	Total/NA
Chloroform	0.12	J	0.20	0.041	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.084	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.054		0.035	0.022	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.12	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Benzene	3.3		0.20	0.044	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.19	J	0.20	0.055	ppb v/v	1		TO-15	Total/NA
Toluene	1.0		0.20	0.062	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	2.4		0.20	0.069	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	2.6		0.50	0.095	ppb v/v	1		TO-15	Total/NA
o-Xylene	1.0		0.20	0.063	ppb v/v	1		TO-15	Total/NA
Cumene	0.61		0.20	0.041	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: OA-1 (Continued)
Lab Sample ID: 480-227790-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Propylbenzene	0.31		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.35		0.20	0.049	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.42		0.20	0.047	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.4		0.20	0.080	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.23		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Naphthalene	1.3		0.38	0.30	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-3
Lab Sample ID: 480-227790-1

Date Collected: 02/26/25 13:30
Matrix: Air
Date Received: 03/08/25 11:00
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**2.5**		2.5	0.54	ug/m3			03/18/25 05:44	1
Chlorodifluoromethane	**1.3**	**J**	1.8	0.42	ug/m3			03/18/25 05:44	1
1,2-Dichlorotetrafluoroethane	ND		1.4	0.34	ug/m3			03/18/25 05:44	1
Chloromethane	**0.43**	**J**	1.0	0.31	ug/m3			03/18/25 05:44	1
n-Butane	**24**		1.2	0.48	ug/m3			03/18/25 05:44	1
Vinyl chloride	ND		0.20	0.054	ug/m3			03/18/25 05:44	1
1,3-Butadiene	**0.12**	**J**	0.44	0.086	ug/m3			03/18/25 05:44	1
Bromomethane	ND		0.78	0.28	ug/m3			03/18/25 05:44	1
Chloroethane	ND		1.3	0.47	ug/m3			03/18/25 05:44	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.22	ug/m3			03/18/25 05:44	1
Trichlorofluoromethane	**1.7**		1.1	0.28	ug/m3			03/18/25 05:44	1
1,1,2-Trichlorotrifluoroethane	**0.67**	**J**	1.5	0.41	ug/m3			03/18/25 05:44	1
1,1-Dichloroethene	ND		0.20	0.10	ug/m3			03/18/25 05:44	1
Acetone	**130**	**E**	12	3.8	ug/m3			03/18/25 05:44	1
Isopropyl alcohol	ND		12	3.9	ug/m3			03/18/25 05:44	1
Carbon disulfide	**0.66**	**J**	1.6	0.40	ug/m3			03/18/25 05:44	1
3-Chloropropene	ND		1.6	0.38	ug/m3			03/18/25 05:44	1
Methylene Chloride	ND		1.7	0.63	ug/m3			03/18/25 05:44	1
tert-Butyl alcohol	ND		15	3.6	ug/m3			03/18/25 05:44	1
Methyl tert-butyl ether	ND		0.72	0.13	ug/m3			03/18/25 05:44	1
trans-1,2-Dichloroethene	ND		0.79	0.091	ug/m3			03/18/25 05:44	1
n-Hexane	**31**		1.8	0.39	ug/m3			03/18/25 05:44	1
1,1-Dichloroethane	ND		0.81	0.10	ug/m3			03/18/25 05:44	1
Methyl Ethyl Ketone (2-Butanone)	**25**		1.5	1.4	ug/m3			03/18/25 05:44	1
cis-1,2-Dichloroethene	ND		0.20	0.083	ug/m3			03/18/25 05:44	1
Chloroform	**0.62**	**J**	0.98	0.20	ug/m3			03/18/25 05:44	1
Tetrahydrofuran	ND		15	3.8	ug/m3			03/18/25 05:44	1
1,1,1-Trichloroethane	ND		1.1	0.24	ug/m3			03/18/25 05:44	1
Cyclohexane	**38**		0.69	0.20	ug/m3			03/18/25 05:44	1
Carbon tetrachloride	**0.24**		0.22	0.14	ug/m3			03/18/25 05:44	1
2,2,4-Trimethylpentane	**2.8**		0.93	0.18	ug/m3			03/18/25 05:44	1
Benzene	**1.8**		0.64	0.14	ug/m3			03/18/25 05:44	1
1,2-Dichloroethane	ND		0.81	0.38	ug/m3			03/18/25 05:44	1
n-Heptane	**18**		0.82	0.23	ug/m3			03/18/25 05:44	1
Trichloroethene	ND		0.20	0.13	ug/m3			03/18/25 05:44	1
Methyl methacrylate	ND		2.0	0.57	ug/m3			03/18/25 05:44	1
1,2-Dichloropropane	ND		0.92	0.43	ug/m3			03/18/25 05:44	1
1,4-Dioxane	ND		18	0.30	ug/m3			03/18/25 05:44	1
Bromodichloromethane	ND		1.3	0.34	ug/m3			03/18/25 05:44	1
cis-1,3-Dichloropropene	ND		0.91	0.20	ug/m3			03/18/25 05:44	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	**1.0**	**J**	2.0	0.53	ug/m3			03/18/25 05:44	1
Toluene	**14**		0.75	0.23	ug/m3			03/18/25 05:44	1
trans-1,3-Dichloropropene	ND		0.91	0.25	ug/m3			03/18/25 05:44	1
1,1,2-Trichloroethane	ND		1.1	0.40	ug/m3			03/18/25 05:44	1
Tetrachloroethene	**0.15**	**J**	1.4	0.14	ug/m3			03/18/25 05:44	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	0.61	ug/m3			03/18/25 05:44	1
Dibromochloromethane	ND		1.7	0.54	ug/m3			03/18/25 05:44	1
1,2-Dibromoethane	ND		1.5	0.32	ug/m3			03/18/25 05:44	1

Client Sample ID: SV-3
Lab Sample ID: 480-227790-1
Date Collected: 02/26/25 13:30
Matrix: Air
Date Received: 03/08/25 11:00
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.92	0.20	ug/m3			03/18/25 05:44	1
Ethylbenzene	**3.3**		0.87	0.30	ug/m3			03/18/25 05:44	1
m,p-Xylene	**13**		2.2	0.41	ug/m3			03/18/25 05:44	1
o-Xylene	**5.8**		0.87	0.27	ug/m3			03/18/25 05:44	1
Styrene	ND		0.85	0.25	ug/m3			03/18/25 05:44	1
Bromoform	ND		2.1	1.2	ug/m3			03/18/25 05:44	1
Cumene	ND		0.98	0.20	ug/m3			03/18/25 05:44	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.30	ug/m3			03/18/25 05:44	1
n-Propylbenzene	**1.1**		0.98	0.23	ug/m3			03/18/25 05:44	1
4-Ethyltoluene	**1.8**		0.98	0.24	ug/m3			03/18/25 05:44	1
1,3,5-Trimethylbenzene	**1.7**		0.98	0.23	ug/m3			03/18/25 05:44	1
2-Chlorotoluene	ND		1.0	0.24	ug/m3			03/18/25 05:44	1
tert-Butylbenzene	ND		1.1	0.26	ug/m3			03/18/25 05:44	1
1,2,4-Trimethylbenzene	**9.2**		0.98	0.39	ug/m3			03/18/25 05:44	1
sec-Butylbenzene	ND		1.1	0.25	ug/m3			03/18/25 05:44	1
4-Isopropyltoluene	ND		1.1	0.33	ug/m3			03/18/25 05:44	1
1,3-Dichlorobenzene	**1.6**		1.2	0.44	ug/m3			03/18/25 05:44	1
1,4-Dichlorobenzene	ND		1.2	0.54	ug/m3			03/18/25 05:44	1
Benzyl chloride	ND		1.0	0.46	ug/m3			03/18/25 05:44	1
n-Butylbenzene	ND		1.1	0.60	ug/m3			03/18/25 05:44	1
1,2-Dichlorobenzene	ND		1.2	0.40	ug/m3			03/18/25 05:44	1
1,2,4-Trichlorobenzene	ND		3.7	2.4	ug/m3			03/18/25 05:44	1
Hexachlorobutadiene	ND		2.1	1.2	ug/m3			03/18/25 05:44	1
Naphthalene	ND		2.0	1.6	ug/m3			03/18/25 05:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.50**		0.50	0.11	ppb v/v			03/18/25 05:44	1
Chlorodifluoromethane	**0.36**	**J**	0.50	0.12	ppb v/v			03/18/25 05:44	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.048	ppb v/v			03/18/25 05:44	1
Chloromethane	**0.21**	**J**	0.50	0.15	ppb v/v			03/18/25 05:44	1
n-Butane	**10**		0.50	0.20	ppb v/v			03/18/25 05:44	1
Vinyl chloride	ND		0.078	0.021	ppb v/v			03/18/25 05:44	1
1,3-Butadiene	**0.055**	**J**	0.20	0.039	ppb v/v			03/18/25 05:44	1
Bromomethane	ND		0.20	0.071	ppb v/v			03/18/25 05:44	1
Chloroethane	ND		0.50	0.18	ppb v/v			03/18/25 05:44	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.050	ppb v/v			03/18/25 05:44	1
Trichlorofluoromethane	**0.31**		0.20	0.050	ppb v/v			03/18/25 05:44	1
1,1,2-Trichlorotrifluoroethane	**0.087**	**J**	0.20	0.053	ppb v/v			03/18/25 05:44	1
1,1-Dichloroethene	ND		0.050	0.026	ppb v/v			03/18/25 05:44	1
Acetone	**55**	**E**	5.0	1.6	ppb v/v			03/18/25 05:44	1
Isopropyl alcohol	ND		5.0	1.6	ppb v/v			03/18/25 05:44	1
Carbon disulfide	**0.21**	**J**	0.50	0.13	ppb v/v			03/18/25 05:44	1
3-Chloropropene	ND		0.50	0.12	ppb v/v			03/18/25 05:44	1
Methylene Chloride	ND		0.50	0.18	ppb v/v			03/18/25 05:44	1
tert-Butyl alcohol	ND		5.0	1.2	ppb v/v			03/18/25 05:44	1
Methyl tert-butyl ether	ND		0.20	0.036	ppb v/v			03/18/25 05:44	1
trans-1,2-Dichloroethene	ND		0.20	0.023	ppb v/v			03/18/25 05:44	1
n-Hexane	**8.7**		0.50	0.11	ppb v/v			03/18/25 05:44	1
1,1-Dichloroethane	ND		0.20	0.025	ppb v/v			03/18/25 05:44	1

Client Sample ID: SV-3
Lab Sample ID: 480-227790-1
Date Collected: 02/26/25 13:30
Matrix: Air
Date Received: 03/08/25 11:00
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	**8.4**		0.50	0.49	ppb v/v			03/18/25 05:44	1
cis-1,2-Dichloroethene	ND		0.050	0.021	ppb v/v			03/18/25 05:44	1
Chloroform	**0.13**	**J**	0.20	0.041	ppb v/v			03/18/25 05:44	1
Tetrahydrofuran	ND		5.0	1.3	ppb v/v			03/18/25 05:44	1
1,1,1-Trichloroethane	ND		0.20	0.044	ppb v/v			03/18/25 05:44	1
Cyclohexane	**11**		0.20	0.058	ppb v/v			03/18/25 05:44	1
Carbon tetrachloride	**0.038**		0.035	0.022	ppb v/v			03/18/25 05:44	1
2,2,4-Trimethylpentane	**0.60**		0.20	0.038	ppb v/v			03/18/25 05:44	1
Benzene	**0.56**		0.20	0.044	ppb v/v			03/18/25 05:44	1
1,2-Dichloroethane	ND		0.20	0.093	ppb v/v			03/18/25 05:44	1
n-Heptane	**4.3**		0.20	0.055	ppb v/v			03/18/25 05:44	1
Trichloroethene	ND		0.037	0.025	ppb v/v			03/18/25 05:44	1
Methyl methacrylate	ND		0.50	0.14	ppb v/v			03/18/25 05:44	1
1,2-Dichloropropane	ND		0.20	0.094	ppb v/v			03/18/25 05:44	1
1,4-Dioxane	ND		5.0	0.082	ppb v/v			03/18/25 05:44	1
Bromodichloromethane	ND		0.20	0.050	ppb v/v			03/18/25 05:44	1
cis-1,3-Dichloropropene	ND		0.20	0.045	ppb v/v			03/18/25 05:44	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	**0.24**	**J**	0.50	0.13	ppb v/v			03/18/25 05:44	1
Toluene	**3.8**		0.20	0.062	ppb v/v			03/18/25 05:44	1
trans-1,3-Dichloropropene	ND		0.20	0.054	ppb v/v			03/18/25 05:44	1
1,1,2-Trichloroethane	ND		0.20	0.074	ppb v/v			03/18/25 05:44	1
Tetrachloroethene	**0.022**	**J**	0.20	0.021	ppb v/v			03/18/25 05:44	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.15	ppb v/v			03/18/25 05:44	1
Dibromochloromethane	ND		0.20	0.063	ppb v/v			03/18/25 05:44	1
1,2-Dibromoethane	ND		0.20	0.042	ppb v/v			03/18/25 05:44	1
Chlorobenzene	ND		0.20	0.044	ppb v/v			03/18/25 05:44	1
Ethylbenzene	**0.77**		0.20	0.069	ppb v/v			03/18/25 05:44	1
m,p-Xylene	**3.0**		0.50	0.095	ppb v/v			03/18/25 05:44	1
o-Xylene	**1.3**		0.20	0.063	ppb v/v			03/18/25 05:44	1
Styrene	ND		0.20	0.059	ppb v/v			03/18/25 05:44	1
Bromoform	ND		0.20	0.12	ppb v/v			03/18/25 05:44	1
Cumene	ND		0.20	0.041	ppb v/v			03/18/25 05:44	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.043	ppb v/v			03/18/25 05:44	1
n-Propylbenzene	**0.22**		0.20	0.047	ppb v/v			03/18/25 05:44	1
4-Ethyltoluene	**0.36**		0.20	0.049	ppb v/v			03/18/25 05:44	1
1,3,5-Trimethylbenzene	**0.34**		0.20	0.047	ppb v/v			03/18/25 05:44	1
2-Chlorotoluene	ND		0.20	0.046	ppb v/v			03/18/25 05:44	1
tert-Butylbenzene	ND		0.20	0.047	ppb v/v			03/18/25 05:44	1
1,2,4-Trimethylbenzene	**1.9**		0.20	0.080	ppb v/v			03/18/25 05:44	1
sec-Butylbenzene	ND		0.20	0.045	ppb v/v			03/18/25 05:44	1
4-Isopropyltoluene	ND		0.20	0.061	ppb v/v			03/18/25 05:44	1
1,3-Dichlorobenzene	**0.27**		0.20	0.074	ppb v/v			03/18/25 05:44	1
1,4-Dichlorobenzene	ND		0.20	0.089	ppb v/v			03/18/25 05:44	1
Benzyl chloride	ND		0.20	0.088	ppb v/v			03/18/25 05:44	1
n-Butylbenzene	ND		0.20	0.11	ppb v/v			03/18/25 05:44	1
1,2-Dichlorobenzene	ND		0.20	0.066	ppb v/v			03/18/25 05:44	1
1,2,4-Trichlorobenzene	ND		0.50	0.33	ppb v/v			03/18/25 05:44	1
Hexachlorobutadiene	ND		0.20	0.11	ppb v/v			03/18/25 05:44	1

Client Sample ID: SV-3
Lab Sample ID: 480-227790-1
Date Collected: 02/26/25 13:30
Matrix: Air
Date Received: 03/08/25 11:00
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.38	0.30	ppb v/v			03/18/25 05:44	1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**2.7**	**J**	7.4	1.6	ug/m3			03/18/25 13:28	2.99
Chlorodifluoromethane	**2.3**	**J**	5.3	1.3	ug/m3			03/18/25 13:28	2.99
1,2-Dichlorotetrafluoroethane	ND		4.2	1.0	ug/m3			03/18/25 13:28	2.99
Chloromethane	ND		3.1	0.93	ug/m3			03/18/25 13:28	2.99
n-Butane	**33**		3.6	1.4	ug/m3			03/18/25 13:28	2.99
Vinyl chloride	ND		0.60	0.16	ug/m3			03/18/25 13:28	2.99
1,3-Butadiene	ND		1.3	0.26	ug/m3			03/18/25 13:28	2.99
Bromomethane	ND		2.3	0.82	ug/m3			03/18/25 13:28	2.99
Chloroethane	ND		3.9	1.4	ug/m3			03/18/25 13:28	2.99
Bromoethene(Vinyl Bromide)	ND		2.6	0.65	ug/m3			03/18/25 13:28	2.99
Trichlorofluoromethane	**2.0**	**J**	3.4	0.84	ug/m3			03/18/25 13:28	2.99
1,1,2-Trichlorotrifluoroethane	ND		4.6	1.2	ug/m3			03/18/25 13:28	2.99
1,1-Dichloroethene	ND		0.60	0.31	ug/m3			03/18/25 13:28	2.99
Acetone	**150**		36	11	ug/m3			03/18/25 13:28	2.99
Isopropyl alcohol	ND		37	12	ug/m3			03/18/25 13:28	2.99
Carbon disulfide	ND		4.7	1.2	ug/m3			03/18/25 13:28	2.99
3-Chloropropene	ND		4.7	1.1	ug/m3			03/18/25 13:28	2.99
Methylene Chloride	ND		5.2	1.9	ug/m3			03/18/25 13:28	2.99
tert-Butyl alcohol	ND		45	11	ug/m3			03/18/25 13:28	2.99
Methyl tert-butyl ether	ND		2.2	0.39	ug/m3			03/18/25 13:28	2.99
trans-1,2-Dichloroethene	ND		2.4	0.27	ug/m3			03/18/25 13:28	2.99
n-Hexane	**32**		5.3	1.2	ug/m3			03/18/25 13:28	2.99
1,1-Dichloroethane	ND		2.4	0.30	ug/m3			03/18/25 13:28	2.99
Methyl Ethyl Ketone (2-Butanone)	**26**		4.4	4.3	ug/m3			03/18/25 13:28	2.99
cis-1,2-Dichloroethene	ND		0.60	0.25	ug/m3			03/18/25 13:28	2.99
Chloroform	**0.72**	**J**	2.9	0.60	ug/m3			03/18/25 13:28	2.99
Tetrahydrofuran	ND		44	11	ug/m3			03/18/25 13:28	2.99
1,1,1-Trichloroethane	ND		3.3	0.72	ug/m3			03/18/25 13:28	2.99
Cyclohexane	**40**		2.1	0.60	ug/m3			03/18/25 13:28	2.99
Carbon tetrachloride	ND		0.66	0.41	ug/m3			03/18/25 13:28	2.99
2,2,4-Trimethylpentane	**3.2**		2.8	0.53	ug/m3			03/18/25 13:28	2.99
Benzene	**2.0**		1.9	0.42	ug/m3			03/18/25 13:28	2.99
1,2-Dichloroethane	ND		2.4	1.1	ug/m3			03/18/25 13:28	2.99
n-Heptane	**18**		2.5	0.67	ug/m3			03/18/25 13:28	2.99
Trichloroethene	ND		0.60	0.40	ug/m3			03/18/25 13:28	2.99
Methyl methacrylate	ND		6.1	1.7	ug/m3			03/18/25 13:28	2.99
1,2-Dichloropropane	ND		2.8	1.3	ug/m3			03/18/25 13:28	2.99
1,4-Dioxane	ND		54	0.88	ug/m3			03/18/25 13:28	2.99
Bromodichloromethane	ND		4.0	1.0	ug/m3			03/18/25 13:28	2.99
cis-1,3-Dichloropropene	ND		2.7	0.61	ug/m3			03/18/25 13:28	2.99
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		6.1	1.6	ug/m3			03/18/25 13:28	2.99
Toluene	**18**		2.3	0.70	ug/m3			03/18/25 13:28	2.99
trans-1,3-Dichloropropene	ND		2.7	0.73	ug/m3			03/18/25 13:28	2.99
1,1,2-Trichloroethane	ND		3.3	1.2	ug/m3			03/18/25 13:28	2.99

Client Sample ID: SV-3
Lab Sample ID: 480-227790-1
Date Collected: 02/26/25 13:30
Matrix: Air
Date Received: 03/08/25 11:00
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		4.1	0.43	ug/m3			03/18/25 13:28	2.99
Methyl Butyl Ketone (2-Hexanone)	ND		6.1	1.8	ug/m3			03/18/25 13:28	2.99
Dibromochloromethane	ND		5.1	1.6	ug/m3			03/18/25 13:28	2.99
1,2-Dibromoethane	ND		4.6	0.96	ug/m3			03/18/25 13:28	2.99
Chlorobenzene	ND		2.8	0.61	ug/m3			03/18/25 13:28	2.99
Ethylbenzene	**4.2**		2.6	0.90	ug/m3			03/18/25 13:28	2.99
m,p-Xylene	**16**		6.5	1.2	ug/m3			03/18/25 13:28	2.99
o-Xylene	**6.9**		2.6	0.82	ug/m3			03/18/25 13:28	2.99
Styrene	ND		2.5	0.75	ug/m3			03/18/25 13:28	2.99
Bromoform	ND		6.2	3.7	ug/m3			03/18/25 13:28	2.99
Cumene	ND		2.9	0.60	ug/m3			03/18/25 13:28	2.99
1,1,2,2-Tetrachloroethane	ND		4.1	0.88	ug/m3			03/18/25 13:28	2.99
n-Propylbenzene	**1.4**	**J**	2.9	0.69	ug/m3			03/18/25 13:28	2.99
4-Ethyltoluene	**2.3**	**J**	2.9	0.72	ug/m3			03/18/25 13:28	2.99
1,3,5-Trimethylbenzene	**2.3**	**J**	2.9	0.69	ug/m3			03/18/25 13:28	2.99
2-Chlorotoluene	ND		3.1	0.71	ug/m3			03/18/25 13:28	2.99
tert-Butylbenzene	ND		3.3	0.77	ug/m3			03/18/25 13:28	2.99
1,2,4-Trimethylbenzene	**13**		2.9	1.2	ug/m3			03/18/25 13:28	2.99
sec-Butylbenzene	ND		3.3	0.74	ug/m3			03/18/25 13:28	2.99
4-Isopropyltoluene	ND		3.3	1.0	ug/m3			03/18/25 13:28	2.99
1,3-Dichlorobenzene	**2.1**	**J**	3.6	1.3	ug/m3			03/18/25 13:28	2.99
1,4-Dichlorobenzene	ND		3.6	1.6	ug/m3			03/18/25 13:28	2.99
Benzyl chloride	ND		3.1	1.4	ug/m3			03/18/25 13:28	2.99
n-Butylbenzene	ND		3.3	1.8	ug/m3			03/18/25 13:28	2.99
1,2-Dichlorobenzene	ND		3.6	1.2	ug/m3			03/18/25 13:28	2.99
1,2,4-Trichlorobenzene	ND		11	7.3	ug/m3			03/18/25 13:28	2.99
Hexachlorobutadiene	ND		6.4	3.5	ug/m3			03/18/25 13:28	2.99
Naphthalene	ND		6.0	4.7	ug/m3			03/18/25 13:28	2.99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.55**	**J**	1.5	0.33	ppb v/v			03/18/25 13:28	2.99
Chlorodifluoromethane	**0.65**	**J**	1.5	0.36	ppb v/v			03/18/25 13:28	2.99
1,2-Dichlorotetrafluoroethane	ND		0.60	0.14	ppb v/v			03/18/25 13:28	2.99
Chloromethane	ND		1.5	0.45	ppb v/v			03/18/25 13:28	2.99
n-Butane	**14**		1.5	0.60	ppb v/v			03/18/25 13:28	2.99
Vinyl chloride	ND		0.23	0.063	ppb v/v			03/18/25 13:28	2.99
1,3-Butadiene	ND		0.60	0.12	ppb v/v			03/18/25 13:28	2.99
Bromomethane	ND		0.60	0.21	ppb v/v			03/18/25 13:28	2.99
Chloroethane	ND		1.5	0.54	ppb v/v			03/18/25 13:28	2.99
Bromoethene(Vinyl Bromide)	ND		0.60	0.15	ppb v/v			03/18/25 13:28	2.99
Trichlorofluoromethane	**0.35**	**J**	0.60	0.15	ppb v/v			03/18/25 13:28	2.99
1,1,2-Trichlorotrifluoroethane	ND		0.60	0.16	ppb v/v			03/18/25 13:28	2.99
1,1-Dichloroethene	ND		0.15	0.078	ppb v/v			03/18/25 13:28	2.99
Acetone	**61**		15	4.8	ppb v/v			03/18/25 13:28	2.99
Isopropyl alcohol	ND		15	4.8	ppb v/v			03/18/25 13:28	2.99
Carbon disulfide	ND		1.5	0.39	ppb v/v			03/18/25 13:28	2.99
3-Chloropropene	ND		1.5	0.36	ppb v/v			03/18/25 13:28	2.99
Methylene Chloride	ND		1.5	0.54	ppb v/v			03/18/25 13:28	2.99
tert-Butyl alcohol	ND		15	3.6	ppb v/v			03/18/25 13:28	2.99

Client Sample ID: SV-3
Lab Sample ID: 480-227790-1
Date Collected: 02/26/25 13:30
Matrix: Air
Date Received: 03/08/25 11:00
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.60	0.11	ppb v/v			03/18/25 13:28	2.99
trans-1,2-Dichloroethene	ND		0.60	0.069	ppb v/v			03/18/25 13:28	2.99
n-Hexane	**9.1**		1.5	0.33	ppb v/v			03/18/25 13:28	2.99
1,1-Dichloroethane	ND		0.60	0.075	ppb v/v			03/18/25 13:28	2.99
Methyl Ethyl Ketone (2-Butanone)	**8.7**		1.5	1.5	ppb v/v			03/18/25 13:28	2.99
cis-1,2-Dichloroethene	ND		0.15	0.063	ppb v/v			03/18/25 13:28	2.99
Chloroform	**0.15**	**J**	0.60	0.12	ppb v/v			03/18/25 13:28	2.99
Tetrahydrofuran	ND		15	3.9	ppb v/v			03/18/25 13:28	2.99
1,1,1-Trichloroethane	ND		0.60	0.13	ppb v/v			03/18/25 13:28	2.99
Cyclohexane	**12**		0.60	0.17	ppb v/v			03/18/25 13:28	2.99
Carbon tetrachloride	ND		0.10	0.066	ppb v/v			03/18/25 13:28	2.99
2,2,4-Trimethylpentane	**0.69**		0.60	0.11	ppb v/v			03/18/25 13:28	2.99
Benzene	**0.64**		0.60	0.13	ppb v/v			03/18/25 13:28	2.99
1,2-Dichloroethane	ND		0.60	0.28	ppb v/v			03/18/25 13:28	2.99
n-Heptane	**4.4**		0.60	0.16	ppb v/v			03/18/25 13:28	2.99
Trichloroethene	ND		0.11	0.075	ppb v/v			03/18/25 13:28	2.99
Methyl methacrylate	ND		1.5	0.42	ppb v/v			03/18/25 13:28	2.99
1,2-Dichloropropane	ND		0.60	0.28	ppb v/v			03/18/25 13:28	2.99
1,4-Dioxane	ND		15	0.25	ppb v/v			03/18/25 13:28	2.99
Bromodichloromethane	ND		0.60	0.15	ppb v/v			03/18/25 13:28	2.99
cis-1,3-Dichloropropene	ND		0.60	0.13	ppb v/v			03/18/25 13:28	2.99
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		1.5	0.39	ppb v/v			03/18/25 13:28	2.99
Toluene	**4.7**		0.60	0.19	ppb v/v			03/18/25 13:28	2.99
trans-1,3-Dichloropropene	ND		0.60	0.16	ppb v/v			03/18/25 13:28	2.99
1,1,2-Trichloroethane	ND		0.60	0.22	ppb v/v			03/18/25 13:28	2.99
Tetrachloroethene	ND		0.60	0.063	ppb v/v			03/18/25 13:28	2.99
Methyl Butyl Ketone (2-Hexanone)	ND		1.5	0.45	ppb v/v			03/18/25 13:28	2.99
Dibromochloromethane	ND		0.60	0.19	ppb v/v			03/18/25 13:28	2.99
1,2-Dibromoethane	ND		0.60	0.13	ppb v/v			03/18/25 13:28	2.99
Chlorobenzene	ND		0.60	0.13	ppb v/v			03/18/25 13:28	2.99
Ethylbenzene	**0.97**		0.60	0.21	ppb v/v			03/18/25 13:28	2.99
m,p-Xylene	**3.7**		1.5	0.28	ppb v/v			03/18/25 13:28	2.99
o-Xylene	**1.6**		0.60	0.19	ppb v/v			03/18/25 13:28	2.99
Styrene	ND		0.60	0.18	ppb v/v			03/18/25 13:28	2.99
Bromoform	ND		0.60	0.36	ppb v/v			03/18/25 13:28	2.99
Cumene	ND		0.60	0.12	ppb v/v			03/18/25 13:28	2.99
1,1,2,2-Tetrachloroethane	ND		0.60	0.13	ppb v/v			03/18/25 13:28	2.99
n-Propylbenzene	**0.28**	**J**	0.60	0.14	ppb v/v			03/18/25 13:28	2.99
4-Ethyltoluene	**0.46**	**J**	0.60	0.15	ppb v/v			03/18/25 13:28	2.99
1,3,5-Trimethylbenzene	**0.46**	**J**	0.60	0.14	ppb v/v			03/18/25 13:28	2.99
2-Chlorotoluene	ND		0.60	0.14	ppb v/v			03/18/25 13:28	2.99
tert-Butylbenzene	ND		0.60	0.14	ppb v/v			03/18/25 13:28	2.99
1,2,4-Trimethylbenzene	**2.7**		0.60	0.24	ppb v/v			03/18/25 13:28	2.99
sec-Butylbenzene	ND		0.60	0.13	ppb v/v			03/18/25 13:28	2.99
4-Isopropyltoluene	ND		0.60	0.18	ppb v/v			03/18/25 13:28	2.99
1,3-Dichlorobenzene	**0.35**	**J**	0.60	0.22	ppb v/v			03/18/25 13:28	2.99
1,4-Dichlorobenzene	ND		0.60	0.27	ppb v/v			03/18/25 13:28	2.99
Benzyl chloride	ND		0.60	0.26	ppb v/v			03/18/25 13:28	2.99

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Client Sample ID: SV-3
Lab Sample ID: 480-227790-1
Date Collected: 02/26/25 13:30
Matrix: Air
Date Received: 03/08/25 11:00
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.60	0.33	ppb v/v			03/18/25 13:28	2.99
1,2-Dichlorobenzene	ND		0.60	0.20	ppb v/v			03/18/25 13:28	2.99
1,2,4-Trichlorobenzene	ND		1.5	0.99	ppb v/v			03/18/25 13:28	2.99
Hexachlorobutadiene	ND		0.60	0.33	ppb v/v			03/18/25 13:28	2.99
Naphthalene	ND		1.1	0.90	ppb v/v			03/18/25 13:28	2.99

Client Sample ID: OA-1
Lab Sample ID: 480-227790-2

Date Collected: 02/26/25 13:00
Matrix: Air
Date Received: 03/08/25 11:00
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**2.3**	**J**	2.5	0.54	ug/m3			03/18/25 14:19	1
Chlorodifluoromethane	**2.1**		1.8	0.42	ug/m3			03/18/25 14:19	1
1,2-Dichlorotetrafluoroethane	ND		1.4	0.34	ug/m3			03/18/25 14:19	1
Chloromethane	**3.7**		1.0	0.31	ug/m3			03/18/25 14:19	1
n-Butane	**2.9**		1.2	0.48	ug/m3			03/18/25 14:19	1
Vinyl chloride	ND		0.20	0.054	ug/m3			03/18/25 14:19	1
1,3-Butadiene	ND		0.44	0.086	ug/m3			03/18/25 14:19	1
Bromomethane	ND		0.78	0.28	ug/m3			03/18/25 14:19	1
Chloroethane	ND		1.3	0.47	ug/m3			03/18/25 14:19	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.22	ug/m3			03/18/25 14:19	1
Trichlorofluoromethane	**2.4**		1.1	0.28	ug/m3			03/18/25 14:19	1
1,1,2-Trichlorotrifluoroethane	**0.46**	**J**	1.5	0.41	ug/m3			03/18/25 14:19	1
1,1-Dichloroethene	ND		0.20	0.10	ug/m3			03/18/25 14:19	1
Acetone	**28**		12	3.8	ug/m3			03/18/25 14:19	1
Isopropyl alcohol	**5.3**	**J**	12	3.9	ug/m3			03/18/25 14:19	1
Carbon disulfide	ND		1.6	0.40	ug/m3			03/18/25 14:19	1
3-Chloropropene	ND		1.6	0.38	ug/m3			03/18/25 14:19	1
Methylene Chloride	**1.6**	**J**	1.7	0.63	ug/m3			03/18/25 14:19	1
tert-Butyl alcohol	ND		15	3.6	ug/m3			03/18/25 14:19	1
Methyl tert-butyl ether	ND		0.72	0.13	ug/m3			03/18/25 14:19	1
trans-1,2-Dichloroethene	ND		0.79	0.091	ug/m3			03/18/25 14:19	1
n-Hexane	**0.95**	**J**	1.8	0.39	ug/m3			03/18/25 14:19	1
1,1-Dichloroethane	ND		0.81	0.10	ug/m3			03/18/25 14:19	1
Methyl Ethyl Ketone (2-Butanone)	**7.9**		1.5	1.4	ug/m3			03/18/25 14:19	1
cis-1,2-Dichloroethene	ND		0.20	0.083	ug/m3			03/18/25 14:19	1
Chloroform	**0.60**	**J**	0.98	0.20	ug/m3			03/18/25 14:19	1
Tetrahydrofuran	ND		15	3.8	ug/m3			03/18/25 14:19	1
1,1,1-Trichloroethane	ND		1.1	0.24	ug/m3			03/18/25 14:19	1
Cyclohexane	**0.29**	**J**	0.69	0.20	ug/m3			03/18/25 14:19	1
Carbon tetrachloride	**0.34**		0.22	0.14	ug/m3			03/18/25 14:19	1
2,2,4-Trimethylpentane	**0.54**	**J**	0.93	0.18	ug/m3			03/18/25 14:19	1
Benzene	**11**		0.64	0.14	ug/m3			03/18/25 14:19	1
1,2-Dichloroethane	ND		0.81	0.38	ug/m3			03/18/25 14:19	1
n-Heptane	**0.78**	**J**	0.82	0.23	ug/m3			03/18/25 14:19	1
Trichloroethene	ND		0.20	0.13	ug/m3			03/18/25 14:19	1
Methyl methacrylate	ND		2.0	0.57	ug/m3			03/18/25 14:19	1
1,2-Dichloropropane	ND		0.92	0.43	ug/m3			03/18/25 14:19	1
1,4-Dioxane	ND		18	0.30	ug/m3			03/18/25 14:19	1
Bromodichloromethane	ND		1.3	0.34	ug/m3			03/18/25 14:19	1
cis-1,3-Dichloropropene	ND		0.91	0.20	ug/m3			03/18/25 14:19	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		2.0	0.53	ug/m3			03/18/25 14:19	1
Toluene	**3.9**		0.75	0.23	ug/m3			03/18/25 14:19	1
trans-1,3-Dichloropropene	ND		0.91	0.25	ug/m3			03/18/25 14:19	1
1,1,2-Trichloroethane	ND		1.1	0.40	ug/m3			03/18/25 14:19	1
Tetrachloroethene	ND		1.4	0.14	ug/m3			03/18/25 14:19	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	0.61	ug/m3			03/18/25 14:19	1
Dibromochloromethane	ND		1.7	0.54	ug/m3			03/18/25 14:19	1
1,2-Dibromoethane	ND		1.5	0.32	ug/m3			03/18/25 14:19	1

Client Sample ID: OA-1
Lab Sample ID: 480-227790-2

Date Collected: 02/26/25 13:00
Matrix: Air
Date Received: 03/08/25 11:00
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.92	0.20	ug/m3			03/18/25 14:19	1
Ethylbenzene	**11**		0.87	0.30	ug/m3			03/18/25 14:19	1
m,p-Xylene	**11**		2.2	0.41	ug/m3			03/18/25 14:19	1
o-Xylene	**4.6**		0.87	0.27	ug/m3			03/18/25 14:19	1
Styrene	ND		0.85	0.25	ug/m3			03/18/25 14:19	1
Bromoform	ND		2.1	1.2	ug/m3			03/18/25 14:19	1
Cumene	**3.0**		0.98	0.20	ug/m3			03/18/25 14:19	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.30	ug/m3			03/18/25 14:19	1
n-Propylbenzene	**1.5**		0.98	0.23	ug/m3			03/18/25 14:19	1
4-Ethyltoluene	**1.7**		0.98	0.24	ug/m3			03/18/25 14:19	1
1,3,5-Trimethylbenzene	**2.1**		0.98	0.23	ug/m3			03/18/25 14:19	1
2-Chlorotoluene	ND		1.0	0.24	ug/m3			03/18/25 14:19	1
tert-Butylbenzene	ND		1.1	0.26	ug/m3			03/18/25 14:19	1
1,2,4-Trimethylbenzene	**7.0**		0.98	0.39	ug/m3			03/18/25 14:19	1
sec-Butylbenzene	ND		1.1	0.25	ug/m3			03/18/25 14:19	1
4-Isopropyltoluene	**1.3**		1.1	0.33	ug/m3			03/18/25 14:19	1
1,3-Dichlorobenzene	ND		1.2	0.44	ug/m3			03/18/25 14:19	1
1,4-Dichlorobenzene	ND		1.2	0.54	ug/m3			03/18/25 14:19	1
Benzyl chloride	ND		1.0	0.46	ug/m3			03/18/25 14:19	1
n-Butylbenzene	ND		1.1	0.60	ug/m3			03/18/25 14:19	1
1,2-Dichlorobenzene	ND		1.2	0.40	ug/m3			03/18/25 14:19	1
1,2,4-Trichlorobenzene	ND		3.7	2.4	ug/m3			03/18/25 14:19	1
Hexachlorobutadiene	ND		2.1	1.2	ug/m3			03/18/25 14:19	1
Naphthalene	**6.8**		2.0	1.6	ug/m3			03/18/25 14:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.46**	**J**	0.50	0.11	ppb v/v			03/18/25 14:19	1
Chlorodifluoromethane	**0.58**		0.50	0.12	ppb v/v			03/18/25 14:19	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.048	ppb v/v			03/18/25 14:19	1
Chloromethane	**1.8**		0.50	0.15	ppb v/v			03/18/25 14:19	1
n-Butane	**1.2**		0.50	0.20	ppb v/v			03/18/25 14:19	1
Vinyl chloride	ND		0.078	0.021	ppb v/v			03/18/25 14:19	1
1,3-Butadiene	ND		0.20	0.039	ppb v/v			03/18/25 14:19	1
Bromomethane	ND		0.20	0.071	ppb v/v			03/18/25 14:19	1
Chloroethane	ND		0.50	0.18	ppb v/v			03/18/25 14:19	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.050	ppb v/v			03/18/25 14:19	1
Trichlorofluoromethane	**0.43**		0.20	0.050	ppb v/v			03/18/25 14:19	1
1,1,2-Trichlorotrifluoroethane	**0.060**	**J**	0.20	0.053	ppb v/v			03/18/25 14:19	1
1,1-Dichloroethene	ND		0.050	0.026	ppb v/v			03/18/25 14:19	1
Acetone	**12**		5.0	1.6	ppb v/v			03/18/25 14:19	1
Isopropyl alcohol	**2.1**	**J**	5.0	1.6	ppb v/v			03/18/25 14:19	1
Carbon disulfide	ND		0.50	0.13	ppb v/v			03/18/25 14:19	1
3-Chloropropene	ND		0.50	0.12	ppb v/v			03/18/25 14:19	1
Methylene Chloride	**0.47**	**J**	0.50	0.18	ppb v/v			03/18/25 14:19	1
tert-Butyl alcohol	ND		5.0	1.2	ppb v/v			03/18/25 14:19	1
Methyl tert-butyl ether	ND		0.20	0.036	ppb v/v			03/18/25 14:19	1
trans-1,2-Dichloroethene	ND		0.20	0.023	ppb v/v			03/18/25 14:19	1
n-Hexane	**0.27**	**J**	0.50	0.11	ppb v/v			03/18/25 14:19	1
1,1-Dichloroethane	ND		0.20	0.025	ppb v/v			03/18/25 14:19	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Client Sample ID: OA-1
Lab Sample ID: 480-227790-2

Date Collected: 02/26/25 13:00
Matrix: Air
Date Received: 03/08/25 11:00
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	**2.7**		0.50	0.49	ppb v/v			03/18/25 14:19	1
cis-1,2-Dichloroethene	ND		0.050	0.021	ppb v/v			03/18/25 14:19	1
Chloroform	**0.12**	**J**	0.20	0.041	ppb v/v			03/18/25 14:19	1
Tetrahydrofuran	ND		5.0	1.3	ppb v/v			03/18/25 14:19	1
1,1,1-Trichloroethane	ND		0.20	0.044	ppb v/v			03/18/25 14:19	1
Cyclohexane	**0.084**	**J**	0.20	0.058	ppb v/v			03/18/25 14:19	1
Carbon tetrachloride	**0.054**		0.035	0.022	ppb v/v			03/18/25 14:19	1
2,2,4-Trimethylpentane	**0.12**	**J**	0.20	0.038	ppb v/v			03/18/25 14:19	1
Benzene	**3.3**		0.20	0.044	ppb v/v			03/18/25 14:19	1
1,2-Dichloroethane	ND		0.20	0.093	ppb v/v			03/18/25 14:19	1
n-Heptane	**0.19**	**J**	0.20	0.055	ppb v/v			03/18/25 14:19	1
Trichloroethene	ND		0.037	0.025	ppb v/v			03/18/25 14:19	1
Methyl methacrylate	ND		0.50	0.14	ppb v/v			03/18/25 14:19	1
1,2-Dichloropropane	ND		0.20	0.094	ppb v/v			03/18/25 14:19	1
1,4-Dioxane	ND		5.0	0.082	ppb v/v			03/18/25 14:19	1
Bromodichloromethane	ND		0.20	0.050	ppb v/v			03/18/25 14:19	1
cis-1,3-Dichloropropene	ND		0.20	0.045	ppb v/v			03/18/25 14:19	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		0.50	0.13	ppb v/v			03/18/25 14:19	1
Toluene	**1.0**		0.20	0.062	ppb v/v			03/18/25 14:19	1
trans-1,3-Dichloropropene	ND		0.20	0.054	ppb v/v			03/18/25 14:19	1
1,1,2-Trichloroethane	ND		0.20	0.074	ppb v/v			03/18/25 14:19	1
Tetrachloroethene	ND		0.20	0.021	ppb v/v			03/18/25 14:19	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.15	ppb v/v			03/18/25 14:19	1
Dibromochloromethane	ND		0.20	0.063	ppb v/v			03/18/25 14:19	1
1,2-Dibromoethane	ND		0.20	0.042	ppb v/v			03/18/25 14:19	1
Chlorobenzene	ND		0.20	0.044	ppb v/v			03/18/25 14:19	1
Ethylbenzene	**2.4**		0.20	0.069	ppb v/v			03/18/25 14:19	1
m,p-Xylene	**2.6**		0.50	0.095	ppb v/v			03/18/25 14:19	1
o-Xylene	**1.0**		0.20	0.063	ppb v/v			03/18/25 14:19	1
Styrene	ND		0.20	0.059	ppb v/v			03/18/25 14:19	1
Bromoform	ND		0.20	0.12	ppb v/v			03/18/25 14:19	1
Cumene	**0.61**		0.20	0.041	ppb v/v			03/18/25 14:19	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.043	ppb v/v			03/18/25 14:19	1
n-Propylbenzene	**0.31**		0.20	0.047	ppb v/v			03/18/25 14:19	1
4-Ethyltoluene	**0.35**		0.20	0.049	ppb v/v			03/18/25 14:19	1
1,3,5-Trimethylbenzene	**0.42**		0.20	0.047	ppb v/v			03/18/25 14:19	1
2-Chlorotoluene	ND		0.20	0.046	ppb v/v			03/18/25 14:19	1
tert-Butylbenzene	ND		0.20	0.047	ppb v/v			03/18/25 14:19	1
1,2,4-Trimethylbenzene	**1.4**		0.20	0.080	ppb v/v			03/18/25 14:19	1
sec-Butylbenzene	ND		0.20	0.045	ppb v/v			03/18/25 14:19	1
4-Isopropyltoluene	**0.23**		0.20	0.061	ppb v/v			03/18/25 14:19	1
1,3-Dichlorobenzene	ND		0.20	0.074	ppb v/v			03/18/25 14:19	1
1,4-Dichlorobenzene	ND		0.20	0.089	ppb v/v			03/18/25 14:19	1
Benzyl chloride	ND		0.20	0.088	ppb v/v			03/18/25 14:19	1
n-Butylbenzene	ND		0.20	0.11	ppb v/v			03/18/25 14:19	1
1,2-Dichlorobenzene	ND		0.20	0.066	ppb v/v			03/18/25 14:19	1
1,2,4-Trichlorobenzene	ND		0.50	0.33	ppb v/v			03/18/25 14:19	1
Hexachlorobutadiene	ND		0.20	0.11	ppb v/v			03/18/25 14:19	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Client Sample ID: OA-1
Lab Sample ID: 480-227790-2
Date Collected: 02/26/25 13:00
Matrix: Air
Date Received: 03/08/25 11:00
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1.3		0.38	0.30	ppb v/v			03/18/25 14:19	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-214306/5
Matrix: Air
Analysis Batch: 214306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.5	0.54	ug/m3			03/17/25 10:52	1
Chlorodifluoromethane	ND		1.8	0.42	ug/m3			03/17/25 10:52	1
1,2-Dichlorotetrafluoroethane	ND		1.4	0.34	ug/m3			03/17/25 10:52	1
Chloromethane	ND		1.0	0.31	ug/m3			03/17/25 10:52	1
n-Butane	ND		1.2	0.48	ug/m3			03/17/25 10:52	1
Vinyl chloride	ND		0.20	0.054	ug/m3			03/17/25 10:52	1
1,3-Butadiene	ND		0.44	0.086	ug/m3			03/17/25 10:52	1
Bromomethane	ND		0.78	0.28	ug/m3			03/17/25 10:52	1
Chloroethane	ND		1.3	0.47	ug/m3			03/17/25 10:52	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.22	ug/m3			03/17/25 10:52	1
Trichlorofluoromethane	ND		1.1	0.28	ug/m3			03/17/25 10:52	1
1,1,2-Trichlorotrifluoroethane	ND		1.5	0.41	ug/m3			03/17/25 10:52	1
1,1-Dichloroethene	ND		0.20	0.10	ug/m3			03/17/25 10:52	1
Acetone	ND		12	3.8	ug/m3			03/17/25 10:52	1
Isopropyl alcohol	ND		12	3.9	ug/m3			03/17/25 10:52	1
Carbon disulfide	ND		1.6	0.40	ug/m3			03/17/25 10:52	1
3-Chloropropene	ND		1.6	0.38	ug/m3			03/17/25 10:52	1
Methylene Chloride	ND		1.7	0.63	ug/m3			03/17/25 10:52	1
tert-Butyl alcohol	ND		15	3.6	ug/m3			03/17/25 10:52	1
Methyl tert-butyl ether	ND		0.72	0.13	ug/m3			03/17/25 10:52	1
trans-1,2-Dichloroethene	ND		0.79	0.091	ug/m3			03/17/25 10:52	1
n-Hexane	ND		1.8	0.39	ug/m3			03/17/25 10:52	1
1,1-Dichloroethane	ND		0.81	0.10	ug/m3			03/17/25 10:52	1
Methyl Ethyl Ketone (2-Butanone)	ND		1.5	1.4	ug/m3			03/17/25 10:52	1
cis-1,2-Dichloroethene	ND		0.20	0.083	ug/m3			03/17/25 10:52	1
Chloroform	ND		0.98	0.20	ug/m3			03/17/25 10:52	1
Tetrahydrofuran	ND		15	3.8	ug/m3			03/17/25 10:52	1
1,1,1-Trichloroethane	ND		1.1	0.24	ug/m3			03/17/25 10:52	1
Cyclohexane	ND		0.69	0.20	ug/m3			03/17/25 10:52	1
Carbon tetrachloride	ND		0.22	0.14	ug/m3			03/17/25 10:52	1
2,2,4-Trimethylpentane	ND		0.93	0.18	ug/m3			03/17/25 10:52	1
Benzene	ND		0.64	0.14	ug/m3			03/17/25 10:52	1
1,2-Dichloroethane	ND		0.81	0.38	ug/m3			03/17/25 10:52	1
n-Heptane	ND		0.82	0.23	ug/m3			03/17/25 10:52	1
Trichloroethene	ND		0.20	0.13	ug/m3			03/17/25 10:52	1
Methyl methacrylate	ND		2.0	0.57	ug/m3			03/17/25 10:52	1
1,2-Dichloropropane	ND		0.92	0.43	ug/m3			03/17/25 10:52	1
1,4-Dioxane	ND		18	0.30	ug/m3			03/17/25 10:52	1
Bromodichloromethane	ND		1.3	0.34	ug/m3			03/17/25 10:52	1
cis-1,3-Dichloropropene	ND		0.91	0.20	ug/m3			03/17/25 10:52	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		2.0	0.53	ug/m3			03/17/25 10:52	1
Toluene	ND		0.75	0.23	ug/m3			03/17/25 10:52	1
trans-1,3-Dichloropropene	ND		0.91	0.25	ug/m3			03/17/25 10:52	1
1,1,2-Trichloroethane	ND		1.1	0.40	ug/m3			03/17/25 10:52	1
Tetrachloroethene	ND		1.4	0.14	ug/m3			03/17/25 10:52	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	0.61	ug/m3			03/17/25 10:52	1
Dibromochloromethane	ND		1.7	0.54	ug/m3			03/17/25 10:52	1
1,2-Dibromoethane	ND		1.5	0.32	ug/m3			03/17/25 10:52	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-214306/5
Matrix: Air
Analysis Batch: 214306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.92	0.20	ug/m3			03/17/25 10:52	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/17/25 10:52	1
m,p-Xylene	ND		2.2	0.41	ug/m3			03/17/25 10:52	1
o-Xylene	ND		0.87	0.27	ug/m3			03/17/25 10:52	1
Styrene	ND		0.85	0.25	ug/m3			03/17/25 10:52	1
Bromoform	ND		2.1	1.2	ug/m3			03/17/25 10:52	1
Cumene	ND		0.98	0.20	ug/m3			03/17/25 10:52	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.30	ug/m3			03/17/25 10:52	1
n-Propylbenzene	ND		0.98	0.23	ug/m3			03/17/25 10:52	1
4-Ethyltoluene	ND		0.98	0.24	ug/m3			03/17/25 10:52	1
1,3,5-Trimethylbenzene	ND		0.98	0.23	ug/m3			03/17/25 10:52	1
2-Chlorotoluene	ND		1.0	0.24	ug/m3			03/17/25 10:52	1
tert-Butylbenzene	ND		1.1	0.26	ug/m3			03/17/25 10:52	1
1,2,4-Trimethylbenzene	ND		0.98	0.39	ug/m3			03/17/25 10:52	1
sec-Butylbenzene	ND		1.1	0.25	ug/m3			03/17/25 10:52	1
4-Isopropyltoluene	ND		1.1	0.33	ug/m3			03/17/25 10:52	1
1,3-Dichlorobenzene	ND		1.2	0.44	ug/m3			03/17/25 10:52	1
1,4-Dichlorobenzene	ND		1.2	0.54	ug/m3			03/17/25 10:52	1
Benzyl chloride	ND		1.0	0.46	ug/m3			03/17/25 10:52	1
n-Butylbenzene	ND		1.1	0.60	ug/m3			03/17/25 10:52	1
1,2-Dichlorobenzene	ND		1.2	0.40	ug/m3			03/17/25 10:52	1
1,2,4-Trichlorobenzene	ND		3.7	2.4	ug/m3			03/17/25 10:52	1
Hexachlorobutadiene	ND		2.1	1.2	ug/m3			03/17/25 10:52	1
Naphthalene	ND		2.0	1.6	ug/m3			03/17/25 10:52	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.11	ppb v/v			03/17/25 10:52	1
Chlorodifluoromethane	ND		0.50	0.12	ppb v/v			03/17/25 10:52	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.048	ppb v/v			03/17/25 10:52	1
Chloromethane	ND		0.50	0.15	ppb v/v			03/17/25 10:52	1
n-Butane	ND		0.50	0.20	ppb v/v			03/17/25 10:52	1
Vinyl chloride	ND		0.078	0.021	ppb v/v			03/17/25 10:52	1
1,3-Butadiene	ND		0.20	0.039	ppb v/v			03/17/25 10:52	1
Bromomethane	ND		0.20	0.071	ppb v/v			03/17/25 10:52	1
Chloroethane	ND		0.50	0.18	ppb v/v			03/17/25 10:52	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.050	ppb v/v			03/17/25 10:52	1
Trichlorofluoromethane	ND		0.20	0.050	ppb v/v			03/17/25 10:52	1
1,1,2-Trichlorotrifluoroethane	ND		0.20	0.053	ppb v/v			03/17/25 10:52	1
1,1-Dichloroethene	ND		0.050	0.026	ppb v/v			03/17/25 10:52	1
Acetone	ND		5.0	1.6	ppb v/v			03/17/25 10:52	1
Isopropyl alcohol	ND		5.0	1.6	ppb v/v			03/17/25 10:52	1
Carbon disulfide	ND		0.50	0.13	ppb v/v			03/17/25 10:52	1
3-Chloropropene	ND		0.50	0.12	ppb v/v			03/17/25 10:52	1
Methylene Chloride	ND		0.50	0.18	ppb v/v			03/17/25 10:52	1
tert-Butyl alcohol	ND		5.0	1.2	ppb v/v			03/17/25 10:52	1
Methyl tert-butyl ether	ND		0.20	0.036	ppb v/v			03/17/25 10:52	1
trans-1,2-Dichloroethene	ND		0.20	0.023	ppb v/v			03/17/25 10:52	1
n-Hexane	ND		0.50	0.11	ppb v/v			03/17/25 10:52	1
1,1-Dichloroethane	ND		0.20	0.025	ppb v/v			03/17/25 10:52	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-214306/5
Matrix: Air
Analysis Batch: 214306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	ND		0.50	0.49	ppb v/v			03/17/25 10:52	1
cis-1,2-Dichloroethene	ND		0.050	0.021	ppb v/v			03/17/25 10:52	1
Chloroform	ND		0.20	0.041	ppb v/v			03/17/25 10:52	1
Tetrahydrofuran	ND		5.0	1.3	ppb v/v			03/17/25 10:52	1
1,1,1-Trichloroethane	ND		0.20	0.044	ppb v/v			03/17/25 10:52	1
Cyclohexane	ND		0.20	0.058	ppb v/v			03/17/25 10:52	1
Carbon tetrachloride	ND		0.035	0.022	ppb v/v			03/17/25 10:52	1
2,2,4-Trimethylpentane	ND		0.20	0.038	ppb v/v			03/17/25 10:52	1
Benzene	ND		0.20	0.044	ppb v/v			03/17/25 10:52	1
1,2-Dichloroethane	ND		0.20	0.093	ppb v/v			03/17/25 10:52	1
n-Heptane	ND		0.20	0.055	ppb v/v			03/17/25 10:52	1
Trichloroethene	ND		0.037	0.025	ppb v/v			03/17/25 10:52	1
Methyl methacrylate	ND		0.50	0.14	ppb v/v			03/17/25 10:52	1
1,2-Dichloropropane	ND		0.20	0.094	ppb v/v			03/17/25 10:52	1
1,4-Dioxane	ND		5.0	0.082	ppb v/v			03/17/25 10:52	1
Bromodichloromethane	ND		0.20	0.050	ppb v/v			03/17/25 10:52	1
cis-1,3-Dichloropropene	ND		0.20	0.045	ppb v/v			03/17/25 10:52	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		0.50	0.13	ppb v/v			03/17/25 10:52	1
Toluene	ND		0.20	0.062	ppb v/v			03/17/25 10:52	1
trans-1,3-Dichloropropene	ND		0.20	0.054	ppb v/v			03/17/25 10:52	1
1,1,2-Trichloroethane	ND		0.20	0.074	ppb v/v			03/17/25 10:52	1
Tetrachloroethene	ND		0.20	0.021	ppb v/v			03/17/25 10:52	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.15	ppb v/v			03/17/25 10:52	1
Dibromochloromethane	ND		0.20	0.063	ppb v/v			03/17/25 10:52	1
1,2-Dibromoethane	ND		0.20	0.042	ppb v/v			03/17/25 10:52	1
Chlorobenzene	ND		0.20	0.044	ppb v/v			03/17/25 10:52	1
Ethylbenzene	ND		0.20	0.069	ppb v/v			03/17/25 10:52	1
m,p-Xylene	ND		0.50	0.095	ppb v/v			03/17/25 10:52	1
o-Xylene	ND		0.20	0.063	ppb v/v			03/17/25 10:52	1
Styrene	ND		0.20	0.059	ppb v/v			03/17/25 10:52	1
Bromoform	ND		0.20	0.12	ppb v/v			03/17/25 10:52	1
Cumene	ND		0.20	0.041	ppb v/v			03/17/25 10:52	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.043	ppb v/v			03/17/25 10:52	1
n-Propylbenzene	ND		0.20	0.047	ppb v/v			03/17/25 10:52	1
4-Ethyltoluene	ND		0.20	0.049	ppb v/v			03/17/25 10:52	1
1,3,5-Trimethylbenzene	ND		0.20	0.047	ppb v/v			03/17/25 10:52	1
2-Chlorotoluene	ND		0.20	0.046	ppb v/v			03/17/25 10:52	1
tert-Butylbenzene	ND		0.20	0.047	ppb v/v			03/17/25 10:52	1
1,2,4-Trimethylbenzene	ND		0.20	0.080	ppb v/v			03/17/25 10:52	1
sec-Butylbenzene	ND		0.20	0.045	ppb v/v			03/17/25 10:52	1
4-Isopropyltoluene	ND		0.20	0.061	ppb v/v			03/17/25 10:52	1
1,3-Dichlorobenzene	ND		0.20	0.074	ppb v/v			03/17/25 10:52	1
1,4-Dichlorobenzene	ND		0.20	0.089	ppb v/v			03/17/25 10:52	1
Benzyl chloride	ND		0.20	0.088	ppb v/v			03/17/25 10:52	1
n-Butylbenzene	ND		0.20	0.11	ppb v/v			03/17/25 10:52	1
1,2-Dichlorobenzene	ND		0.20	0.066	ppb v/v			03/17/25 10:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.33	ppb v/v			03/17/25 10:52	1
Hexachlorobutadiene	ND		0.20	0.11	ppb v/v			03/17/25 10:52	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-214306/5
Matrix: Air
Analysis Batch: 214306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.38	0.30	ppb v/v			03/17/25 10:52	1

Lab Sample ID: LCS 200-214306/4
Matrix: Air
Analysis Batch: 214306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49.4	51.8		ug/m3		105	61 - 142
Chlorodifluoromethane	35.4	42.2		ug/m3		119	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	74.0		ug/m3		106	71 - 141
Chloromethane	20.6	25.4		ug/m3		123	56 - 141
n-Butane	23.8	25.0		ug/m3		105	53 - 151
Vinyl chloride	25.6	24.2		ug/m3		95	61 - 135
1,3-Butadiene	22.1	19.9		ug/m3		90	58 - 139
Bromomethane	38.8	39.2		ug/m3		101	72 - 124
Chloroethane	26.4	29.7		ug/m3		113	68 - 130
Bromoethene(Vinyl Bromide)	43.7	44.4		ug/m3		102	75 - 125
Trichlorofluoromethane	56.2	56.7		ug/m3		101	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	73.9		ug/m3		97	70 - 121
1,1-Dichloroethene	39.6	39.6		ug/m3		100	68 - 120
Acetone	23.7	27.5		ug/m3		116	54 - 154
Isopropyl alcohol	24.6	33.5		ug/m3		136	53 - 142
Carbon disulfide	31.1	32.0		ug/m3		103	71 - 138
3-Chloropropene	31.3	32.6		ug/m3		104	50 - 150
Methylene Chloride	34.7	39.7		ug/m3		114	59 - 137
tert-Butyl alcohol	30.3	34.0		ug/m3		112	66 - 132
Methyl tert-butyl ether	36.0	39.0		ug/m3		108	70 - 127
trans-1,2-Dichloroethene	39.6	44.3		ug/m3		112	69 - 137
n-Hexane	35.2	40.3		ug/m3		114	63 - 138
1,1-Dichloroethane	40.5	43.3		ug/m3		107	66 - 130
Methyl Ethyl Ketone (2-Butanone)	29.5	29.9		ug/m3		101	72 - 124
cis-1,2-Dichloroethene	39.6	39.0		ug/m3		98	72 - 121
Chloroform	48.8	49.3		ug/m3		101	73 - 124
Tetrahydrofuran	29.5	33.7		ug/m3		114	60 - 149
1,1,1-Trichloroethane	54.6	53.9		ug/m3		99	72 - 127
Cyclohexane	34.4	35.3		ug/m3		103	76 - 124
Carbon tetrachloride	62.9	61.2		ug/m3		97	71 - 133
2,2,4-Trimethylpentane	46.7	53.8		ug/m3		115	68 - 131
Benzene	31.9	33.0		ug/m3		103	73 - 119
1,2-Dichloroethane	40.5	41.4		ug/m3		102	68 - 135
n-Heptane	41.0	50.8		ug/m3		124	60 - 142
Trichloroethene	53.7	52.7		ug/m3		98	73 - 122
Methyl methacrylate	40.9	42.5		ug/m3		104	73 - 129
1,2-Dichloropropane	46.2	50.4		ug/m3		109	69 - 128
1,4-Dioxane	36.0	34.6		ug/m3		96	66 - 129
Bromodichloromethane	67.0	67.2		ug/m3		100	75 - 127
cis-1,3-Dichloropropene	45.4	48.7		ug/m3		107	74 - 125

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-214306/4
Matrix: Air
Analysis Batch: 214306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41.0	49.1		ug/m3		120	58 - 144
Toluene	37.7	36.2		ug/m3		96	75 - 122
trans-1,3-Dichloropropene	45.4	52.4		ug/m3		116	74 - 128
1,1,2-Trichloroethane	54.6	52.4		ug/m3		96	75 - 126
Tetrachloroethene	67.8	59.6		ug/m3		88	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	45.3		ug/m3		111	57 - 143
Dibromochloromethane	85.2	69.9		ug/m3		82	73 - 125
1,2-Dibromoethane	76.8	69.8		ug/m3		91	78 - 122
Chlorobenzene	46.0	41.3		ug/m3		90	76 - 119
Ethylbenzene	43.4	41.8		ug/m3		96	74 - 122
m,p-Xylene	86.8	81.8		ug/m3		94	76 - 121
o-Xylene	43.4	42.1		ug/m3		97	73 - 123
Styrene	42.6	40.1		ug/m3		94	74 - 125
Bromoform	103	67.3		ug/m3		65	53 - 149
Cumene	49.1	47.8		ug/m3		97	73 - 123
1,1,2,2-Tetrachloroethane	68.6	65.4		ug/m3		95	74 - 126
n-Propylbenzene	49.1	48.3		ug/m3		98	73 - 127
4-Ethyltoluene	49.2	47.7		ug/m3		97	75 - 129
1,3,5-Trimethylbenzene	49.2	47.0		ug/m3		96	72 - 126
2-Chlorotoluene	51.8	48.4		ug/m3		93	74 - 126
tert-Butylbenzene	54.9	52.1		ug/m3		95	71 - 125
1,2,4-Trimethylbenzene	49.2	47.3		ug/m3		96	71 - 129
sec-Butylbenzene	54.9	53.0		ug/m3		97	70 - 128
4-Isopropyltoluene	54.9	51.4		ug/m3		94	68 - 130
1,3-Dichlorobenzene	60.1	51.3		ug/m3		85	69 - 131
1,4-Dichlorobenzene	60.1	50.8		ug/m3		85	67 - 132
Benzyl chloride	51.8	49.4		ug/m3		95	60 - 136
n-Butylbenzene	54.9	53.1		ug/m3		97	65 - 137
1,2-Dichlorobenzene	60.1	51.2		ug/m3		85	68 - 129
1,2,4-Trichlorobenzene	74.2	56.0		ug/m3		75	50 - 150
Hexachlorobutadiene	107	90.1		ug/m3		84	58 - 130
Naphthalene	52.4	38.0		ug/m3		73	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	10.5		ppb v/v		105	61 - 142
Chlorodifluoromethane	10	11.9		ppb v/v		119	60 - 147
1,2-Dichlorotetrafluoroethane	10	10.6		ppb v/v		106	71 - 141
Chloromethane	10	12.3		ppb v/v		123	56 - 141
n-Butane	10	10.5		ppb v/v		105	53 - 151
Vinyl chloride	10	9.48		ppb v/v		95	61 - 135
1,3-Butadiene	10	9.01		ppb v/v		90	58 - 139
Bromomethane	10	10.1		ppb v/v		101	72 - 124
Chloroethane	10	11.3		ppb v/v		113	68 - 130
Bromoethene(Vinyl Bromide)	10	10.2		ppb v/v		102	75 - 125
Trichlorofluoromethane	10	10.1		ppb v/v		101	70 - 129
1,1,2-Trichlorotrifluoroethane	10	9.65		ppb v/v		97	70 - 121
1,1-Dichloroethene	10	9.98		ppb v/v		100	68 - 120

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-214306/4
Matrix: Air
Analysis Batch: 214306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10	11.6		ppb v/v		116	54 - 154
Isopropyl alcohol	10	13.6		ppb v/v		136	53 - 142
Carbon disulfide	10	10.3		ppb v/v		103	71 - 138
3-Chloropropene	10	10.4		ppb v/v		104	50 - 150
Methylene Chloride	10	11.4		ppb v/v		114	59 - 137
tert-Butyl alcohol	10	11.2		ppb v/v		112	66 - 132
Methyl tert-butyl ether	10	10.8		ppb v/v		108	70 - 127
trans-1,2-Dichloroethene	10	11.2		ppb v/v		112	69 - 137
n-Hexane	10	11.4		ppb v/v		114	63 - 138
1,1-Dichloroethane	10	10.7		ppb v/v		107	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	10.1		ppb v/v		101	72 - 124
cis-1,2-Dichloroethene	10	9.84		ppb v/v		98	72 - 121
Chloroform	10	10.1		ppb v/v		101	73 - 124
Tetrahydrofuran	10	11.4		ppb v/v		114	60 - 149
1,1,1-Trichloroethane	10	9.88		ppb v/v		99	72 - 127
Cyclohexane	10	10.3		ppb v/v		103	76 - 124
Carbon tetrachloride	10	9.73		ppb v/v		97	71 - 133
2,2,4-Trimethylpentane	10	11.5		ppb v/v		115	68 - 131
Benzene	10	10.3		ppb v/v		103	73 - 119
1,2-Dichloroethane	10	10.2		ppb v/v		102	68 - 135
n-Heptane	10	12.4		ppb v/v		124	60 - 142
Trichloroethene	10	9.80		ppb v/v		98	73 - 122
Methyl methacrylate	10	10.4		ppb v/v		104	73 - 129
1,2-Dichloropropane	10	10.9		ppb v/v		109	69 - 128
1,4-Dioxane	10	9.59		ppb v/v		96	66 - 129
Bromodichloromethane	10	10.0		ppb v/v		100	75 - 127
cis-1,3-Dichloropropene	10	10.7		ppb v/v		107	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	12.0		ppb v/v		120	58 - 144
Toluene	10	9.59		ppb v/v		96	75 - 122
trans-1,3-Dichloropropene	10	11.6		ppb v/v		116	74 - 128
1,1,2-Trichloroethane	10	9.61		ppb v/v		96	75 - 126
Tetrachloroethene	10	8.78		ppb v/v		88	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	11.1		ppb v/v		111	57 - 143
Dibromochloromethane	10	8.20		ppb v/v		82	73 - 125
1,2-Dibromoethane	10	9.08		ppb v/v		91	78 - 122
Chlorobenzene	10	8.98		ppb v/v		90	76 - 119
Ethylbenzene	10	9.62		ppb v/v		96	74 - 122
m,p-Xylene	20	18.8		ppb v/v		94	76 - 121
o-Xylene	10	9.68		ppb v/v		97	73 - 123
Styrene	10	9.40		ppb v/v		94	74 - 125
Bromoform	10	6.51		ppb v/v		65	53 - 149
Cumene	10	9.73		ppb v/v		97	73 - 123
1,1,2,2-Tetrachloroethane	10	9.52		ppb v/v		95	74 - 126
n-Propylbenzene	10	9.82		ppb v/v		98	73 - 127
4-Ethyltoluene	10	9.71		ppb v/v		97	75 - 129
1,3,5-Trimethylbenzene	10	9.55		ppb v/v		96	72 - 126

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-214306/4
Matrix: Air
Analysis Batch: 214306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	10	9.35		ppb v/v		93	74 - 126
tert-Butylbenzene	10	9.48		ppb v/v		95	71 - 125
1,2,4-Trimethylbenzene	10	9.62		ppb v/v		96	71 - 129
sec-Butylbenzene	10	9.65		ppb v/v		97	70 - 128
4-Isopropyltoluene	10	9.36		ppb v/v		94	68 - 130
1,3-Dichlorobenzene	10	8.53		ppb v/v		85	69 - 131
1,4-Dichlorobenzene	10	8.46		ppb v/v		85	67 - 132
Benzyl chloride	10	9.55		ppb v/v		95	60 - 136
n-Butylbenzene	10	9.66		ppb v/v		97	65 - 137
1,2-Dichlorobenzene	10	8.51		ppb v/v		85	68 - 129
1,2,4-Trichlorobenzene	10	7.55		ppb v/v		75	50 - 150
Hexachlorobutadiene	10	8.45		ppb v/v		84	58 - 130
Naphthalene	10	7.25		ppb v/v		73	50 - 150

Lab Sample ID: MB 200-214344/4
Matrix: Air
Analysis Batch: 214344

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.5	0.54	ug/m3			03/18/25 09:54	1
Chlorodifluoromethane	ND		1.8	0.42	ug/m3			03/18/25 09:54	1
1,2-Dichlorotetrafluoroethane	ND		1.4	0.34	ug/m3			03/18/25 09:54	1
Chloromethane	ND		1.0	0.31	ug/m3			03/18/25 09:54	1
n-Butane	ND		1.2	0.48	ug/m3			03/18/25 09:54	1
Vinyl chloride	ND		0.20	0.054	ug/m3			03/18/25 09:54	1
1,3-Butadiene	ND		0.44	0.086	ug/m3			03/18/25 09:54	1
Bromomethane	ND		0.78	0.28	ug/m3			03/18/25 09:54	1
Chloroethane	ND		1.3	0.47	ug/m3			03/18/25 09:54	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.22	ug/m3			03/18/25 09:54	1
Trichlorofluoromethane	ND		1.1	0.28	ug/m3			03/18/25 09:54	1
1,1,2-Trichlorotrifluoroethane	ND		1.5	0.41	ug/m3			03/18/25 09:54	1
1,1-Dichloroethene	ND		0.20	0.10	ug/m3			03/18/25 09:54	1
Acetone	ND		12	3.8	ug/m3			03/18/25 09:54	1
Isopropyl alcohol	ND		12	3.9	ug/m3			03/18/25 09:54	1
Carbon disulfide	ND		1.6	0.40	ug/m3			03/18/25 09:54	1
3-Chloropropene	ND		1.6	0.38	ug/m3			03/18/25 09:54	1
Methylene Chloride	ND		1.7	0.63	ug/m3			03/18/25 09:54	1
tert-Butyl alcohol	ND		15	3.6	ug/m3			03/18/25 09:54	1
Methyl tert-butyl ether	ND		0.72	0.13	ug/m3			03/18/25 09:54	1
trans-1,2-Dichloroethene	ND		0.79	0.091	ug/m3			03/18/25 09:54	1
n-Hexane	ND		1.8	0.39	ug/m3			03/18/25 09:54	1
1,1-Dichloroethane	ND		0.81	0.10	ug/m3			03/18/25 09:54	1
Methyl Ethyl Ketone (2-Butanone)	ND		1.5	1.4	ug/m3			03/18/25 09:54	1
cis-1,2-Dichloroethene	ND		0.20	0.083	ug/m3			03/18/25 09:54	1
Chloroform	ND		0.98	0.20	ug/m3			03/18/25 09:54	1
Tetrahydrofuran	ND		15	3.8	ug/m3			03/18/25 09:54	1
1,1,1-Trichloroethane	ND		1.1	0.24	ug/m3			03/18/25 09:54	1
Cyclohexane	ND		0.69	0.20	ug/m3			03/18/25 09:54	1
Carbon tetrachloride	ND		0.22	0.14	ug/m3			03/18/25 09:54	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-214344/4
Matrix: Air
Analysis Batch: 214344

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	ND		0.93	0.18	ug/m3			03/18/25 09:54	1
Benzene	ND		0.64	0.14	ug/m3			03/18/25 09:54	1
1,2-Dichloroethane	ND		0.81	0.38	ug/m3			03/18/25 09:54	1
n-Heptane	ND		0.82	0.23	ug/m3			03/18/25 09:54	1
Trichloroethene	ND		0.20	0.13	ug/m3			03/18/25 09:54	1
Methyl methacrylate	ND		2.0	0.57	ug/m3			03/18/25 09:54	1
1,2-Dichloropropane	ND		0.92	0.43	ug/m3			03/18/25 09:54	1
1,4-Dioxane	ND		18	0.30	ug/m3			03/18/25 09:54	1
Bromodichloromethane	ND		1.3	0.34	ug/m3			03/18/25 09:54	1
cis-1,3-Dichloropropene	ND		0.91	0.20	ug/m3			03/18/25 09:54	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		2.0	0.53	ug/m3			03/18/25 09:54	1
Toluene	ND		0.75	0.23	ug/m3			03/18/25 09:54	1
trans-1,3-Dichloropropene	ND		0.91	0.25	ug/m3			03/18/25 09:54	1
1,1,2-Trichloroethane	ND		1.1	0.40	ug/m3			03/18/25 09:54	1
Tetrachloroethene	ND		1.4	0.14	ug/m3			03/18/25 09:54	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	0.61	ug/m3			03/18/25 09:54	1
Dibromochloromethane	ND		1.7	0.54	ug/m3			03/18/25 09:54	1
1,2-Dibromoethane	ND		1.5	0.32	ug/m3			03/18/25 09:54	1
Chlorobenzene	ND		0.92	0.20	ug/m3			03/18/25 09:54	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/25 09:54	1
m,p-Xylene	ND		2.2	0.41	ug/m3			03/18/25 09:54	1
o-Xylene	ND		0.87	0.27	ug/m3			03/18/25 09:54	1
Styrene	ND		0.85	0.25	ug/m3			03/18/25 09:54	1
Bromoform	ND		2.1	1.2	ug/m3			03/18/25 09:54	1
Cumene	ND		0.98	0.20	ug/m3			03/18/25 09:54	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.30	ug/m3			03/18/25 09:54	1
n-Propylbenzene	ND		0.98	0.23	ug/m3			03/18/25 09:54	1
4-Ethyltoluene	ND		0.98	0.24	ug/m3			03/18/25 09:54	1
1,3,5-Trimethylbenzene	ND		0.98	0.23	ug/m3			03/18/25 09:54	1
2-Chlorotoluene	ND		1.0	0.24	ug/m3			03/18/25 09:54	1
tert-Butylbenzene	ND		1.1	0.26	ug/m3			03/18/25 09:54	1
1,2,4-Trimethylbenzene	ND		0.98	0.39	ug/m3			03/18/25 09:54	1
sec-Butylbenzene	ND		1.1	0.25	ug/m3			03/18/25 09:54	1
4-Isopropyltoluene	ND		1.1	0.33	ug/m3			03/18/25 09:54	1
1,3-Dichlorobenzene	ND		1.2	0.44	ug/m3			03/18/25 09:54	1
1,4-Dichlorobenzene	ND		1.2	0.54	ug/m3			03/18/25 09:54	1
Benzyl chloride	ND		1.0	0.46	ug/m3			03/18/25 09:54	1
n-Butylbenzene	ND		1.1	0.60	ug/m3			03/18/25 09:54	1
1,2-Dichlorobenzene	ND		1.2	0.40	ug/m3			03/18/25 09:54	1
1,2,4-Trichlorobenzene	ND		3.7	2.4	ug/m3			03/18/25 09:54	1
Hexachlorobutadiene	ND		2.1	1.2	ug/m3			03/18/25 09:54	1
Naphthalene	ND		2.0	1.6	ug/m3			03/18/25 09:54	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.11	ppb v/v			03/18/25 09:54	1
Chlorodifluoromethane	ND		0.50	0.12	ppb v/v			03/18/25 09:54	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.048	ppb v/v			03/18/25 09:54	1
Chloromethane	ND		0.50	0.15	ppb v/v			03/18/25 09:54	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-214344/4
Matrix: Air
Analysis Batch: 214344

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butane	ND		0.50	0.20	ppb v/v			03/18/25 09:54	1
Vinyl chloride	ND		0.078	0.021	ppb v/v			03/18/25 09:54	1
1,3-Butadiene	ND		0.20	0.039	ppb v/v			03/18/25 09:54	1
Bromomethane	ND		0.20	0.071	ppb v/v			03/18/25 09:54	1
Chloroethane	ND		0.50	0.18	ppb v/v			03/18/25 09:54	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.050	ppb v/v			03/18/25 09:54	1
Trichlorofluoromethane	ND		0.20	0.050	ppb v/v			03/18/25 09:54	1
1,1,2-Trichlorotrifluoroethane	ND		0.20	0.053	ppb v/v			03/18/25 09:54	1
1,1-Dichloroethene	ND		0.050	0.026	ppb v/v			03/18/25 09:54	1
Acetone	ND		5.0	1.6	ppb v/v			03/18/25 09:54	1
Isopropyl alcohol	ND		5.0	1.6	ppb v/v			03/18/25 09:54	1
Carbon disulfide	ND		0.50	0.13	ppb v/v			03/18/25 09:54	1
3-Chloropropene	ND		0.50	0.12	ppb v/v			03/18/25 09:54	1
Methylene Chloride	ND		0.50	0.18	ppb v/v			03/18/25 09:54	1
tert-Butyl alcohol	ND		5.0	1.2	ppb v/v			03/18/25 09:54	1
Methyl tert-butyl ether	ND		0.20	0.036	ppb v/v			03/18/25 09:54	1
trans-1,2-Dichloroethene	ND		0.20	0.023	ppb v/v			03/18/25 09:54	1
n-Hexane	ND		0.50	0.11	ppb v/v			03/18/25 09:54	1
1,1-Dichloroethane	ND		0.20	0.025	ppb v/v			03/18/25 09:54	1
Methyl Ethyl Ketone (2-Butanone)	ND		0.50	0.49	ppb v/v			03/18/25 09:54	1
cis-1,2-Dichloroethene	ND		0.050	0.021	ppb v/v			03/18/25 09:54	1
Chloroform	ND		0.20	0.041	ppb v/v			03/18/25 09:54	1
Tetrahydrofuran	ND		5.0	1.3	ppb v/v			03/18/25 09:54	1
1,1,1-Trichloroethane	ND		0.20	0.044	ppb v/v			03/18/25 09:54	1
Cyclohexane	ND		0.20	0.058	ppb v/v			03/18/25 09:54	1
Carbon tetrachloride	ND		0.035	0.022	ppb v/v			03/18/25 09:54	1
2,2,4-Trimethylpentane	ND		0.20	0.038	ppb v/v			03/18/25 09:54	1
Benzene	ND		0.20	0.044	ppb v/v			03/18/25 09:54	1
1,2-Dichloroethane	ND		0.20	0.093	ppb v/v			03/18/25 09:54	1
n-Heptane	ND		0.20	0.055	ppb v/v			03/18/25 09:54	1
Trichloroethene	ND		0.037	0.025	ppb v/v			03/18/25 09:54	1
Methyl methacrylate	ND		0.50	0.14	ppb v/v			03/18/25 09:54	1
1,2-Dichloropropane	ND		0.20	0.094	ppb v/v			03/18/25 09:54	1
1,4-Dioxane	ND		5.0	0.082	ppb v/v			03/18/25 09:54	1
Bromodichloromethane	ND		0.20	0.050	ppb v/v			03/18/25 09:54	1
cis-1,3-Dichloropropene	ND		0.20	0.045	ppb v/v			03/18/25 09:54	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		0.50	0.13	ppb v/v			03/18/25 09:54	1
Toluene	ND		0.20	0.062	ppb v/v			03/18/25 09:54	1
trans-1,3-Dichloropropene	ND		0.20	0.054	ppb v/v			03/18/25 09:54	1
1,1,2-Trichloroethane	ND		0.20	0.074	ppb v/v			03/18/25 09:54	1
Tetrachloroethene	ND		0.20	0.021	ppb v/v			03/18/25 09:54	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.15	ppb v/v			03/18/25 09:54	1
Dibromochloromethane	ND		0.20	0.063	ppb v/v			03/18/25 09:54	1
1,2-Dibromoethane	ND		0.20	0.042	ppb v/v			03/18/25 09:54	1
Chlorobenzene	ND		0.20	0.044	ppb v/v			03/18/25 09:54	1
Ethylbenzene	ND		0.20	0.069	ppb v/v			03/18/25 09:54	1
m,p-Xylene	ND		0.50	0.095	ppb v/v			03/18/25 09:54	1
o-Xylene	ND		0.20	0.063	ppb v/v			03/18/25 09:54	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-214344/4
Matrix: Air
Analysis Batch: 214344

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.20	0.059	ppb v/v			03/18/25 09:54	1
Bromoform	ND		0.20	0.12	ppb v/v			03/18/25 09:54	1
Cumene	ND		0.20	0.041	ppb v/v			03/18/25 09:54	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.043	ppb v/v			03/18/25 09:54	1
n-Propylbenzene	ND		0.20	0.047	ppb v/v			03/18/25 09:54	1
4-Ethyltoluene	ND		0.20	0.049	ppb v/v			03/18/25 09:54	1
1,3,5-Trimethylbenzene	ND		0.20	0.047	ppb v/v			03/18/25 09:54	1
2-Chlorotoluene	ND		0.20	0.046	ppb v/v			03/18/25 09:54	1
tert-Butylbenzene	ND		0.20	0.047	ppb v/v			03/18/25 09:54	1
1,2,4-Trimethylbenzene	ND		0.20	0.080	ppb v/v			03/18/25 09:54	1
sec-Butylbenzene	ND		0.20	0.045	ppb v/v			03/18/25 09:54	1
4-Isopropyltoluene	ND		0.20	0.061	ppb v/v			03/18/25 09:54	1
1,3-Dichlorobenzene	ND		0.20	0.074	ppb v/v			03/18/25 09:54	1
1,4-Dichlorobenzene	ND		0.20	0.089	ppb v/v			03/18/25 09:54	1
Benzyl chloride	ND		0.20	0.088	ppb v/v			03/18/25 09:54	1
n-Butylbenzene	ND		0.20	0.11	ppb v/v			03/18/25 09:54	1
1,2-Dichlorobenzene	ND		0.20	0.066	ppb v/v			03/18/25 09:54	1
1,2,4-Trichlorobenzene	ND		0.50	0.33	ppb v/v			03/18/25 09:54	1
Hexachlorobutadiene	ND		0.20	0.11	ppb v/v			03/18/25 09:54	1
Naphthalene	ND		0.38	0.30	ppb v/v			03/18/25 09:54	1

Lab Sample ID: LCS 200-214344/3
Matrix: Air
Analysis Batch: 214344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49.4	42.4		ug/m3		86	61 - 142
Chlorodifluoromethane	35.4	33.9		ug/m3		96	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	60.8		ug/m3		87	71 - 141
Chloromethane	20.6	18.2		ug/m3		88	56 - 141
n-Butane	23.8	21.8		ug/m3		92	53 - 151
Vinyl chloride	25.6	22.1		ug/m3		86	61 - 135
1,3-Butadiene	22.1	18.3		ug/m3		83	58 - 139
Bromomethane	38.8	33.2		ug/m3		85	72 - 124
Chloroethane	26.4	22.9		ug/m3		87	68 - 130
Bromoethene(Vinyl Bromide)	43.7	38.5		ug/m3		88	75 - 125
Trichlorofluoromethane	56.2	47.7		ug/m3		85	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	63.6		ug/m3		83	70 - 121
1,1-Dichloroethene	39.6	32.4		ug/m3		82	68 - 120
Acetone	23.7	22.0		ug/m3		92	54 - 154
Isopropyl alcohol	24.6	24.9		ug/m3		101	53 - 142
Carbon disulfide	31.1	26.5		ug/m3		85	71 - 138
3-Chloropropene	31.3	24.9		ug/m3		79	50 - 150
Methylene Chloride	34.7	30.4		ug/m3		88	59 - 137
tert-Butyl alcohol	30.3	27.4		ug/m3		91	66 - 132
Methyl tert-butyl ether	36.0	31.7		ug/m3		88	70 - 127
trans-1,2-Dichloroethene	39.6	35.7		ug/m3		90	69 - 137
n-Hexane	35.2	31.5		ug/m3		89	63 - 138
1,1-Dichloroethane	40.5	34.4		ug/m3		85	66 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-214344/3
Matrix: Air
Analysis Batch: 214344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Ethyl Ketone (2-Butanone)	29.5	25.9		ug/m3		88	72 - 124
cis-1,2-Dichloroethene	39.6	32.3		ug/m3		81	72 - 121
Chloroform	48.8	41.9		ug/m3		86	73 - 124
Tetrahydrofuran	29.5	27.1		ug/m3		92	60 - 149
1,1,1-Trichloroethane	54.6	46.7		ug/m3		86	72 - 127
Cyclohexane	34.4	30.3		ug/m3		88	76 - 124
Carbon tetrachloride	62.9	54.2		ug/m3		86	71 - 133
2,2,4-Trimethylpentane	46.7	42.5		ug/m3		91	68 - 131
Benzene	31.9	28.3		ug/m3		89	73 - 119
1,2-Dichloroethane	40.5	35.5		ug/m3		88	68 - 135
n-Heptane	41.0	37.9		ug/m3		92	60 - 142
Trichloroethene	53.7	47.6		ug/m3		89	73 - 122
Methyl methacrylate	40.9	37.0		ug/m3		90	73 - 129
1,2-Dichloropropane	46.2	42.5		ug/m3		92	69 - 128
1,4-Dioxane	36.0	31.5		ug/m3		87	66 - 129
Bromodichloromethane	67.0	58.7		ug/m3		88	75 - 127
cis-1,3-Dichloropropene	45.4	40.8		ug/m3		90	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41.0	39.0		ug/m3		95	58 - 144
Toluene	37.7	32.3		ug/m3		86	75 - 122
trans-1,3-Dichloropropene	45.4	43.9		ug/m3		97	74 - 128
1,1,2-Trichloroethane	54.6	47.6		ug/m3		87	75 - 126
Tetrachloroethene	67.8	55.0		ug/m3		81	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	38.3		ug/m3		94	57 - 143
Dibromochloromethane	85.2	66.0		ug/m3		78	73 - 125
1,2-Dibromoethane	76.8	65.8		ug/m3		86	78 - 122
Chlorobenzene	46.0	38.5		ug/m3		84	76 - 119
Ethylbenzene	43.4	36.9		ug/m3		85	74 - 122
m,p-Xylene	86.8	73.0		ug/m3		84	76 - 121
o-Xylene	43.4	37.3		ug/m3		86	73 - 123
Styrene	42.6	36.9		ug/m3		87	74 - 125
Bromoform	103	65.9		ug/m3		64	53 - 149
Cumene	49.1	41.7		ug/m3		85	73 - 123
1,1,2,2-Tetrachloroethane	68.6	59.0		ug/m3		86	74 - 126
n-Propylbenzene	49.1	42.4		ug/m3		86	73 - 127
4-Ethyltoluene	49.2	42.6		ug/m3		87	75 - 129
1,3,5-Trimethylbenzene	49.2	41.8		ug/m3		85	72 - 126
2-Chlorotoluene	51.8	44.0		ug/m3		85	74 - 126
tert-Butylbenzene	54.9	45.8		ug/m3		83	71 - 125
1,2,4-Trimethylbenzene	49.2	41.8		ug/m3		85	71 - 129
sec-Butylbenzene	54.9	47.4		ug/m3		86	70 - 128
4-Isopropyltoluene	54.9	46.1		ug/m3		84	68 - 130
1,3-Dichlorobenzene	60.1	49.9		ug/m3		83	69 - 131
1,4-Dichlorobenzene	60.1	50.5		ug/m3		84	67 - 132
Benzyl chloride	51.8	43.3		ug/m3		84	60 - 136
n-Butylbenzene	54.9	47.8		ug/m3		87	65 - 137
1,2-Dichlorobenzene	60.1	49.6		ug/m3		82	68 - 129

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-214344/3
Matrix: Air
Analysis Batch: 214344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	74.2	71.6		ug/m3		97	50 - 150
Hexachlorobutadiene	107	93.0		ug/m3		87	58 - 130
Naphthalene	52.4	51.5		ug/m3		98	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	8.58		ppb v/v		86	61 - 142
Chlorodifluoromethane	10	9.57		ppb v/v		96	60 - 147
1,2-Dichlorotetrafluoroethane	10	8.70		ppb v/v		87	71 - 141
Chloromethane	10	8.82		ppb v/v		88	56 - 141
n-Butane	10	9.15		ppb v/v		92	53 - 151
Vinyl chloride	10	8.63		ppb v/v		86	61 - 135
1,3-Butadiene	10	8.28		ppb v/v		83	58 - 139
Bromomethane	10	8.55		ppb v/v		85	72 - 124
Chloroethane	10	8.68		ppb v/v		87	68 - 130
Bromoethene(Vinyl Bromide)	10	8.79		ppb v/v		88	75 - 125
Trichlorofluoromethane	10	8.49		ppb v/v		85	70 - 129
1,1,2-Trichlorotrifluoroethane	10	8.29		ppb v/v		83	70 - 121
1,1-Dichloroethene	10	8.17		ppb v/v		82	68 - 120
Acetone	10	9.24		ppb v/v		92	54 - 154
Isopropyl alcohol	10	10.1		ppb v/v		101	53 - 142
Carbon disulfide	10	8.50		ppb v/v		85	71 - 138
3-Chloropropene	10	7.94		ppb v/v		79	50 - 150
Methylene Chloride	10	8.75		ppb v/v		88	59 - 137
tert-Butyl alcohol	10	9.05		ppb v/v		91	66 - 132
Methyl tert-butyl ether	10	8.79		ppb v/v		88	70 - 127
trans-1,2-Dichloroethene	10	8.99		ppb v/v		90	69 - 137
n-Hexane	10	8.94		ppb v/v		89	63 - 138
1,1-Dichloroethane	10	8.49		ppb v/v		85	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	8.79		ppb v/v		88	72 - 124
cis-1,2-Dichloroethene	10	8.14		ppb v/v		81	72 - 121
Chloroform	10	8.57		ppb v/v		86	73 - 124
Tetrahydrofuran	10	9.20		ppb v/v		92	60 - 149
1,1,1-Trichloroethane	10	8.56		ppb v/v		86	72 - 127
Cyclohexane	10	8.79		ppb v/v		88	76 - 124
Carbon tetrachloride	10	8.62		ppb v/v		86	71 - 133
2,2,4-Trimethylpentane	10	9.10		ppb v/v		91	68 - 131
Benzene	10	8.87		ppb v/v		89	73 - 119
1,2-Dichloroethane	10	8.77		ppb v/v		88	68 - 135
n-Heptane	10	9.25		ppb v/v		92	60 - 142
Trichloroethene	10	8.86		ppb v/v		89	73 - 122
Methyl methacrylate	10	9.03		ppb v/v		90	73 - 129
1,2-Dichloropropane	10	9.19		ppb v/v		92	69 - 128
1,4-Dioxane	10	8.74		ppb v/v		87	66 - 129
Bromodichloromethane	10	8.76		ppb v/v		88	75 - 127
cis-1,3-Dichloropropene	10	8.98		ppb v/v		90	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	9.51		ppb v/v		95	58 - 144
Toluene	10	8.58		ppb v/v		86	75 - 122

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-214344/3
Matrix: Air
Analysis Batch: 214344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	10	9.66		ppb v/v		97	74 - 128
1,1,2-Trichloroethane	10	8.72		ppb v/v		87	75 - 126
Tetrachloroethene	10	8.12		ppb v/v		81	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	9.35		ppb v/v		94	57 - 143
Dibromochloromethane	10	7.75		ppb v/v		78	73 - 125
1,2-Dibromoethane	10	8.56		ppb v/v		86	78 - 122
Chlorobenzene	10	8.36		ppb v/v		84	76 - 119
Ethylbenzene	10	8.49		ppb v/v		85	74 - 122
m,p-Xylene	20	16.8		ppb v/v		84	76 - 121
o-Xylene	10	8.59		ppb v/v		86	73 - 123
Styrene	10	8.67		ppb v/v		87	74 - 125
Bromoform	10	6.37		ppb v/v		64	53 - 149
Cumene	10	8.49		ppb v/v		85	73 - 123
1,1,2,2-Tetrachloroethane	10	8.59		ppb v/v		86	74 - 126
n-Propylbenzene	10	8.63		ppb v/v		86	73 - 127
4-Ethyltoluene	10	8.67		ppb v/v		87	75 - 129
1,3,5-Trimethylbenzene	10	8.50		ppb v/v		85	72 - 126
2-Chlorotoluene	10	8.50		ppb v/v		85	74 - 126
tert-Butylbenzene	10	8.34		ppb v/v		83	71 - 125
1,2,4-Trimethylbenzene	10	8.50		ppb v/v		85	71 - 129
sec-Butylbenzene	10	8.63		ppb v/v		86	70 - 128
4-Isopropyltoluene	10	8.39		ppb v/v		84	68 - 130
1,3-Dichlorobenzene	10	8.30		ppb v/v		83	69 - 131
1,4-Dichlorobenzene	10	8.40		ppb v/v		84	67 - 132
Benzyl chloride	10	8.37		ppb v/v		84	60 - 136
n-Butylbenzene	10	8.70		ppb v/v		87	65 - 137
1,2-Dichlorobenzene	10	8.24		ppb v/v		82	68 - 129
1,2,4-Trichlorobenzene	10	9.65		ppb v/v		97	50 - 150
Hexachlorobutadiene	10	8.72		ppb v/v		87	58 - 130
Naphthalene	10	9.83		ppb v/v		98	50 - 150

QC Association Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Air - GC/MS VOA

Analysis Batch: 214306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227790-1	SV-3	Total/NA	Air	TO-15	
MB 200-214306/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-214306/4	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 214344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227790-1 - DL	SV-3	Total/NA	Air	TO-15	
480-227790-2	OA-1	Total/NA	Air	TO-15	
MB 200-214344/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-214344/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Client Sample ID: SV-3
Lab Sample ID: 480-227790-1
Date Collected: 02/26/25 13:30
Matrix: Air
Date Received: 03/08/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	214306	K1P	EET BUR	03/18/25 05:44
Total/NA	Analysis	TO-15	DL	2.99	214344	A1B	EET BUR	03/18/25 13:28

Client Sample ID: OA-1
Lab Sample ID: 480-227790-2
Date Collected: 02/26/25 13:00
Matrix: Air
Date Received: 03/08/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	214344	A1B	EET BUR	03/18/25 14:19

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Laboratory: Eurofins Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	4-Ethyltoluene
TO-15		Air	4-Isopropyltoluene
TO-15		Air	Chlorodifluoromethane
TO-15		Air	Methyl Butyl Ketone (2-Hexanone)
TO-15		Air	n-Butane
TO-15		Air	n-Butylbenzene
TO-15		Air	n-Propylbenzene
TO-15		Air	sec-Butylbenzene
TO-15		Air	tert-Butylbenzene
TO-15		Air	Tetrahydrofuran

Method Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-227790-1	SV-3	Air	02/26/25 13:30	03/08/25 11:00	Air Canister (6-Liter) #34001294
480-227790-2	OA-1	Air	02/26/25 13:00	03/08/25 11:00	Air Canister (6-Liter) #5439

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Analyst	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID
480-227790	JR	3/8/2025	14:43	29.1	22	G38

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	Yes		
(2) Is the flow controller ID used for each canister recorded?	Yes		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		No	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		No	
If damage observed, list equipment IDs and describe condition:			

Laboratory	Canister ID	Pressure "Hg [1]	Fail (Y/N) [2]	Sampling FC ID [3]	FC Check Reference	Return (Y/N)	Can Cert	Comments
480-227790-A-1	34001294	-6.3	N	8835	05/96	Y	4804-63873	
480-227790-A-2	5439	-10.6	N	6559	05/80	Y	4804-63873	

[1] Criteria: Return Pressure should be between -1 and -12 ("Hg) with the exception of grab samples.
Grab samples, or if using 100 or 200mL/minute flow controllers, must be returned at no lower than -12"Hg, but have no other specific criteria.

[2] If return pressure is not within criteria, initiate Non-conformance Memo

[3] Subtact the retrun pressure from the final field pressure reading recorded on the FTDS.

[4] The difference should be less than ± 2.3 ("Hg), if it is not, initiate Non-conformance Memo.

[5] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802 660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

480-227790 Chain of Custody

Client Contact Information	**Client Project Manager:** Brian Fischer	**Samples Collected By:** Nicole Sunsuli	COC No
Company Name Rock	**Phone:**		____ of ____ COCs
Address 2558 Hamburg Tpke,	**Email:**		TALS Project #:
City/State/Zip Buffalo, NY 14218			**For Lab Use Only:**
Phone 716-713 3437	**Site Contact:** Nicole Sunsuli		Walk-in Client:
FAX	**Tel/Fax** 716-713-3437		Lab Sampling:
Project Name: North Ave Site	**Analysis Turnaround Time**		
Site/Location Buffalo NY	Standard (Specific): Standard		Job / SDG No :
P O # 4375.0002 Bud	Rush (Specifiy):		(See below for Add'l Items)

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SV-3	2/24/25	10:30	2/24/25	13:30	-30	-9	6935	5400 1284	X														
OA-1	2/24/25	9:00	2/24/25	13:00	-30	-10	6559	5439	X														

Temperature (Fahrenheit)			
Start	Interior	Ambient 38	
Stop		46	

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:
Cd + B. NYSDEC elevs

Samples Shipped by: Nicole Sunsuli	**Date / Time:** 3/7/25 10:30	**Samples Received by:**	3/7/25 10:30
Samples Relinquished by:	**Date / Time:** 3/7/25 11:25	**Received by:** FEDEX	3/8/25 1100
Relinquished by:	**Date / Time:**	**Received by:**	
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**	



ORIGIN ID:ONHA (716) 329-2570
ROCHESTER SERVICE CENTER
EUROFINS TEST AMERICA
125 WHITE SPRUCE BLVD
SUITE 500
ROCHESTER, NY 14623
UNITED STATES US

SHIP DATE: 07MAR25
ACTWGT: 35.00 LB
CAD: 258202577/INET4535

BILL SENDER

TO SAMPLE RECEIVING
EUROFINS BURLINGTON
530 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403
(716) 504-9830
INV
PO.
REF: SAMPLES TO BURLINGTON
DEPT.

FedEx Express

1 of 2
TRK# 0201 7725 5587 7424
MASTER
X0 BTVA

SATURDAY 12:00P
PRIORITY OVERNIGHT

05403
VT-US BTV



ORIGIN ID:ONHA (716) 329-2570
ROCHESTER SERVICE CENTER
EUROFINS TEST AMERICA
125 WHITE SPRUCE BLVD
SUITE 500
ROCHESTER, NY 14623
UNITED STATES US

SHIP DATE: 07MAR25
ACTWGT: 35.00 LB
CAD: 258202577/INET4535

BILL SENDER

TO SAMPLE RECEIVING
EUROFINS BURLINGTON
530 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403
(716) 504-9830
INV
PO.
REF: SAMPLES TO BURLINGTON
DEPT.

FedEx Express

2 of 2
MPS# 0263 7725 5587 7435
Mstr# 7725 5587 7424
0201
X0 BTVA

SATURDAY 12:00P
PRIORITY OVERNIGHT

05403
VT-US BTV

Part # 156297-435 HRDB2 EXP 03/25

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-227790-1

Login Number: 227790
List Number: 1
Creator: Reynolds, Jamie K

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	NA: Lab does not accept radioactive samples
The cooler's custody seal, if present, is intact.	N/A	No: Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	No: Thermal preservation not required
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	No: Thermal preservation not required
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 1/2	10		2/1/2025	1354	22	22	SML	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	5430	Ø	Ø	Ø	29.7	GA01	2/2/25	1127	←	22.0	GA01	2/4/25	1416	←	22.0
2	5460		Ø	Ø		GA01					GA01				
3	34001039		Ø	Ø		GA01					GA01				
4	34001294		Ø	Ø		GA01					GA01				
5	2604		Ø	Ø		GA01					GA01				
6	4325		Ø	Ø		GA01					GA01				
7	2632		Ø	Ø		GA01					GA01	←	←	←	
8	4804	Ø	Ø	Ø	29.7	GA01	2/4/25	1405	←	22.0	GA01	2/4/25	1038	←	22.0
9	2615	Ø	Ø	Ø	29.7	GA01	2/2/25	1127	←	22.0	GA01	2/4/25	1416	←	22.0
10	4308		Ø	Ø		GA01					GA01				
11	3541		Ø	Ø		GA01					GA01				
12	4309	←	Ø	Ø	←	GA01	↓	↓	↓	↓	GA01	↓	↓	↓	↓

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
4804	2/4/25	63873	KPI		XXXXXXX				2/4/25	JPB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Form ID: FAI023:12
Revision Date: 12/18/2018

TestAmerica Burlington

200-76807-A-8
4804
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 2/1/2025 12:00 AM 200-1976013
Loc: 200
76807
#8 A
Air-Storag

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-76807-1

SDG No.:

Client Sample ID: 4804 Lab Sample ID: 200-76807-8

Matrix: Air Lab File ID: 63873-22.d

Analysis Method: TO-15 Date Collected: 02/01/2025 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 02/04/2025 01:51

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 213326 Units: ppb v/v

Preparation Batch No.: Instrument ID: CHW.i

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.028	U	0.028	0.028
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.028	U	0.028	0.028
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.10	U	0.10	0.10
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.028	U	0.028	0.028
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-76807-1

SDG No.:

Client Sample ID: 4804 Lab Sample ID: 200-76807-8

Matrix: Air Lab File ID: 63873-22.d

Analysis Method: TO-15 Date Collected: 02/01/2025 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 02/04/2025 01:51

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 213326 Units: ppb v/v

Preparation Batch No.: Instrument ID: CHW.i

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.028	U	0.028	0.028
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.028	U	0.028	0.028
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-76807-1

SDG No.:

Client Sample ID: 4804 Lab Sample ID: 200-76807-8

Matrix: Air Lab File ID: 63873-22.d

Analysis Method: TO-15 Date Collected: 02/01/2025 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 02/04/2025 01:51

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 213326 Units: ppb v/v

Preparation Batch No.: Instrument ID: CHW.i

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20250203-63873.b\63873-22.d
Lims ID: 200-76807-A-8
Client ID: 4804
Sample Type: Client
Inject. Date: 04-Feb-2025 01:51:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0063873-022
Operator ID: vtp Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20250203-63873.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 04-Feb-2025 14:52:15 Calib Date: 08-Jan-2025 12:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20250107-63614.b\63614-25.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: YWL8 Date: 04-Feb-2025 14:52:15

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.067				ND	7
	2 Dichlorodifluoromethane	85		4.163				ND	
	3 Chlorodifluoromethane	51		4.200				ND	
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.500				ND	
	5 Chloromethane	50		4.618				ND	7
	6 Vinyl chloride	62		4.907				ND	
	7 Butane	43		4.912				ND	7
	8 Butadiene	54		5.024				ND	
	9 Bromomethane	94		5.762				ND	
	10 Chloroethane	64		6.062				ND	
	13 Vinyl bromide	106		6.533				ND	
	14 Trichlorofluoromethane	101		6.720				ND	
	16 Ethanol	45		7.164				ND	
	20 1,1-Dichloroethene	96		7.956				ND	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		8.004				ND	
	22 Acetone	43		8.047				ND	
	23 Isopropyl alcohol	45		8.400				ND	
	24 Carbon disulfide	76	8.448	8.448	0.000	94	886	0.0161	
	26 3-Chloro-1-propene	41		8.790				ND	
	27 Methylene Chloride	49	9.074	9.069	0.005	88	1294	0.0610	
	28 2-Methyl-2-propanol	59		9.315				ND	
	30 trans-1,2-Dichloroethene	61		9.678				ND	
	31 Methyl tert-butyl ether	73		9.678				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	32 Hexane	57		10.278				ND	
	33 1,1-Dichloroethane	63		10.577				ND	
	34 Vinyl acetate	43		10.583				ND	
	36 2-Butanone (MEK)	72		11.674				ND	
	37 cis-1,2-Dichloroethene	96		11.711				ND	
	38 Ethyl acetate	88		11.770				ND	
*	39 Chlorobromomethane	128	12.177	12.177	0.000	92	144057	10.0	
	40 Tetrahydrofuran	42		12.230				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Chloroform	83		12.369				ND	
	42 1,1,1-Trichloroethane	97		12.717				ND	
	43 Cyclohexane	84		12.878				ND	
	44 Carbon tetrachloride	117		13.027				ND	
	45 Benzene	78		13.402				ND	
	46 1,2-Dichloroethane	62		13.477				ND	
	47 Isooctane	57		13.632				ND	
	48 n-Heptane	43		13.958				ND	
*	49 1,4-Difluorobenzene	114	14.188	14.188	0.000	94	666941	10.0	
	51 Trichloroethene	95		14.659				ND	
	53 1,2-Dichloropropane	63		15.141				ND	
	54 Methyl methacrylate	69		15.210				ND	
	55 1,4-Dioxane	88		15.269				ND	
	57 Dibromomethane	174		15.306				ND	
	58 Dichlorobromomethane	83		15.627				ND	
	59 cis-1,3-Dichloropropene	75		16.467				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		16.713				ND	
	62 Toluene	92		17.141				ND	
	66 trans-1,3-Dichloropropene	75		17.553				ND	
	67 1,1,2-Trichloroethane	83		17.944				ND	
	68 Tetrachloroethene	166		18.174				ND	
	69 2-Hexanone	43		18.340				ND	
	70 Chlorodibromomethane	129		18.714				ND	
	71 Ethylene Dibromide	107		18.976				ND	
*	73 Chlorobenzene-d5	117	19.907	19.902	0.005	86	576594	10.0	
	74 Chlorobenzene	112		19.961				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	75 Ethylbenzene	91		20.148				ND	MU
	76 m-Xylene & p-Xylene	106		20.399				ND	
	78 o-Xylene	106		21.111				ND	
	79 Styrene	104		21.138				ND	
	81 Bromoform	173		21.464				ND	
	82 Isopropylbenzene	105		21.726				ND	
	83 1,1,2,2-Tetrachloroethane	83		22.186				ND	
	85 N-Propylbenzene	91		22.384				ND	
	86 2-Chlorotoluene	91		22.539				ND	
	87 4-Ethyltoluene	105		22.566				ND	
	88 1,3,5-Trimethylbenzene	105		22.652				ND	
	91 tert-Butylbenzene	119		23.112				ND	
	92 1,2,4-Trimethylbenzene	105		23.197				ND	
	93 sec-Butylbenzene	105		23.433				ND	
	94 1,3-Dichlorobenzene	146		23.625				ND	
	95 4-Isopropyltoluene	119		23.647				ND	
	96 1,4-Dichlorobenzene	146		23.775				ND	
	97 Benzyl chloride	91		23.919				ND	
	98 n-Butylbenzene	91		24.246				ND	
	99 1,2-Dichlorobenzene	146		24.310				ND	
	102 1,2,4-Trichlorobenzene	180		27.022				ND	
	103 Hexachlorobutadiene	225		27.295				ND	
	104 Naphthalene	128		27.579				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15WISs_00010	Amount Added:	20.00	Units: mL	Run Reagent

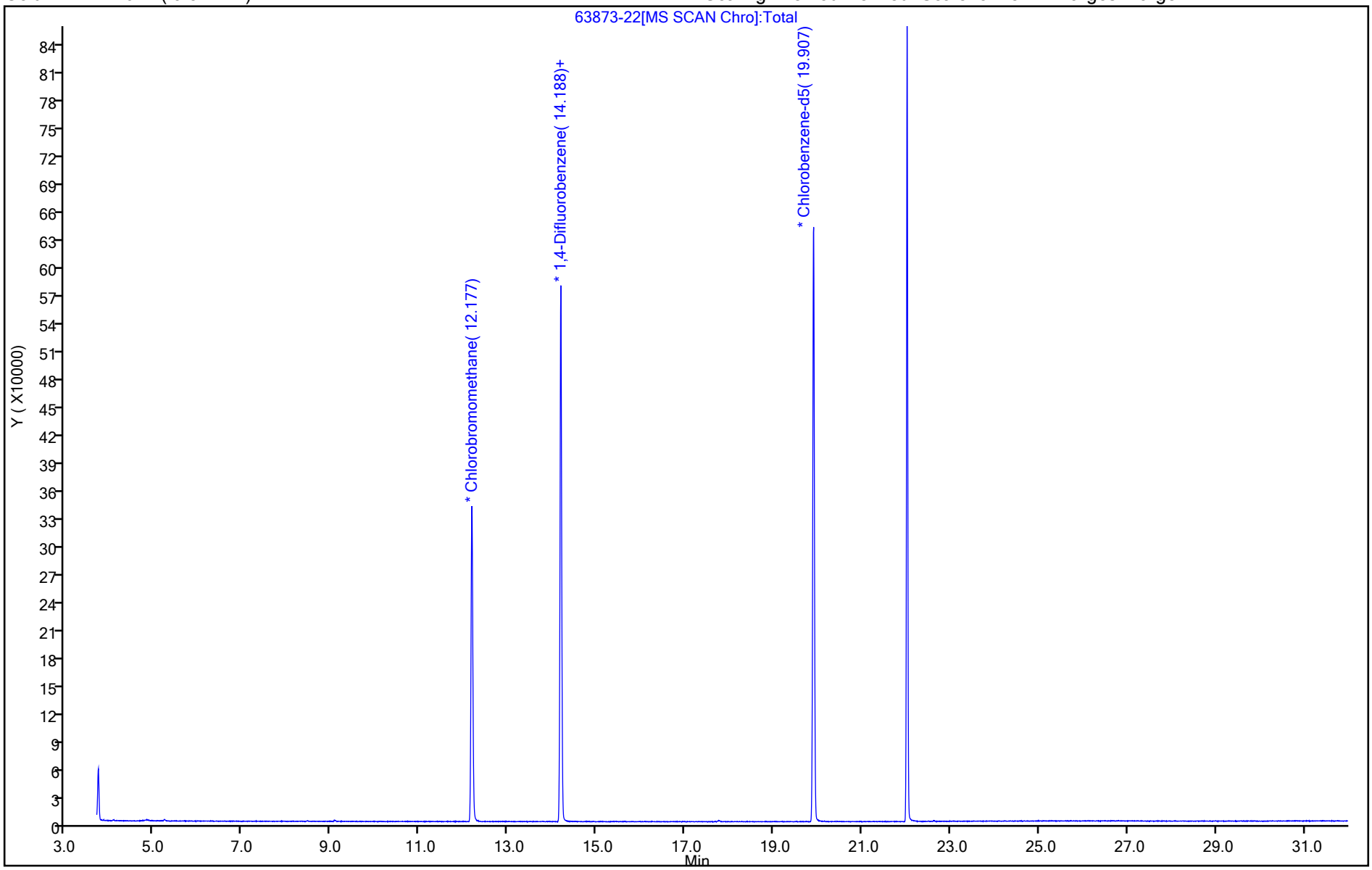
Report Date: 04-Feb-2025 14:52:15 Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20250203-63873.b\63873-22.d

Injection Date:	04-Feb-2025 01:51:30	Instrument ID:	CHW.i	Operator ID:	vtp
Lims ID:	200-76807-A-8	Lab Sample ID:	200-76807-8	Worklist Smp#:	22
Client ID:	4804				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	21
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



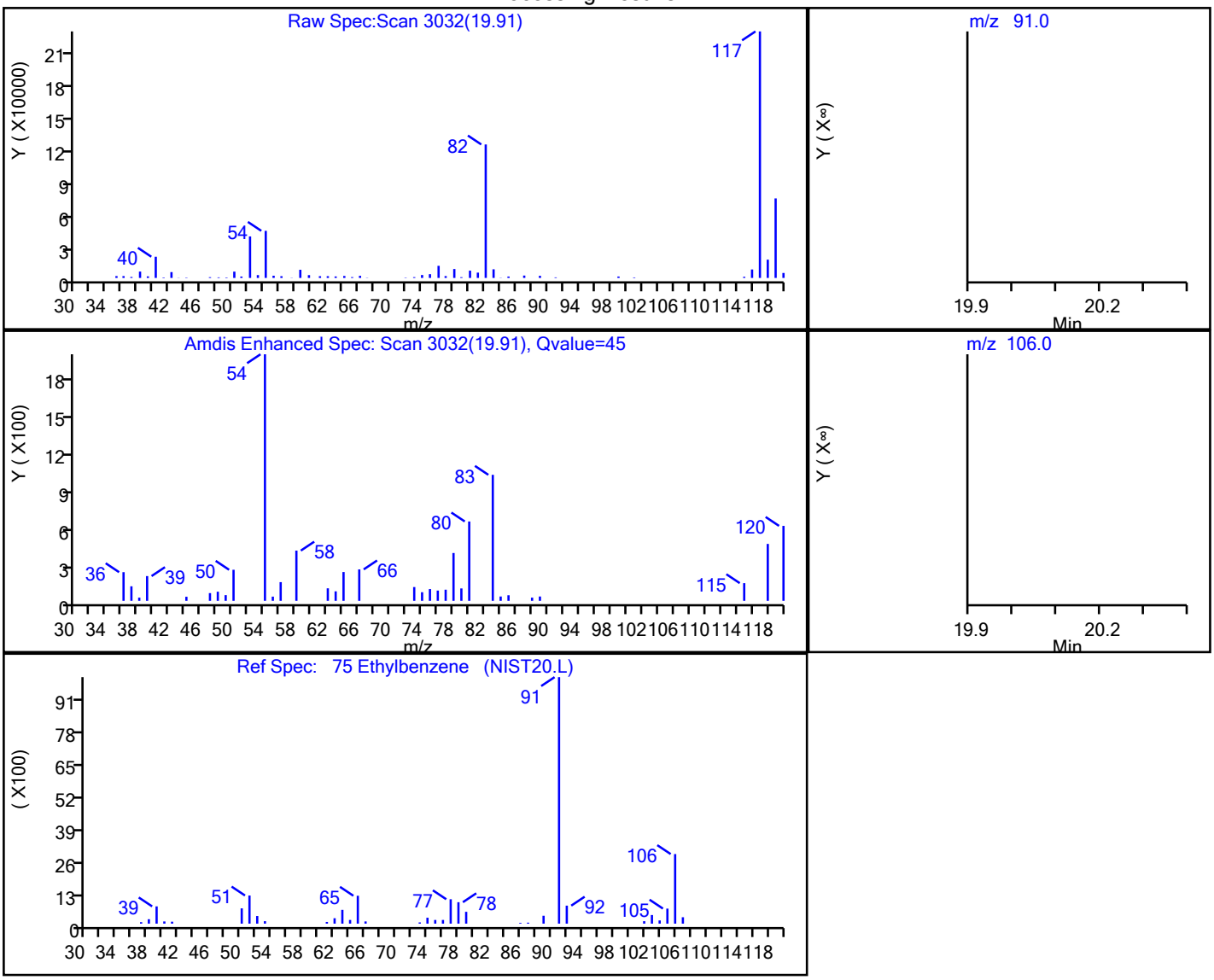
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHW.i\20250203-63873.b\63873-22.d				
Injection Date:	04-Feb-2025 01:51:30	Instrument ID:	CHW.i		
Lims ID:	200-76807-A-8	Lab Sample ID:	200-76807-8		
Client ID:	4804				
Operator ID:	vtp	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

75 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.91	91.00	1053	0.012490
20.15	106.00	0	

Reviewer: YWL8, 04-Feb-2025 14:51:57 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Generated 3/11/2025 4:47:16 PM

JOB DESCRIPTION

North Aud Block

JOB NUMBER

480-227586-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

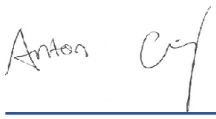
my EOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 9
Client Sample Results 15
Surrogate Summary 77
Isotope Dilution Summary 80
QC Sample Results 83
QC Association Summary 121
Lab Chronicle 128
Certification Summary 134
Method Summary 135
Sample Summary 136
Chain of Custody 137
Receipt Checklists 142

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
^5+	Linear Range Check (LRC) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
480-227586-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/28/2025 1:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.1°C, 1.4°C, 1.6°C, 2.2°C, 2.8°C and 3.1°C.

GC/MS VOA
Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-739933 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The following associated sample is impacted: MW-2 (480-227586-2[MS]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-740003 recovered outside acceptance criteria, low biased, for Carbazole. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: MW-3 (480-227586-3). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: MW-3 (480-227586-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D_SIM_MS_ID: The method blank for preparation batch 480-739939 contained 1,4-Dioxane above the reporting limit (RL). The following sample associated with this method blank did not contain the target compound above the RL; therefore, re-extraction and/or re-analysis of sample was not performed: MW-4 (480-227586-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: The method blank for preparation batch 480-740242 and analytical batch 480-740373 contained 4,4'-DDT, gamma-BHC (Lindane) and Methoxychlor above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed. The following associated samples are impacted: MW-1 (480-227586-1), MW-2 (480-227586-2), MW-3 (480-227586-3), MW-4 (480-227586-4), MW-5 (480-227586-5), MW-6 (480-227586-6) and BD (480-227586-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 480-227586-1 (Continued) Eurofins Buffalo

PFAS
Method 1633: Dilution performed due to high amount of particulate matter per analyst visual inspection. Aliquot taken. Laboratory proceeded with analysis: MW-3 (480-227586-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010C: The low level continuing calibration verification (CCVL) associated with batch 480-739981 recovered above the upper control limit for potassium. The samples associated with this CCV were non-detects or 10x for the affected analytes; therefore, the data have been reported.

Method 6010C: The low level continuing calibration verification (CCVL) associated with batch 480-740058 recovered above the upper control limit for potassium. The samples associated with this CCV were non-detects or 10x for the affected analytes; therefore, the data have been reported.

Method 6010C: The laboratory control sample (LCS) recovered outside control limit for the following analyte Si02. This analyte was biased high in the LCS. It has been determined that Si02 is high in the stock standard for the LCS, all other QC is acceptable and there is no impact to sample data.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-739981 is outside the acceptance criteria for the following analytes: silver, calcium, copper, iron, and zinc. The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-739981 is outside the acceptance criteria for the following analytes: silver, beryllium, calcium, copper, iron, and zinc. The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-739981 is outside the acceptance criteria for the following analytes: silver, calcium, and copper. The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-739981 is outside the acceptance criteria for the following analytes: silver, beryllium, copper, iron, and zinc. The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-739981 is outside the acceptance criteria for the following analytes: silver, copper,and iron. The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-739981 is outside the acceptance criteria for the following analytes: silver, beryllium, copper,and iron. The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-739981 is outside the acceptance criteria for the following analytes: iron, copper, and zinc. The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-739981 is outside the acceptance criteria for the following analytes: silver, copper, iron, and zinc. The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-739981 is outside the acceptance criteria for the following analytes: silver, copper , and iron. The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-740058 is outside the acceptance criteria for the following analytes: zinc. The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-740058 is outside the acceptance criteria for the following analytes: silver. The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Job ID: 480-227586-1 (Continued) Eurofins Buffalo

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-1
Lab Sample ID: 480-227586-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.54	J	1.0	0.46	ug/L	1		8260C	Total/NA
1,4-Dioxane	0.22	B	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Acetophenone	0.90	J	5.0	0.54	ug/L	1		8270D	Total/NA
Perfluorobutanoic acid (PFBA)	13		7.0	1.9	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	9.1		3.5	0.88	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	4.3		1.8	0.44	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.8	0.44	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	3.7		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	1.0	J I	1.8	0.44	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.99	J	1.8	0.44	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.8	0.44	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	1.8	0.45	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.8	0.44	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.3	J	7.0	1.8	ng/L	1		1633	Total/NA
Aluminum	7.2		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.19		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.00034	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Calcium	122		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0082		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.018		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.023		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	9.4		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.023		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	39.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.0		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.020		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	16.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	347		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.012		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.082		0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.11		0.0020	0.00070	mg/L	1		6010D	Dissolved
Calcium	88.0	^5-	0.50	0.10	mg/L	1		6010D	Dissolved
Cobalt	0.0042		0.0040	0.00063	mg/L	1		6010D	Dissolved
Lead	0.0036	J	0.010	0.0030	mg/L	1		6010D	Dissolved
Magnesium	25.3		0.20	0.043	mg/L	1		6010D	Dissolved
Manganese	0.50	B	0.0030	0.00040	mg/L	1		6010D	Dissolved
Nickel	0.0030	J	0.010	0.0013	mg/L	1		6010D	Dissolved
Potassium	11.8		0.50	0.10	mg/L	1		6010D	Dissolved
Sodium	324		1.0	0.32	mg/L	1		6010D	Dissolved

Client Sample ID: MW-2
Lab Sample ID: 480-227586-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.17	J B	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
4,4'-DDT	0.030	J B	0.050	0.011	ug/L	1		8081B	Total/NA
Perfluorobutanoic acid (PFBA)	12		7.0	1.9	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	15		3.5	0.88	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	8.2		1.8	0.44	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.4		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	6.6		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0		1.8	0.44	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: MW-2 (Continued)
Lab Sample ID: 480-227586-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	1.8		1.8	0.45	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.95	J	1.8	0.44	ng/L	1		1633	Total/NA
Aluminum	0.48	F1 F2	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.15		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	143		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0033	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0041	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	1.0	F1 F2	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0040	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	47.4		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.21	F1	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0056	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	36.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	530		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.013	B	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.14		0.0020	0.00070	mg/L	1		6010D	Dissolved
Calcium	140	^5-	0.50	0.10	mg/L	1		6010D	Dissolved
Cobalt	0.0025	J	0.0040	0.00063	mg/L	1		6010D	Dissolved
Lead	0.0048	J	0.010	0.0030	mg/L	1		6010D	Dissolved
Magnesium	45.8		0.20	0.043	mg/L	1		6010D	Dissolved
Manganese	0.17	B	0.0030	0.00040	mg/L	1		6010D	Dissolved
Nickel	0.0038	J	0.010	0.0013	mg/L	1		6010D	Dissolved
Potassium	36.2		0.50	0.10	mg/L	1		6010D	Dissolved
Sodium	538		1.0	0.32	mg/L	1		6010D	Dissolved
Zinc	0.0063	J ^5- B	0.010	0.0015	mg/L	1		6010D	Dissolved

Client Sample ID: MW-3
Lab Sample ID: 480-227586-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	0.30	J	1.0	0.16	ug/L	1		8260C	Total/NA
1,4-Dioxane	0.22	B	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	17	J	18	4.8	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	8.8	J	9.0	2.3	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	4.2	J	4.5	1.1	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3	J	4.5	1.1	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	4.1	J	4.5	1.1	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.8	J	4.5	1.1	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	4.5	1.2	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.7	J	4.5	1.1	ng/L	1		1633	Total/NA
Aluminum	3.1		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.34		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.00030	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Calcium	166		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0040		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.011		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.017		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	4.5		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.021		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	59.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.2		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.012		0.010	0.0013	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-3 (Continued)
Lab Sample ID: 480-227586-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	15.7	^+ ^2	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	413		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0079		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.036		0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.31		0.0020	0.00070	mg/L	1		6010D	Dissolved
Calcium	124		0.50	0.10	mg/L	1		6010D	Dissolved
Cobalt	0.0031	J	0.0040	0.00063	mg/L	1		6010D	Dissolved
Lead	0.0034	J	0.010	0.0030	mg/L	1		6010D	Dissolved
Magnesium	35.2		0.20	0.043	mg/L	1		6010D	Dissolved
Manganese	0.72	B	0.0030	0.00040	mg/L	1		6010D	Dissolved
Nickel	0.0031	J	0.010	0.0013	mg/L	1		6010D	Dissolved
Potassium	15.6		0.50	0.10	mg/L	1		6010D	Dissolved
Sodium	451		1.0	0.32	mg/L	1		6010D	Dissolved

Client Sample ID: MW-4
Lab Sample ID: 480-227586-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.19	J B	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
4,4'-DDT	0.030	J B	0.050	0.011	ug/L	1		8081B	Total/NA
delta-BHC	0.011	J	0.050	0.010	ug/L	1		8081B	Total/NA
Perfluorobutanoic acid (PFBA)	15		7.0	1.9	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	14		3.5	0.88	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	6.3		1.8	0.44	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.8	0.44	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	5.4		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.9		1.8	0.45	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.8	0.44	ng/L	1		1633	Total/NA
Aluminum	0.22		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.13		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	157		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0029	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0026	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.30		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	44.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.54		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0033	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	42.6	^+ ^2	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	450		1.0	0.32	mg/L	1		6010C	Total/NA
Barium	0.13		0.0020	0.00070	mg/L	1		6010D	Dissolved
Calcium	156		0.50	0.10	mg/L	1		6010D	Dissolved
Cobalt	0.0027	J	0.0040	0.00063	mg/L	1		6010D	Dissolved
Lead	0.0032	J	0.010	0.0030	mg/L	1		6010D	Dissolved
Magnesium	44.0		0.20	0.043	mg/L	1		6010D	Dissolved
Manganese	0.52	B	0.0030	0.00040	mg/L	1		6010D	Dissolved
Nickel	0.0024	J	0.010	0.0013	mg/L	1		6010D	Dissolved
Potassium	41.8		0.50	0.10	mg/L	1		6010D	Dissolved
Sodium	452		1.0	0.32	mg/L	1		6010D	Dissolved
Zinc	0.0094	J ^5- B	0.010	0.0015	mg/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-5
Lab Sample ID: 480-227586-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.27	B	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
4,4'-DDT	0.031	J B	0.050	0.011	ug/L	1		8081B	Total/NA
Perfluorobutanoic acid (PFBA)	10		7.2	1.9	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	10		3.6	0.90	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	8.5		1.8	0.45	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.8	0.45	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	3.1		1.8	0.45	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	24		1.8	0.45	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.51	J	1.8	0.46	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.8	0.45	ng/L	1		1633	Total/NA
Aluminum	3.8		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.10		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	148		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0051		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0037	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.019		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	4.6		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.036		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	34.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.26		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0066	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	6.2	^+	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	72.5		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.010		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.10		0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.065		0.0020	0.00070	mg/L	1		6010D	Dissolved
Calcium	122		0.50	0.10	mg/L	1		6010D	Dissolved
Cobalt	0.0013	J	0.0040	0.00063	mg/L	1		6010D	Dissolved
Copper	0.0033	J ^5+	0.010	0.0016	mg/L	1		6010D	Dissolved
Iron	0.029	J ^5-	0.050	0.019	mg/L	1		6010D	Dissolved
Lead	0.0039	J	0.010	0.0030	mg/L	1		6010D	Dissolved
Magnesium	21.5		0.20	0.043	mg/L	1		6010D	Dissolved
Manganese	0.10	B	0.0030	0.00040	mg/L	1		6010D	Dissolved
Nickel	0.0020	J	0.010	0.0013	mg/L	1		6010D	Dissolved
Potassium	5.3		0.50	0.10	mg/L	1		6010D	Dissolved
Sodium	75.5		1.0	0.32	mg/L	1		6010D	Dissolved
Zinc	0.020	^5- B	0.010	0.0015	mg/L	1		6010D	Dissolved
Mercury	0.000045	J	0.00020	0.000042	mg/L	1		7470A	Total/NA

Client Sample ID: MW-6
Lab Sample ID: 480-227586-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.16	J B	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Acetophenone	0.55	J	5.0	0.54	ug/L	1		8270D	Total/NA
4,4'-DDT	0.030	J B	0.050	0.011	ug/L	1		8081B	Total/NA
Perfluorobutanoic acid (PFBA)	6.4	J	7.2	1.9	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	4.4		3.6	0.89	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	5.5		1.8	0.45	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.1		1.8	0.45	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	12		1.8	0.45	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.3		1.8	0.45	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: MW-6 (Continued)
Lab Sample ID: 480-227586-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	2.5		1.8	0.46	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.4	I	1.8	0.45	ng/L	1		1633	Total/NA
Aluminum	1.6		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.078		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	215		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0024	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0015	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0053	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	1.8		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0055	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	38.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.27		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0032	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	22.2	^+ ^2	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	106		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0057		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.020		0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.072		0.0020	0.00070	mg/L	1		6010D	Dissolved
Calcium	206		0.50	0.10	mg/L	1		6010D	Dissolved
Cobalt	0.00074	J	0.0040	0.00063	mg/L	1		6010D	Dissolved
Copper	0.0023	J ^5+	0.010	0.0016	mg/L	1		6010D	Dissolved
Iron	0.029	J ^5-	0.050	0.019	mg/L	1		6010D	Dissolved
Magnesium	36.2		0.20	0.043	mg/L	1		6010D	Dissolved
Manganese	0.25	B	0.0030	0.00040	mg/L	1		6010D	Dissolved
Potassium	21.7		0.50	0.10	mg/L	1		6010D	Dissolved
Sodium	107		1.0	0.32	mg/L	1		6010D	Dissolved
Vanadium	0.0023	J	0.0050	0.0015	mg/L	1		6010D	Dissolved
Zinc	0.0023	J ^5- B	0.010	0.0015	mg/L	1		6010D	Dissolved

Client Sample ID: BD
Lab Sample ID: 480-227586-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.29	B	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	16		7.5	2.0	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	14		3.7	0.93	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	6.2		1.9	0.47	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.6	J	1.9	0.47	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	5.2		1.9	0.47	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.3		1.9	0.47	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.8	J	1.9	0.48	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.9	0.47	ng/L	1		1633	Total/NA
Aluminum	0.22		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.13		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	159		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0027	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0019	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.28		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0032	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	45.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.53		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0036	J	0.010	0.0013	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BD (Continued)
Lab Sample ID: 480-227586-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	43.3	^+ ^2	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	461		1.0	0.32	mg/L	1		6010C	Total/NA
Barium	0.13		0.0020	0.00070	mg/L	1		6010D	Dissolved
Calcium	157		0.50	0.10	mg/L	1		6010D	Dissolved
Cobalt	0.0027	J	0.0040	0.00063	mg/L	1		6010D	Dissolved
Copper	0.0017	J ^5+	0.010	0.0016	mg/L	1		6010D	Dissolved
Magnesium	44.4		0.20	0.043	mg/L	1		6010D	Dissolved
Manganese	0.53	B	0.0030	0.00040	mg/L	1		6010D	Dissolved
Nickel	0.0028	J	0.010	0.0013	mg/L	1		6010D	Dissolved
Potassium	42.4		0.50	0.10	mg/L	1		6010D	Dissolved
Sodium	456		1.0	0.32	mg/L	1		6010D	Dissolved

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 480-227586-8

No Detections.

Client Sample ID: FIELD BLANK
Lab Sample ID: 480-227586-9

No Detections.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-227586-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-1
Lab Sample ID: 480-227586-1
Date Collected: 02/27/25 12:45
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/03/25 14:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/03/25 14:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/03/25 14:24	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/03/25 14:24	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/03/25 14:24	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/03/25 14:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/03/25 14:24	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/03/25 14:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/03/25 14:24	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/03/25 14:24	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/03/25 14:24	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/03/25 14:24	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/03/25 14:24	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/03/25 14:24	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/03/25 14:24	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/03/25 14:24	1
2-Hexanone	ND		5.0	1.2	ug/L			03/03/25 14:24	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/03/25 14:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/03/25 14:24	1
Acetone	ND		10	3.0	ug/L			03/03/25 14:24	1
Benzene	ND		1.0	0.41	ug/L			03/03/25 14:24	1
Bromoform	ND		1.0	0.26	ug/L			03/03/25 14:24	1
Bromomethane	ND		1.0	0.69	ug/L			03/03/25 14:24	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/03/25 14:24	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/03/25 14:24	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/03/25 14:24	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/03/25 14:24	1
Chloroethane	ND		1.0	0.32	ug/L			03/03/25 14:24	1
Chloroform	ND		1.0	0.34	ug/L			03/03/25 14:24	1
Chloromethane	ND		1.0	0.35	ug/L			03/03/25 14:24	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/03/25 14:24	1
Cyclohexane	ND		1.0	0.18	ug/L			03/03/25 14:24	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/03/25 14:24	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/03/25 14:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/03/25 14:24	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/03/25 14:24	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/03/25 14:24	1
Methyl acetate	ND		2.5	1.3	ug/L			03/03/25 14:24	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/03/25 14:24	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/03/25 14:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/03/25 14:24	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/03/25 14:24	1
Naphthalene	ND		1.0	0.43	ug/L			03/03/25 14:24	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/03/25 14:24	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/03/25 14:24	1
o-Xylene	ND		1.0	0.76	ug/L			03/03/25 14:24	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/03/25 14:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/03/25 14:24	1
Toluene	ND		1.0	0.51	ug/L			03/03/25 14:24	1

Client Sample ID: MW-1
Date Collected: 02/27/25 12:45
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-1
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/03/25 14:24	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/03/25 14:24	1
Trichloroethene	0.54	J	1.0	0.46	ug/L			03/03/25 14:24	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/03/25 14:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/03/25 14:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/03/25 14:24	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/03/25 14:24	1
Styrene	ND		1.0	0.73	ug/L			03/03/25 14:24	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/03/25 14:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/03/25 14:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*03/03/25 14:24*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*03/03/25 14:24*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/03/25 14:24*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*03/03/25 14:24*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.22	B	0.20	0.10	ug/L		03/06/25 06:41	03/06/25 17:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*34*		*15 - 110*	*03/06/25 06:41*	*03/06/25 17:02*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		03/03/25 13:44	03/05/25 04:57	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/03/25 13:44	03/05/25 04:57	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/05/25 04:57	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/03/25 13:44	03/05/25 04:57	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/03/25 13:44	03/05/25 04:57	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/03/25 13:44	03/05/25 04:57	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/05/25 04:57	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/03/25 13:44	03/05/25 04:57	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/05/25 04:57	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/03/25 13:44	03/05/25 04:57	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/03/25 13:44	03/05/25 04:57	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/03/25 13:44	03/05/25 04:57	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/03/25 13:44	03/05/25 04:57	1
2-Nitroaniline	ND		10	0.42	ug/L		03/03/25 13:44	03/05/25 04:57	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/05/25 04:57	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/03/25 13:44	03/05/25 04:57	1
3-Nitroaniline	ND		10	0.48	ug/L		03/03/25 13:44	03/05/25 04:57	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/03/25 13:44	03/05/25 04:57	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/03/25 13:44	03/05/25 04:57	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/03/25 13:44	03/05/25 04:57	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/03/25 13:44	03/05/25 04:57	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/03/25 13:44	03/05/25 04:57	1
4-Methylphenol	ND		10	0.36	ug/L		03/03/25 13:44	03/05/25 04:57	1

Client Sample ID: MW-1
Date Collected: 02/27/25 12:45
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-1
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	0.25	ug/L		03/03/25 13:44	03/05/25 04:57	1
4-Nitrophenol	ND		10	1.5	ug/L		03/03/25 13:44	03/05/25 04:57	1
Acenaphthene	ND		5.0	0.41	ug/L		03/03/25 13:44	03/05/25 04:57	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/03/25 13:44	03/05/25 04:57	1
Acetophenone	**0.90**	**J**	5.0	0.54	ug/L		03/03/25 13:44	03/05/25 04:57	1
Anthracene	ND		5.0	0.28	ug/L		03/03/25 13:44	03/05/25 04:57	1
Atrazine	ND		5.0	0.46	ug/L		03/03/25 13:44	03/05/25 04:57	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/03/25 13:44	03/05/25 04:57	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/05/25 04:57	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/05/25 04:57	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/05/25 04:57	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/03/25 13:44	03/05/25 04:57	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/03/25 13:44	03/05/25 04:57	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/03/25 13:44	03/05/25 04:57	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/03/25 13:44	03/05/25 04:57	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/03/25 13:44	03/05/25 04:57	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/03/25 13:44	03/05/25 04:57	1
Caprolactam	ND		5.0	2.2	ug/L		03/03/25 13:44	03/05/25 04:57	1
Carbazole	ND		5.0	0.30	ug/L		03/03/25 13:44	03/05/25 04:57	1
Chrysene	ND		5.0	0.33	ug/L		03/03/25 13:44	03/05/25 04:57	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		03/03/25 13:44	03/05/25 04:57	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/03/25 13:44	03/05/25 04:57	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/03/25 13:44	03/05/25 04:57	1
Dibenzofuran	ND		10	0.51	ug/L		03/03/25 13:44	03/05/25 04:57	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/03/25 13:44	03/05/25 04:57	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/03/25 13:44	03/05/25 04:57	1
Fluoranthene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/05/25 04:57	1
Fluorene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/05/25 04:57	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/03/25 13:44	03/05/25 04:57	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/03/25 13:44	03/05/25 04:57	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/03/25 13:44	03/05/25 04:57	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/03/25 13:44	03/05/25 04:57	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/05/25 04:57	1
Isophorone	ND		5.0	0.43	ug/L		03/03/25 13:44	03/05/25 04:57	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/03/25 13:44	03/05/25 04:57	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/03/25 13:44	03/05/25 04:57	1
Naphthalene	ND		5.0	0.76	ug/L		03/03/25 13:44	03/05/25 04:57	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/03/25 13:44	03/05/25 04:57	1
Pentachlorophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/05/25 04:57	1
Phenanthrene	ND		5.0	0.44	ug/L		03/03/25 13:44	03/05/25 04:57	1
Phenol	ND		5.0	0.39	ug/L		03/03/25 13:44	03/05/25 04:57	1
Pyrene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/05/25 04:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*24*	*T J*	*ug/L*		*4.77*	*N/A*	*03/03/25 13:44*	*03/05/25 04:57*	*1*
Unknown	*2.0*	*T J*	*ug/L*		*5.47*	*N/A*	*03/03/25 13:44*	*03/05/25 04:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*25 - 144*	*03/03/25 13:44*	*03/05/25 04:57*	*1*
2-Fluorobiphenyl	*97*		*53 - 126*	*03/03/25 13:44*	*03/05/25 04:57*	*1*

Client Sample ID: MW-1
Lab Sample ID: 480-227586-1
Date Collected: 02/27/25 12:45
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*60*		*24 - 120*	*03/03/25 13:44*	*03/05/25 04:57*	*1*
Nitrobenzene-d5	*84*		*29 - 129*	*03/03/25 13:44*	*03/05/25 04:57*	*1*
p-Terphenyl-d14	*73*		*33 - 132*	*03/03/25 13:44*	*03/05/25 04:57*	*1*
Phenol-d5	*40*		*10 - 120*	*03/03/25 13:44*	*03/05/25 04:57*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		03/06/25 13:42	03/10/25 12:53	1
4,4'-DDE	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 12:53	1
4,4'-DDT	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 12:53	1
Aldrin	ND		0.050	0.0081	ug/L		03/06/25 13:42	03/10/25 12:53	1
alpha-BHC	ND		0.050	0.0077	ug/L		03/06/25 13:42	03/10/25 12:53	1
cis-Chlordane	ND		0.050	0.015	ug/L		03/06/25 13:42	03/10/25 12:53	1
beta-BHC	ND		0.050	0.025	ug/L		03/06/25 13:42	03/10/25 12:53	1
delta-BHC	ND		0.050	0.010	ug/L		03/06/25 13:42	03/10/25 12:53	1
Dieldrin	ND		0.050	0.0098	ug/L		03/06/25 13:42	03/10/25 12:53	1
Endosulfan I	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 12:53	1
Endosulfan II	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 12:53	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 12:53	1
Endrin	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 12:53	1
Endrin aldehyde	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 12:53	1
Endrin ketone	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 12:53	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		03/06/25 13:42	03/10/25 12:53	1
trans-Chlordane	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 12:53	1
Heptachlor	ND		0.050	0.0085	ug/L		03/06/25 13:42	03/10/25 12:53	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		03/06/25 13:42	03/10/25 12:53	1
Methoxychlor	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 12:53	1
Toxaphene	ND		0.50	0.12	ug/L		03/06/25 13:42	03/10/25 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*10 - 120*	*03/06/25 13:42*	*03/10/25 12:53*	*1*
DCB Decachlorobiphenyl	*60*		*10 - 120*	*03/06/25 13:42*	*03/10/25 12:53*	*1*
Tetrachloro-m-xylene	*72*		*10 - 120*	*03/06/25 13:42*	*03/10/25 12:53*	*1*
Tetrachloro-m-xylene	*72*		*10 - 120*	*03/06/25 13:42*	*03/10/25 12:53*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 20:40	1
PCB-1221	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 20:40	1
PCB-1232	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 20:40	1
PCB-1242	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 20:40	1
PCB-1248	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 20:40	1
PCB-1254	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 20:40	1
PCB-1260	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*10 - 123*	*03/04/25 06:40*	*03/04/25 20:40*	*1*
DCB Decachlorobiphenyl	*60*		*10 - 123*	*03/04/25 06:40*	*03/04/25 20:40*	*1*
Tetrachloro-m-xylene	*70*		*10 - 145*	*03/04/25 06:40*	*03/04/25 20:40*	*1*
Tetrachloro-m-xylene	*75*		*10 - 145*	*03/04/25 06:40*	*03/04/25 20:40*	*1*

Client Sample ID: MW-1
Date Collected: 02/27/25 12:45
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-1
Matrix: Water

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		03/04/25 09:32	03/05/25 12:31	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		03/04/25 09:32	03/05/25 12:31	1
2,4-D	ND		0.48	0.16	ug/L		03/04/25 09:32	03/05/25 12:31	1
Dichlorprop	ND		0.48	0.11	ug/L		03/04/25 09:32	03/05/25 12:31	1
Pentachlorophenol	ND		0.48	0.047	ug/L		03/04/25 09:32	03/05/25 12:31	1
Picloram	ND		0.48	0.069	ug/L		03/04/25 09:32	03/05/25 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*21 - 143*	*03/04/25 09:32*	*03/05/25 12:31*	*1*
2,4-Dichlorophenylacetic acid	*82*		*21 - 143*	*03/04/25 09:32*	*03/05/25 12:31*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**13**		7.0	1.9	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluoropentanoic acid (PFPeA)	**9.1**		3.5	0.88	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorohexanoic acid (PFHxA)	**4.3**		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluoroheptanoic acid (PFHpA)	**1.3**	**J**	1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorooctanoic acid (PFOA)	**3.7**		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorononanoic acid (PFNA)	**1.0**	**J I**	1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorodecanoic acid (PFDA)	**0.99**	**J**	1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorobutanesulfonic acid (PFBS)	**1.6**	**J**	1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorohexanesulfonic acid (PFHxS)	**1.2**	**J**	1.8	0.45	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorooctanesulfonic acid (PFOS)	**1.7**	**J**	1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:19	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:19	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	**2.3**	**J**	7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.54	ng/L		03/06/25 09:19	03/06/25 22:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.46	ng/L		03/06/25 09:19	03/06/25 22:19	1

Client Sample ID: MW-1
Date Collected: 02/27/25 12:45
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-1
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.4	ng/L		03/06/25 09:19	03/06/25 22:19	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.4	ng/L		03/06/25 09:19	03/06/25 22:19	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.5	0.88	ng/L		03/06/25 09:19	03/06/25 22:19	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.5	1.1	ng/L		03/06/25 09:19	03/06/25 22:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:19	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.5	0.88	ng/L		03/06/25 09:19	03/06/25 22:19	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.8	2.2	ng/L		03/06/25 09:19	03/06/25 22:19	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		44	11	ng/L		03/06/25 09:19	03/06/25 22:19	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		44	13	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:19	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.5	0.88	ng/L		03/06/25 09:19	03/06/25 22:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98.9*		*10 - 130*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C5 PFPeA	*96.3*		*35 - 150*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C5 PFHxA	*90.5*		*55 - 150*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C4 PFHpA	*98.3*		*55 - 150*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C8 PFOA	*87.8*		*60 - 140*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C9 PFNA	*84.5*		*55 - 140*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C6 PFDA	*80.2*		*50 - 140*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C7 PFUnA	*67.7*		*30 - 140*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C2 PFTeDA	*61.4*		*10 - 130*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C3 PFBS	*98.5*		*55 - 150*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C3 PFHxS	*82.6*		*55 - 150*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C8 PFOS	*77.4*		*45 - 140*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C8 PFOSA	*69.9*		*30 - 130*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
d3-NMeFOSAA	*76.8*		*45 - 200*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
d5-NEtFOSAA	*72.5*		*10 - 200*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
M2-4:2 FTS	*90.7*		*60 - 200*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
M2-6:2 FTS	*91.5*		*60 - 200*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
M2-8:2 FTS	*80.3*		*50 - 200*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C3 HFPO-DA	*98.1*		*25 - 160*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
d7-N-MeFOSE-M	*64.8*		*10 - 150*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
d9-N-EtFOSE-M	*46.2*		*10 - 150*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
d5-NEtPFOSA	*49.1*		*10 - 130*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
D3-NMeFOSA	*63.1*		*15 - 130*	*03/06/25 09:19*	*03/06/25 22:19*	*1*
13C2-PFDoDA	*56.2*		*10 - 150*	*03/06/25 09:19*	*03/06/25 22:19*	*1*

Client Sample ID: MW-1
Date Collected: 02/27/25 12:45
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-1
Matrix: Water

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7.2**		0.20	0.060	mg/L		03/03/25 08:07	03/03/25 16:19	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:07	03/03/25 16:19	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:07	03/03/25 16:19	1
Barium	**0.19**		0.0020	0.00070	mg/L		03/03/25 08:07	03/03/25 16:19	1
Beryllium	**0.00034**	**J**	0.0020	0.00030	mg/L		03/03/25 08:07	03/03/25 16:19	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:07	03/03/25 16:19	1
Calcium	**122**		0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:19	1
Chromium	**0.0082**		0.0040	0.0010	mg/L		03/03/25 08:07	03/03/25 16:19	1
Cobalt	**0.018**		0.0040	0.00063	mg/L		03/03/25 08:07	03/03/25 16:19	1
Copper	**0.023**		0.010	0.0016	mg/L		03/03/25 08:07	03/03/25 16:19	1
Iron	**9.4**		0.050	0.019	mg/L		03/03/25 08:07	03/03/25 16:19	1
Lead	**0.023**		0.010	0.0030	mg/L		03/03/25 08:07	03/03/25 16:19	1
Magnesium	**39.3**		0.20	0.043	mg/L		03/03/25 08:07	03/03/25 16:19	1
Manganese	**1.0**		0.0030	0.00040	mg/L		03/03/25 08:07	03/03/25 16:19	1
Nickel	**0.020**		0.010	0.0013	mg/L		03/03/25 08:07	03/03/25 16:19	1
Potassium	**16.0**		0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:19	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:07	03/03/25 16:19	1
Silver	ND		0.0060	0.0017	mg/L		03/03/25 08:07	03/03/25 16:19	1
Sodium	**347**		1.0	0.32	mg/L		03/03/25 08:07	03/03/25 16:19	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:07	03/03/25 16:19	1
Vanadium	**0.012**		0.0050	0.0015	mg/L		03/03/25 08:07	03/03/25 16:19	1
Zinc	**0.082**		0.010	0.0015	mg/L		03/03/25 08:07	03/03/25 16:19	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/25 08:04	03/03/25 15:37	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:04	03/03/25 15:37	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:04	03/03/25 15:37	1
Barium	**0.11**		0.0020	0.00070	mg/L		03/03/25 08:04	03/03/25 15:37	1
Beryllium	ND	^5-	0.0020	0.00030	mg/L		03/03/25 08:04	03/03/25 15:37	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:04	03/03/25 15:37	1
Calcium	**88.0**	**^5-**	0.50	0.10	mg/L		03/03/25 08:04	03/03/25 15:37	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:04	03/03/25 15:37	1
Cobalt	**0.0042**		0.0040	0.00063	mg/L		03/03/25 08:04	03/03/25 15:37	1
Copper	ND	^5+	0.010	0.0016	mg/L		03/03/25 08:04	03/03/25 15:37	1
Iron	ND	^5-	0.050	0.019	mg/L		03/03/25 08:04	03/03/25 15:37	1
Lead	**0.0036**	**J**	0.010	0.0030	mg/L		03/03/25 08:04	03/03/25 15:37	1
Magnesium	**25.3**		0.20	0.043	mg/L		03/03/25 08:04	03/03/25 15:37	1
Manganese	**0.50**	**B**	0.0030	0.00040	mg/L		03/03/25 08:04	03/03/25 15:37	1
Nickel	**0.0030**	**J**	0.010	0.0013	mg/L		03/03/25 08:04	03/03/25 15:37	1
Potassium	**11.8**		0.50	0.10	mg/L		03/03/25 08:04	03/03/25 15:37	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:04	03/03/25 15:37	1
Silver	ND	^5-	0.0060	0.0017	mg/L		03/03/25 08:04	03/03/25 15:37	1
Sodium	**324**		1.0	0.32	mg/L		03/03/25 08:04	03/03/25 15:37	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:04	03/03/25 15:37	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/25 08:04	03/03/25 15:37	1
Zinc	ND	^5-	0.010	0.0015	mg/L		03/03/25 08:04	03/03/25 15:37	1

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-1
Lab Sample ID: 480-227586-1

Date Collected: 02/27/25 12:45
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/05/25 09:29	03/05/25 13:31	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/04/25 10:22	03/04/25 14:41	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-2
Lab Sample ID: 480-227586-2
Date Collected: 02/27/25 11:00
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/03/25 14:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/03/25 14:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/03/25 14:48	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/03/25 14:48	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/03/25 14:48	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/03/25 14:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/03/25 14:48	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/03/25 14:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/03/25 14:48	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/03/25 14:48	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/03/25 14:48	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/03/25 14:48	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/03/25 14:48	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/03/25 14:48	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/03/25 14:48	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/03/25 14:48	1
2-Hexanone	ND		5.0	1.2	ug/L			03/03/25 14:48	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/03/25 14:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/03/25 14:48	1
Acetone	ND		10	3.0	ug/L			03/03/25 14:48	1
Benzene	ND		1.0	0.41	ug/L			03/03/25 14:48	1
Bromoform	ND		1.0	0.26	ug/L			03/03/25 14:48	1
Bromomethane	ND		1.0	0.69	ug/L			03/03/25 14:48	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/03/25 14:48	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/03/25 14:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/03/25 14:48	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/03/25 14:48	1
Chloroethane	ND		1.0	0.32	ug/L			03/03/25 14:48	1
Chloroform	ND		1.0	0.34	ug/L			03/03/25 14:48	1
Chloromethane	ND	F1	1.0	0.35	ug/L			03/03/25 14:48	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/03/25 14:48	1
Cyclohexane	ND		1.0	0.18	ug/L			03/03/25 14:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/03/25 14:48	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/03/25 14:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/03/25 14:48	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/03/25 14:48	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/03/25 14:48	1
Methyl acetate	ND		2.5	1.3	ug/L			03/03/25 14:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/03/25 14:48	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/03/25 14:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/03/25 14:48	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/03/25 14:48	1
Naphthalene	ND		1.0	0.43	ug/L			03/03/25 14:48	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/03/25 14:48	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/03/25 14:48	1
o-Xylene	ND		1.0	0.76	ug/L			03/03/25 14:48	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/03/25 14:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/03/25 14:48	1
Toluene	ND		1.0	0.51	ug/L			03/03/25 14:48	1

Client Sample ID: MW-2
Date Collected: 02/27/25 11:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/03/25 14:48	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/03/25 14:48	1
Trichloroethene	ND		1.0	0.46	ug/L			03/03/25 14:48	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/03/25 14:48	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/03/25 14:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/03/25 14:48	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/03/25 14:48	1
Styrene	ND		1.0	0.73	ug/L			03/03/25 14:48	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/03/25 14:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/03/25 14:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*03/03/25 14:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*03/03/25 14:48*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/03/25 14:48*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/03/25 14:48*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.17**	**J B**	0.20	0.10	ug/L		03/06/25 06:41	03/06/25 14:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*03/06/25 06:41*	*03/06/25 14:37*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		03/03/25 13:44	03/04/25 22:40	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/03/25 13:44	03/04/25 22:40	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/04/25 22:40	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/03/25 13:44	03/04/25 22:40	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/03/25 13:44	03/04/25 22:40	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/03/25 13:44	03/04/25 22:40	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/04/25 22:40	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/03/25 13:44	03/04/25 22:40	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/04/25 22:40	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/03/25 13:44	03/04/25 22:40	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/03/25 13:44	03/04/25 22:40	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/03/25 13:44	03/04/25 22:40	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/03/25 13:44	03/04/25 22:40	1
2-Nitroaniline	ND		10	0.42	ug/L		03/03/25 13:44	03/04/25 22:40	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/04/25 22:40	1
3,3'-Dichlorobenzidine	ND	F2	5.0	0.40	ug/L		03/03/25 13:44	03/04/25 22:40	1
3-Nitroaniline	ND		10	0.48	ug/L		03/03/25 13:44	03/04/25 22:40	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/03/25 13:44	03/04/25 22:40	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/03/25 13:44	03/04/25 22:40	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/03/25 13:44	03/04/25 22:40	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/03/25 13:44	03/04/25 22:40	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/03/25 13:44	03/04/25 22:40	1
4-Methylphenol	ND		10	0.36	ug/L		03/03/25 13:44	03/04/25 22:40	1

Client Sample ID: MW-2
Date Collected: 02/27/25 11:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-2
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	0.25	ug/L		03/03/25 13:44	03/04/25 22:40	1
4-Nitrophenol	ND		10	1.5	ug/L		03/03/25 13:44	03/04/25 22:40	1
Acenaphthene	ND		5.0	0.41	ug/L		03/03/25 13:44	03/04/25 22:40	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/03/25 13:44	03/04/25 22:40	1
Acetophenone	ND		5.0	0.54	ug/L		03/03/25 13:44	03/04/25 22:40	1
Anthracene	ND		5.0	0.28	ug/L		03/03/25 13:44	03/04/25 22:40	1
Atrazine	ND		5.0	0.46	ug/L		03/03/25 13:44	03/04/25 22:40	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/03/25 13:44	03/04/25 22:40	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/04/25 22:40	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/04/25 22:40	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/04/25 22:40	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/03/25 13:44	03/04/25 22:40	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/03/25 13:44	03/04/25 22:40	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/03/25 13:44	03/04/25 22:40	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/03/25 13:44	03/04/25 22:40	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/03/25 13:44	03/04/25 22:40	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/03/25 13:44	03/04/25 22:40	1
Caprolactam	ND		5.0	2.2	ug/L		03/03/25 13:44	03/04/25 22:40	1
Carbazole	ND		5.0	0.30	ug/L		03/03/25 13:44	03/04/25 22:40	1
Chrysene	ND		5.0	0.33	ug/L		03/03/25 13:44	03/04/25 22:40	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		03/03/25 13:44	03/04/25 22:40	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/03/25 13:44	03/04/25 22:40	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/03/25 13:44	03/04/25 22:40	1
Dibenzofuran	ND		10	0.51	ug/L		03/03/25 13:44	03/04/25 22:40	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/03/25 13:44	03/04/25 22:40	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/03/25 13:44	03/04/25 22:40	1
Fluoranthene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/04/25 22:40	1
Fluorene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/04/25 22:40	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/03/25 13:44	03/04/25 22:40	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/03/25 13:44	03/04/25 22:40	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/03/25 13:44	03/04/25 22:40	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/03/25 13:44	03/04/25 22:40	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/04/25 22:40	1
Isophorone	ND		5.0	0.43	ug/L		03/03/25 13:44	03/04/25 22:40	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/03/25 13:44	03/04/25 22:40	1
N-Nitrosodiphenylamine	ND	F2	5.0	0.51	ug/L		03/03/25 13:44	03/04/25 22:40	1
Naphthalene	ND		5.0	0.76	ug/L		03/03/25 13:44	03/04/25 22:40	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/03/25 13:44	03/04/25 22:40	1
Pentachlorophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/04/25 22:40	1
Phenanthrene	ND		5.0	0.44	ug/L		03/03/25 13:44	03/04/25 22:40	1
Phenol	ND		5.0	0.39	ug/L		03/03/25 13:44	03/04/25 22:40	1
Pyrene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/04/25 22:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*26*	*T J*	*ug/L*		*4.77*	*N/A*	*03/03/25 13:44*	*03/04/25 22:40*	*1*
Unknown	*1.7*	*T J*	*ug/L*		*5.47*	*N/A*	*03/03/25 13:44*	*03/04/25 22:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*25 - 144*	*03/03/25 13:44*	*03/04/25 22:40*	*1*
2-Fluorobiphenyl	*79*		*53 - 126*	*03/03/25 13:44*	*03/04/25 22:40*	*1*

Client Sample ID: MW-2
Date Collected: 02/27/25 11:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-2
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		24 - 120	03/03/25 13:44	03/04/25 22:40	1
Nitrobenzene-d5	70		29 - 129	03/03/25 13:44	03/04/25 22:40	1
p-Terphenyl-d14	87		33 - 132	03/03/25 13:44	03/04/25 22:40	1
Phenol-d5	32		10 - 120	03/03/25 13:44	03/04/25 22:40	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		03/06/25 13:42	03/10/25 11:34	1
4,4'-DDE	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 11:34	1
4,4'-DDT	**0.030**	**J B**	0.050	0.011	ug/L		03/06/25 13:42	03/10/25 11:34	1
Aldrin	ND		0.050	0.0081	ug/L		03/06/25 13:42	03/10/25 11:34	1
alpha-BHC	ND		0.050	0.0077	ug/L		03/06/25 13:42	03/10/25 11:34	1
cis-Chlordane	ND		0.050	0.015	ug/L		03/06/25 13:42	03/10/25 11:34	1
beta-BHC	ND		0.050	0.025	ug/L		03/06/25 13:42	03/10/25 11:34	1
delta-BHC	ND		0.050	0.010	ug/L		03/06/25 13:42	03/10/25 11:34	1
Dieldrin	ND		0.050	0.0098	ug/L		03/06/25 13:42	03/10/25 11:34	1
Endosulfan I	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 11:34	1
Endosulfan II	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 11:34	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 11:34	1
Endrin	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 11:34	1
Endrin aldehyde	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 11:34	1
Endrin ketone	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 11:34	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		03/06/25 13:42	03/10/25 11:34	1
trans-Chlordane	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 11:34	1
Heptachlor	ND		0.050	0.0085	ug/L		03/06/25 13:42	03/10/25 11:34	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		03/06/25 13:42	03/10/25 11:34	1
Methoxychlor	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 11:34	1
Toxaphene	ND		0.50	0.12	ug/L		03/06/25 13:42	03/10/25 11:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		10 - 120	03/06/25 13:42	03/10/25 11:34	1
DCB Decachlorobiphenyl	77		10 - 120	03/06/25 13:42	03/10/25 11:34	1
Tetrachloro-m-xylene	81		10 - 120	03/06/25 13:42	03/10/25 11:34	1
Tetrachloro-m-xylene	80		10 - 120	03/06/25 13:42	03/10/25 11:34	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 19:26	1
PCB-1221	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 19:26	1
PCB-1232	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 19:26	1
PCB-1242	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 19:26	1
PCB-1248	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 19:26	1
PCB-1254	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 19:26	1
PCB-1260	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		10 - 123	03/04/25 06:40	03/04/25 19:26	1
DCB Decachlorobiphenyl	75		10 - 123	03/04/25 06:40	03/04/25 19:26	1
Tetrachloro-m-xylene	64		10 - 145	03/04/25 06:40	03/04/25 19:26	1
Tetrachloro-m-xylene	70		10 - 145	03/04/25 06:40	03/04/25 19:26	1

Client Sample ID: MW-2
Date Collected: 02/27/25 11:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-2
Matrix: Water

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		03/04/25 09:32	03/05/25 12:12	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		03/04/25 09:32	03/05/25 12:12	1
2,4-D	ND		0.48	0.16	ug/L		03/04/25 09:32	03/05/25 12:12	1
Dichlorprop	ND		0.48	0.11	ug/L		03/04/25 09:32	03/05/25 12:12	1
Pentachlorophenol	ND		0.48	0.047	ug/L		03/04/25 09:32	03/05/25 12:12	1
Picloram	ND		0.48	0.069	ug/L		03/04/25 09:32	03/05/25 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*85*		*21 - 143*	*03/04/25 09:32*	*03/05/25 12:12*	*1*
2,4-Dichlorophenylacetic acid	*79*		*21 - 143*	*03/04/25 09:32*	*03/05/25 12:12*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**12**		7.0	1.9	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluoropentanoic acid (PFPeA)	**15**		3.5	0.88	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorohexanoic acid (PFHxA)	**8.2**		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluoroheptanoic acid (PFHpA)	**2.4**		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorooctanoic acid (PFOA)	**6.6**		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorobutanesulfonic acid (PFBS)	**2.0**		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorohexanesulfonic acid (PFHxS)	**1.8**		1.8	0.45	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorooctanesulfonic acid (PFOS)	**0.95**	**J**	1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:35	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:35	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.54	ng/L		03/06/25 09:19	03/06/25 22:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.46	ng/L		03/06/25 09:19	03/06/25 22:35	1

Client Sample ID: MW-2
Date Collected: 02/27/25 11:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-2
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.4	ng/L		03/06/25 09:19	03/06/25 22:35	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.4	ng/L		03/06/25 09:19	03/06/25 22:35	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.5	0.88	ng/L		03/06/25 09:19	03/06/25 22:35	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.5	1.1	ng/L		03/06/25 09:19	03/06/25 22:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.5	0.88	ng/L		03/06/25 09:19	03/06/25 22:35	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.8	2.2	ng/L		03/06/25 09:19	03/06/25 22:35	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		44	11	ng/L		03/06/25 09:19	03/06/25 22:35	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		44	13	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/06/25 22:35	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.5	0.88	ng/L		03/06/25 09:19	03/06/25 22:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*82.8*		*10 - 130*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C5 PFPeA	*84.3*		*35 - 150*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C5 PFHxA	*75.9*		*55 - 150*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C4 PFHpA	*84.9*		*55 - 150*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C8 PFOA	*73.0*		*60 - 140*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C9 PFNA	*66.7*		*55 - 140*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C6 PFDA	*68.0*		*50 - 140*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C7 PFUnA	*72.0*		*30 - 140*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C2 PFTeDA	*71.7*		*10 - 130*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C3 PFBS	*77.3*		*55 - 150*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C3 PFHxS	*70.4*		*55 - 150*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C8 PFOS	*76.0*		*45 - 140*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C8 PFOSA	*75.7*		*30 - 130*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
d3-NMeFOSAA	*74.3*		*45 - 200*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
d5-NEtFOSAA	*73.4*		*10 - 200*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
M2-4:2 FTS	*74.4*		*60 - 200*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
M2-6:2 FTS	*74.3*		*60 - 200*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
M2-8:2 FTS	*71.2*		*50 - 200*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C3 HFPO-DA	*85.1*		*25 - 160*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
d7-N-MeFOSE-M	*76.2*		*10 - 150*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
d9-N-EtFOSE-M	*64.2*		*10 - 150*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
d5-NEtPFOSA	*58.1*		*10 - 130*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
D3-NMeFOSA	*68.8*		*15 - 130*	*03/06/25 09:19*	*03/06/25 22:35*	*1*
13C2-PFDoDA	*68.1*		*10 - 150*	*03/06/25 09:19*	*03/06/25 22:35*	*1*

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-2
Date Collected: 02/27/25 11:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-2
Matrix: Water

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.48**	**F1 F2**	0.20	0.060	mg/L		03/03/25 08:07	03/03/25 16:21	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:07	03/03/25 16:21	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:07	03/03/25 16:21	1
Barium	**0.15**		0.0020	0.00070	mg/L		03/03/25 08:07	03/03/25 16:21	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/25 08:07	03/03/25 16:21	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:07	03/03/25 16:21	1
Calcium	**143**		0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:21	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:07	03/03/25 16:21	1
Cobalt	**0.0033**	**J**	0.0040	0.00063	mg/L		03/03/25 08:07	03/03/25 16:21	1
Copper	**0.0041**	**J**	0.010	0.0016	mg/L		03/03/25 08:07	03/03/25 16:21	1
Iron	**1.0**	**F1 F2**	0.050	0.019	mg/L		03/03/25 08:07	03/03/25 16:21	1
Lead	**0.0040**	**J**	0.010	0.0030	mg/L		03/03/25 08:07	03/03/25 16:21	1
Magnesium	**47.4**		0.20	0.043	mg/L		03/03/25 08:07	03/03/25 16:21	1
Manganese	**0.21**	**F1**	0.0030	0.00040	mg/L		03/03/25 08:07	03/03/25 16:21	1
Nickel	**0.0056**	**J**	0.010	0.0013	mg/L		03/03/25 08:07	03/03/25 16:21	1
Potassium	**36.6**		0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:21	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:07	03/03/25 16:21	1
Silver	ND		0.0060	0.0017	mg/L		03/03/25 08:07	03/03/25 16:21	1
Sodium	**530**		1.0	0.32	mg/L		03/03/25 08:07	03/03/25 16:21	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:07	03/03/25 16:21	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/25 08:07	03/03/25 16:21	1
Zinc	**0.013**	**B**	0.010	0.0015	mg/L		03/03/25 08:07	03/04/25 15:57	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/25 08:04	03/03/25 15:39	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:04	03/03/25 15:39	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:04	03/03/25 15:39	1
Barium	**0.14**		0.0020	0.00070	mg/L		03/03/25 08:04	03/03/25 15:39	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/25 08:04	03/04/25 16:44	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:04	03/03/25 15:39	1
Calcium	**140**	**^5-**	0.50	0.10	mg/L		03/03/25 08:04	03/03/25 15:39	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:04	03/03/25 15:39	1
Cobalt	**0.0025**	**J**	0.0040	0.00063	mg/L		03/03/25 08:04	03/03/25 15:39	1
Copper	ND	^5+	0.010	0.0016	mg/L		03/03/25 08:04	03/03/25 15:39	1
Iron	ND		0.050	0.019	mg/L		03/03/25 08:04	03/03/25 15:39	1
Lead	**0.0048**	**J**	0.010	0.0030	mg/L		03/03/25 08:04	03/03/25 15:39	1
Magnesium	**45.8**		0.20	0.043	mg/L		03/03/25 08:04	03/03/25 15:39	1
Manganese	**0.17**	**B**	0.0030	0.00040	mg/L		03/03/25 08:04	03/03/25 15:39	1
Nickel	**0.0038**	**J**	0.010	0.0013	mg/L		03/03/25 08:04	03/03/25 15:39	1
Potassium	**36.2**		0.50	0.10	mg/L		03/03/25 08:04	03/03/25 15:39	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:04	03/03/25 15:39	1
Silver	ND	^5-	0.0060	0.0017	mg/L		03/03/25 08:04	03/03/25 15:39	1
Sodium	**538**		1.0	0.32	mg/L		03/03/25 08:04	03/03/25 15:39	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:04	03/03/25 15:39	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/25 08:04	03/03/25 15:39	1
Zinc	**0.0063**	**J ^5- B**	0.010	0.0015	mg/L		03/03/25 08:04	03/04/25 16:44	1

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-2
Lab Sample ID: 480-227586-2
Date Collected: 02/27/25 11:00
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/05/25 09:29	03/05/25 13:32	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/04/25 10:22	03/04/25 14:46	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-3
Lab Sample ID: 480-227586-3
Date Collected: 02/27/25 14:15
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/03/25 15:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/03/25 15:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/03/25 15:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/03/25 15:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/03/25 15:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/03/25 15:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/03/25 15:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/03/25 15:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/03/25 15:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/03/25 15:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/03/25 15:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/03/25 15:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/03/25 15:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/03/25 15:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/03/25 15:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/03/25 15:13	1
2-Hexanone	ND		5.0	1.2	ug/L			03/03/25 15:13	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/03/25 15:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/03/25 15:13	1
Acetone	ND		10	3.0	ug/L			03/03/25 15:13	1
Benzene	ND		1.0	0.41	ug/L			03/03/25 15:13	1
Bromoform	ND		1.0	0.26	ug/L			03/03/25 15:13	1
Bromomethane	ND		1.0	0.69	ug/L			03/03/25 15:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/03/25 15:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/03/25 15:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/03/25 15:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/03/25 15:13	1
Chloroethane	ND		1.0	0.32	ug/L			03/03/25 15:13	1
Chloroform	ND		1.0	0.34	ug/L			03/03/25 15:13	1
Chloromethane	ND		1.0	0.35	ug/L			03/03/25 15:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/03/25 15:13	1
Cyclohexane	ND		1.0	0.18	ug/L			03/03/25 15:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/03/25 15:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/03/25 15:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/03/25 15:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/03/25 15:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/03/25 15:13	1
Methyl acetate	ND		2.5	1.3	ug/L			03/03/25 15:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/03/25 15:13	1
Methylcyclohexane	**0.30**	**J**	1.0	0.16	ug/L			03/03/25 15:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/03/25 15:13	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/03/25 15:13	1
Naphthalene	ND		1.0	0.43	ug/L			03/03/25 15:13	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/03/25 15:13	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/03/25 15:13	1
o-Xylene	ND		1.0	0.76	ug/L			03/03/25 15:13	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/03/25 15:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/03/25 15:13	1
Toluene	ND		1.0	0.51	ug/L			03/03/25 15:13	1

Client Sample ID: MW-3
Date Collected: 02/27/25 14:15
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-3
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/03/25 15:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/03/25 15:13	1
Trichloroethene	ND		1.0	0.46	ug/L			03/03/25 15:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/03/25 15:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/03/25 15:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/03/25 15:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/03/25 15:13	1
Styrene	ND		1.0	0.73	ug/L			03/03/25 15:13	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/03/25 15:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/03/25 15:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*03/03/25 15:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*03/03/25 15:13*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/03/25 15:13*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*03/03/25 15:13*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.22**	**B**	0.20	0.10	ug/L		03/06/25 06:41	03/06/25 17:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*15 - 110*	*03/06/25 06:41*	*03/06/25 17:23*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		250	33	ug/L		03/03/25 13:44	03/06/25 10:12	50
bis (2-chloroisopropyl) ether	ND		250	26	ug/L		03/03/25 13:44	03/06/25 10:12	50
2,4,5-Trichlorophenol	ND		250	24	ug/L		03/03/25 13:44	03/06/25 10:12	50
2,4,6-Trichlorophenol	ND		250	31	ug/L		03/03/25 13:44	03/06/25 10:12	50
2,4-Dichlorophenol	ND		250	26	ug/L		03/03/25 13:44	03/06/25 10:12	50
2,4-Dimethylphenol	ND		250	25	ug/L		03/03/25 13:44	03/06/25 10:12	50
2,4-Dinitrophenol	ND		500	110	ug/L		03/03/25 13:44	03/06/25 10:12	50
2,4-Dinitrotoluene	ND		250	22	ug/L		03/03/25 13:44	03/06/25 10:12	50
2,6-Dinitrotoluene	ND		250	20	ug/L		03/03/25 13:44	03/06/25 10:12	50
2-Chloronaphthalene	ND		250	23	ug/L		03/03/25 13:44	03/06/25 10:12	50
2-Chlorophenol	ND		250	27	ug/L		03/03/25 13:44	03/06/25 10:12	50
2-Methylnaphthalene	ND		250	30	ug/L		03/03/25 13:44	03/06/25 10:12	50
2-Methylphenol	ND		250	20	ug/L		03/03/25 13:44	03/06/25 10:12	50
2-Nitroaniline	ND		500	21	ug/L		03/03/25 13:44	03/06/25 10:12	50
2-Nitrophenol	ND		250	24	ug/L		03/03/25 13:44	03/06/25 10:12	50
3,3'-Dichlorobenzidine	ND		250	20	ug/L		03/03/25 13:44	03/06/25 10:12	50
3-Nitroaniline	ND		500	24	ug/L		03/03/25 13:44	03/06/25 10:12	50
4,6-Dinitro-2-methylphenol	ND		500	110	ug/L		03/03/25 13:44	03/06/25 10:12	50
4-Bromophenyl phenyl ether	ND		250	23	ug/L		03/03/25 13:44	03/06/25 10:12	50
4-Chloro-3-methylphenol	ND		250	23	ug/L		03/03/25 13:44	03/06/25 10:12	50
4-Chloroaniline	ND		250	30	ug/L		03/03/25 13:44	03/06/25 10:12	50
4-Chlorophenyl phenyl ether	ND		250	18	ug/L		03/03/25 13:44	03/06/25 10:12	50
4-Methylphenol	ND		500	18	ug/L		03/03/25 13:44	03/06/25 10:12	50

Client Sample ID: MW-3
Date Collected: 02/27/25 14:15
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-3
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		500	13	ug/L		03/03/25 13:44	03/06/25 10:12	50
4-Nitrophenol	ND		500	76	ug/L		03/03/25 13:44	03/06/25 10:12	50
Acenaphthene	ND		250	21	ug/L		03/03/25 13:44	03/06/25 10:12	50
Acenaphthylene	ND		250	19	ug/L		03/03/25 13:44	03/06/25 10:12	50
Acetophenone	ND		250	27	ug/L		03/03/25 13:44	03/06/25 10:12	50
Anthracene	ND		250	14	ug/L		03/03/25 13:44	03/06/25 10:12	50
Atrazine	ND		250	23	ug/L		03/03/25 13:44	03/06/25 10:12	50
Benzaldehyde	ND		250	13	ug/L		03/03/25 13:44	03/06/25 10:12	50
Benzo(a)anthracene	ND		250	18	ug/L		03/03/25 13:44	03/06/25 10:12	50
Benzo(a)pyrene	ND		250	24	ug/L		03/03/25 13:44	03/06/25 10:12	50
Benzo(b)fluoranthene	ND		250	17	ug/L		03/03/25 13:44	03/06/25 10:12	50
Benzo(g,h,i)perylene	ND		250	18	ug/L		03/03/25 13:44	03/06/25 10:12	50
Benzo(k)fluoranthene	ND		250	37	ug/L		03/03/25 13:44	03/06/25 10:12	50
Bis(2-chloroethoxy)methane	ND		250	18	ug/L		03/03/25 13:44	03/06/25 10:12	50
Bis(2-chloroethyl)ether	ND		250	20	ug/L		03/03/25 13:44	03/06/25 10:12	50
Bis(2-ethylhexyl) phthalate	ND		250	110	ug/L		03/03/25 13:44	03/06/25 10:12	50
Butyl benzyl phthalate	ND		250	50	ug/L		03/03/25 13:44	03/06/25 10:12	50
Caprolactam	ND		250	110	ug/L		03/03/25 13:44	03/06/25 10:12	50
Carbazole	ND		250	15	ug/L		03/03/25 13:44	03/06/25 10:12	50
Chrysene	ND		250	17	ug/L		03/03/25 13:44	03/06/25 10:12	50
Di-n-butyl phthalate	ND		250	16	ug/L		03/03/25 13:44	03/06/25 10:12	50
Di-n-octyl phthalate	ND		250	24	ug/L		03/03/25 13:44	03/06/25 10:12	50
Dibenz(a,h)anthracene	ND		250	21	ug/L		03/03/25 13:44	03/06/25 10:12	50
Dibenzofuran	ND		500	26	ug/L		03/03/25 13:44	03/06/25 10:12	50
Diethyl phthalate	ND		250	11	ug/L		03/03/25 13:44	03/06/25 10:12	50
Dimethyl phthalate	ND		250	18	ug/L		03/03/25 13:44	03/06/25 10:12	50
Fluoranthene	ND		250	20	ug/L		03/03/25 13:44	03/06/25 10:12	50
Fluorene	ND		250	18	ug/L		03/03/25 13:44	03/06/25 10:12	50
Hexachlorobenzene	ND		250	26	ug/L		03/03/25 13:44	03/06/25 10:12	50
Hexachlorobutadiene	ND		250	34	ug/L		03/03/25 13:44	03/06/25 10:12	50
Hexachlorocyclopentadiene	ND		250	30	ug/L		03/03/25 13:44	03/06/25 10:12	50
Hexachloroethane	ND		250	30	ug/L		03/03/25 13:44	03/06/25 10:12	50
Indeno(1,2,3-cd)pyrene	ND		250	24	ug/L		03/03/25 13:44	03/06/25 10:12	50
Isophorone	ND		250	22	ug/L		03/03/25 13:44	03/06/25 10:12	50
N-Nitrosodi-n-propylamine	ND		250	27	ug/L		03/03/25 13:44	03/06/25 10:12	50
N-Nitrosodiphenylamine	ND		250	26	ug/L		03/03/25 13:44	03/06/25 10:12	50
Naphthalene	ND		250	38	ug/L		03/03/25 13:44	03/06/25 10:12	50
Nitrobenzene	ND		250	15	ug/L		03/03/25 13:44	03/06/25 10:12	50
Pentachlorophenol	ND		500	110	ug/L		03/03/25 13:44	03/06/25 10:12	50
Phenanthrene	ND		250	22	ug/L		03/03/25 13:44	03/06/25 10:12	50
Phenol	ND		250	20	ug/L		03/03/25 13:44	03/06/25 10:12	50
Pyrene	ND		250	17	ug/L		03/03/25 13:44	03/06/25 10:12	50

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*180*	*T J N*	*ug/L*		*4.30*	*141-79-7*	*03/03/25 13:44*	*03/06/25 10:12*	*50*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*25 - 144*	*03/03/25 13:44*	*03/06/25 10:12*	*50*
2-Fluorobiphenyl	*74*		*53 - 126*	*03/03/25 13:44*	*03/06/25 10:12*	*50*
2-Fluorophenol	*40*		*24 - 120*	*03/03/25 13:44*	*03/06/25 10:12*	*50*

Client Sample ID: MW-3
Date Collected: 02/27/25 14:15
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-3
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*58*		*29 - 129*	*03/03/25 13:44*	*03/06/25 10:12*	*50*
p-Terphenyl-d14	*58*		*33 - 132*	*03/03/25 13:44*	*03/06/25 10:12*	*50*
Phenol-d5	*29*		*10 - 120*	*03/03/25 13:44*	*03/06/25 10:12*	*50*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		03/06/25 13:42	03/10/25 13:12	1
4,4'-DDE	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 13:12	1
4,4'-DDT	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 13:12	1
Aldrin	ND		0.050	0.0081	ug/L		03/06/25 13:42	03/10/25 13:12	1
alpha-BHC	ND		0.050	0.0077	ug/L		03/06/25 13:42	03/10/25 13:12	1
cis-Chlordane	ND		0.050	0.015	ug/L		03/06/25 13:42	03/10/25 13:12	1
beta-BHC	ND		0.050	0.025	ug/L		03/06/25 13:42	03/10/25 13:12	1
delta-BHC	ND		0.050	0.010	ug/L		03/06/25 13:42	03/10/25 13:12	1
Dieldrin	ND		0.050	0.0098	ug/L		03/06/25 13:42	03/10/25 13:12	1
Endosulfan I	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 13:12	1
Endosulfan II	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 13:12	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 13:12	1
Endrin	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 13:12	1
Endrin aldehyde	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 13:12	1
Endrin ketone	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 13:12	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		03/06/25 13:42	03/10/25 13:12	1
trans-Chlordane	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 13:12	1
Heptachlor	ND		0.050	0.0085	ug/L		03/06/25 13:42	03/10/25 13:12	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		03/06/25 13:42	03/10/25 13:12	1
Methoxychlor	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 13:12	1
Toxaphene	ND		0.50	0.12	ug/L		03/06/25 13:42	03/10/25 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*78*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:12*	*1*
DCB Decachlorobiphenyl	*66*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:12*	*1*
Tetrachloro-m-xylene	*78*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:12*	*1*
Tetrachloro-m-xylene	*77*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:12*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 20:58	1
PCB-1221	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 20:58	1
PCB-1232	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 20:58	1
PCB-1242	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 20:58	1
PCB-1248	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 20:58	1
PCB-1254	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 20:58	1
PCB-1260	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*54*		*10 - 123*	*03/04/25 06:40*	*03/04/25 20:58*	*1*
DCB Decachlorobiphenyl	*59*		*10 - 123*	*03/04/25 06:40*	*03/04/25 20:58*	*1*
Tetrachloro-m-xylene	*77*		*10 - 145*	*03/04/25 06:40*	*03/04/25 20:58*	*1*
Tetrachloro-m-xylene	*82*		*10 - 145*	*03/04/25 06:40*	*03/04/25 20:58*	*1*

Client Sample ID: MW-3
Date Collected: 02/27/25 14:15
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-3
Matrix: Water

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		03/04/25 09:32	03/05/25 12:50	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		03/04/25 09:32	03/05/25 12:50	1
2,4-D	ND		0.48	0.17	ug/L		03/04/25 09:32	03/05/25 12:50	1
Dichlorprop	ND		0.48	0.11	ug/L		03/04/25 09:32	03/05/25 12:50	1
Pentachlorophenol	ND		0.48	0.047	ug/L		03/04/25 09:32	03/05/25 12:50	1
Picloram	ND		0.48	0.069	ug/L		03/04/25 09:32	03/05/25 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*77*		*21 - 143*	*03/04/25 09:32*	*03/05/25 12:50*	*1*
2,4-Dichlorophenylacetic acid	*81*		*21 - 143*	*03/04/25 09:32*	*03/05/25 12:50*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**17**	**J**	18	4.8	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluoropentanoic acid (PFPeA)	**8.8**	**J**	9.0	2.3	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorohexanoic acid (PFHxA)	**4.2**	**J**	4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluoroheptanoic acid (PFHpA)	**1.3**	**J**	4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorooctanoic acid (PFOA)	**4.1**	**J**	4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorononanoic acid (PFNA)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorodecanoic acid (PFDA)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluoroundecanoic acid (PFUnA)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorododecanoic acid (PFDoA)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorotridecanoic acid (PFTrDA)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorotetradecanoic acid (PFTeDA)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorobutanesulfonic acid (PFBS)	**1.8**	**J**	4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluoropentanesulfonic acid (PFPeS)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorohexanesulfonic acid (PFHxS)	**1.4**	**J**	4.5	1.2	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorooctanesulfonic acid (PFOS)	**1.7**	**J**	4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorononanesulfonic acid (PFNS)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorododecanesulfonic acid (PFDoS)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		18	4.5	ng/L		03/06/25 09:19	03/06/25 23:25	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		18	4.5	ng/L		03/06/25 09:19	03/06/25 23:25	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		18	4.5	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorooctanesulfonamide (PFOSA)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	1.4	ng/L		03/06/25 09:19	03/06/25 23:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	1.2	ng/L		03/06/25 09:19	03/06/25 23:25	1

Client Sample ID: MW-3
Date Collected: 02/27/25 14:15
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-3
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		45	11	ng/L		03/06/25 09:19	03/06/25 23:25	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		45	11	ng/L		03/06/25 09:19	03/06/25 23:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		18	4.5	ng/L		03/06/25 09:19	03/06/25 23:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		18	4.5	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		9.0	2.3	ng/L		03/06/25 09:19	03/06/25 23:25	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		9.0	2.8	ng/L		03/06/25 09:19	03/06/25 23:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		18	4.5	ng/L		03/06/25 09:19	03/06/25 23:25	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		18	4.5	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		9.0	2.3	ng/L		03/06/25 09:19	03/06/25 23:25	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		23	5.7	ng/L		03/06/25 09:19	03/06/25 23:25	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		110	28	ng/L		03/06/25 09:19	03/06/25 23:25	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		110	34	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluorodecanesulfonic acid (PFDS)	ND		4.5	1.1	ng/L		03/06/25 09:19	03/06/25 23:25	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		9.0	2.3	ng/L		03/06/25 09:19	03/06/25 23:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98.0*		*10 - 130*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C5 PFPeA	*96.6*		*35 - 150*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C5 PFHxA	*91.1*		*55 - 150*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C4 PFHpA	*98.7*		*55 - 150*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C8 PFOA	*88.4*		*60 - 140*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C9 PFNA	*77.9*		*55 - 140*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C6 PFDA	*73.0*		*50 - 140*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C7 PFUnA	*68.5*		*30 - 140*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C2 PFTeDA	*63.3*		*10 - 130*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C3 PFBS	*90.6*		*55 - 150*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C3 PFHxS	*77.9*		*55 - 150*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C8 PFOS	*76.2*		*45 - 140*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C8 PFOSA	*76.3*		*30 - 130*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
d3-NMeFOSAA	*70.3*		*45 - 200*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
d5-NEtFOSAA	*64.0*		*10 - 200*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
M2-4:2 FTS	*85.3*		*60 - 200*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
M2-6:2 FTS	*92.2*		*60 - 200*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
M2-8:2 FTS	*79.7*		*50 - 200*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C3 HFPO-DA	*93.6*		*25 - 160*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
d7-N-MeFOSE-M	*55.3*		*10 - 150*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
d9-N-EtFOSE-M	*30.7*		*10 - 150*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
d5-NEtPFOSA	*49.4*		*10 - 130*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
D3-NMeFOSA	*64.7*		*15 - 130*	*03/06/25 09:19*	*03/06/25 23:25*	*1*
13C2-PFDoDA	*58.0*		*10 - 150*	*03/06/25 09:19*	*03/06/25 23:25*	*1*

Client Sample ID: MW-3
Date Collected: 02/27/25 14:15
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-3
Matrix: Water

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3.1**		0.20	0.060	mg/L		03/03/25 08:07	03/03/25 16:36	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:07	03/03/25 16:36	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:07	03/03/25 16:36	1
Barium	**0.34**		0.0020	0.00070	mg/L		03/03/25 08:07	03/03/25 16:36	1
Beryllium	**0.00030**	**J**	0.0020	0.00030	mg/L		03/03/25 08:07	03/03/25 16:36	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:07	03/03/25 16:36	1
Calcium	**166**		0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:36	1
Chromium	**0.0040**		0.0040	0.0010	mg/L		03/03/25 08:07	03/03/25 16:36	1
Cobalt	**0.011**		0.0040	0.00063	mg/L		03/03/25 08:07	03/03/25 16:36	1
Copper	**0.017**		0.010	0.0016	mg/L		03/03/25 08:07	03/03/25 16:36	1
Iron	**4.5**		0.050	0.019	mg/L		03/03/25 08:07	03/03/25 16:36	1
Lead	**0.021**		0.010	0.0030	mg/L		03/03/25 08:07	03/03/25 16:36	1
Magnesium	**59.7**		0.20	0.043	mg/L		03/03/25 08:07	03/03/25 16:36	1
Manganese	**1.2**		0.0030	0.00040	mg/L		03/03/25 08:07	03/03/25 16:36	1
Nickel	**0.012**		0.010	0.0013	mg/L		03/03/25 08:07	03/03/25 16:36	1
Potassium	**15.7**	**^+ ^2**	0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:36	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:07	03/03/25 16:36	1
Silver	ND		0.0060	0.0017	mg/L		03/03/25 08:07	03/03/25 16:36	1
Sodium	**413**		1.0	0.32	mg/L		03/03/25 08:07	03/03/25 16:36	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:07	03/03/25 16:36	1
Vanadium	**0.0079**		0.0050	0.0015	mg/L		03/03/25 08:07	03/03/25 16:36	1
Zinc	**0.036**		0.010	0.0015	mg/L		03/03/25 08:07	03/03/25 16:36	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/25 08:04	03/03/25 15:54	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:04	03/03/25 15:54	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:04	03/03/25 15:54	1
Barium	**0.31**		0.0020	0.00070	mg/L		03/03/25 08:04	03/03/25 15:54	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/25 08:04	03/04/25 17:05	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:04	03/03/25 15:54	1
Calcium	**124**		0.50	0.10	mg/L		03/03/25 08:04	03/04/25 17:05	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:04	03/03/25 15:54	1
Cobalt	**0.0031**	**J**	0.0040	0.00063	mg/L		03/03/25 08:04	03/03/25 15:54	1
Copper	ND	^5+	0.010	0.0016	mg/L		03/03/25 08:04	03/03/25 15:54	1
Iron	ND	^5-	0.050	0.019	mg/L		03/03/25 08:04	03/03/25 15:54	1
Lead	**0.0034**	**J**	0.010	0.0030	mg/L		03/03/25 08:04	03/03/25 15:54	1
Magnesium	**35.2**		0.20	0.043	mg/L		03/03/25 08:04	03/03/25 15:54	1
Manganese	**0.72**	**B**	0.0030	0.00040	mg/L		03/03/25 08:04	03/03/25 15:54	1
Nickel	**0.0031**	**J**	0.010	0.0013	mg/L		03/03/25 08:04	03/03/25 15:54	1
Potassium	**15.6**		0.50	0.10	mg/L		03/03/25 08:04	03/03/25 15:54	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:04	03/03/25 15:54	1
Silver	ND	^5-	0.0060	0.0017	mg/L		03/03/25 08:04	03/03/25 15:54	1
Sodium	**451**		1.0	0.32	mg/L		03/03/25 08:04	03/03/25 15:54	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:04	03/03/25 15:54	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/25 08:04	03/03/25 15:54	1
Zinc	ND	^5-	0.050	0.0075	mg/L		03/03/25 08:04	03/04/25 17:07	5

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-3
Lab Sample ID: 480-227586-3
Date Collected: 02/27/25 14:15
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/05/25 09:29	03/05/25 13:41	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/04/25 10:22	03/04/25 14:51	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-4
Lab Sample ID: 480-227586-4
Date Collected: 02/27/25 13:30
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/03/25 15:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/03/25 15:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/03/25 15:37	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/03/25 15:37	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/03/25 15:37	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/03/25 15:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/03/25 15:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/03/25 15:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/03/25 15:37	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/03/25 15:37	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/03/25 15:37	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/03/25 15:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/03/25 15:37	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/03/25 15:37	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/03/25 15:37	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/03/25 15:37	1
2-Hexanone	ND		5.0	1.2	ug/L			03/03/25 15:37	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/03/25 15:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/03/25 15:37	1
Acetone	ND		10	3.0	ug/L			03/03/25 15:37	1
Benzene	ND		1.0	0.41	ug/L			03/03/25 15:37	1
Bromoform	ND		1.0	0.26	ug/L			03/03/25 15:37	1
Bromomethane	ND		1.0	0.69	ug/L			03/03/25 15:37	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/03/25 15:37	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/03/25 15:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/03/25 15:37	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/03/25 15:37	1
Chloroethane	ND		1.0	0.32	ug/L			03/03/25 15:37	1
Chloroform	ND		1.0	0.34	ug/L			03/03/25 15:37	1
Chloromethane	ND		1.0	0.35	ug/L			03/03/25 15:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/03/25 15:37	1
Cyclohexane	ND		1.0	0.18	ug/L			03/03/25 15:37	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/03/25 15:37	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/03/25 15:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/03/25 15:37	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/03/25 15:37	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/03/25 15:37	1
Methyl acetate	ND		2.5	1.3	ug/L			03/03/25 15:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/03/25 15:37	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/03/25 15:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/03/25 15:37	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/03/25 15:37	1
Naphthalene	ND		1.0	0.43	ug/L			03/03/25 15:37	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/03/25 15:37	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/03/25 15:37	1
o-Xylene	ND		1.0	0.76	ug/L			03/03/25 15:37	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/03/25 15:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/03/25 15:37	1
Toluene	ND		1.0	0.51	ug/L			03/03/25 15:37	1

Client Sample ID: MW-4
Date Collected: 02/27/25 13:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-4
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/03/25 15:37	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/03/25 15:37	1
Trichloroethene	ND		1.0	0.46	ug/L			03/03/25 15:37	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/03/25 15:37	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/03/25 15:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/03/25 15:37	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/03/25 15:37	1
Styrene	ND		1.0	0.73	ug/L			03/03/25 15:37	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/03/25 15:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/03/25 15:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*03/03/25 15:37*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/03/25 15:37*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*03/03/25 15:37*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*03/03/25 15:37*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.19**	**J B**	0.20	0.10	ug/L		03/03/25 10:06	03/04/25 14:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*03/03/25 10:06*	*03/04/25 14:49*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		03/03/25 13:44	03/06/25 07:31	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/03/25 13:44	03/06/25 07:31	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/06/25 07:31	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/03/25 13:44	03/06/25 07:31	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 07:31	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/03/25 13:44	03/06/25 07:31	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 07:31	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 07:31	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 07:31	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/03/25 13:44	03/06/25 07:31	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/03/25 13:44	03/06/25 07:31	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/03/25 13:44	03/06/25 07:31	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 07:31	1
2-Nitroaniline	ND		10	0.42	ug/L		03/03/25 13:44	03/06/25 07:31	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/06/25 07:31	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 07:31	1
3-Nitroaniline	ND		10	0.48	ug/L		03/03/25 13:44	03/06/25 07:31	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 07:31	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 07:31	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 07:31	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 07:31	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 07:31	1
4-Methylphenol	ND		10	0.36	ug/L		03/03/25 13:44	03/06/25 07:31	1

Client Sample ID: MW-4
Date Collected: 02/27/25 13:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-4
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	0.25	ug/L		03/03/25 13:44	03/06/25 07:31	1
4-Nitrophenol	ND		10	1.5	ug/L		03/03/25 13:44	03/06/25 07:31	1
Acenaphthene	ND		5.0	0.41	ug/L		03/03/25 13:44	03/06/25 07:31	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/03/25 13:44	03/06/25 07:31	1
Acetophenone	ND		5.0	0.54	ug/L		03/03/25 13:44	03/06/25 07:31	1
Anthracene	ND		5.0	0.28	ug/L		03/03/25 13:44	03/06/25 07:31	1
Atrazine	ND		5.0	0.46	ug/L		03/03/25 13:44	03/06/25 07:31	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/03/25 13:44	03/06/25 07:31	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 07:31	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 07:31	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/06/25 07:31	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 07:31	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/03/25 13:44	03/06/25 07:31	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 07:31	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 07:31	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/03/25 13:44	03/06/25 07:31	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/03/25 13:44	03/06/25 07:31	1
Caprolactam	ND		5.0	2.2	ug/L		03/03/25 13:44	03/06/25 07:31	1
Carbazole	ND		5.0	0.30	ug/L		03/03/25 13:44	03/06/25 07:31	1
Chrysene	ND		5.0	0.33	ug/L		03/03/25 13:44	03/06/25 07:31	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		03/03/25 13:44	03/06/25 07:31	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 07:31	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/03/25 13:44	03/06/25 07:31	1
Dibenzofuran	ND		10	0.51	ug/L		03/03/25 13:44	03/06/25 07:31	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/03/25 13:44	03/06/25 07:31	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 07:31	1
Fluoranthene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 07:31	1
Fluorene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 07:31	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 07:31	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/03/25 13:44	03/06/25 07:31	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 07:31	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 07:31	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 07:31	1
Isophorone	ND		5.0	0.43	ug/L		03/03/25 13:44	03/06/25 07:31	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/03/25 13:44	03/06/25 07:31	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 07:31	1
Naphthalene	ND		5.0	0.76	ug/L		03/03/25 13:44	03/06/25 07:31	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/03/25 13:44	03/06/25 07:31	1
Pentachlorophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 07:31	1
Phenanthrene	ND		5.0	0.44	ug/L		03/03/25 13:44	03/06/25 07:31	1
Phenol	ND		5.0	0.39	ug/L		03/03/25 13:44	03/06/25 07:31	1
Pyrene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/06/25 07:31	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*18*	*T J*	*ug/L*		*4.69*	*N/A*	*03/03/25 13:44*	*03/06/25 07:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*25 - 144*	*03/03/25 13:44*	*03/06/25 07:31*	*1*
2-Fluorobiphenyl	*79*		*53 - 126*	*03/03/25 13:44*	*03/06/25 07:31*	*1*
2-Fluorophenol	*47*		*24 - 120*	*03/03/25 13:44*	*03/06/25 07:31*	*1*

Client Sample ID: MW-4
Date Collected: 02/27/25 13:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-4
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*69*		*29 - 129*	*03/03/25 13:44*	*03/06/25 07:31*	*1*
p-Terphenyl-d14	*73*		*33 - 132*	*03/03/25 13:44*	*03/06/25 07:31*	*1*
Phenol-d5	*32*		*10 - 120*	*03/03/25 13:44*	*03/06/25 07:31*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		03/06/25 13:42	03/10/25 13:32	1
4,4'-DDE	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 13:32	1
4,4'-DDT	**0.030**	**J B**	0.050	0.011	ug/L		03/06/25 13:42	03/10/25 13:32	1
Aldrin	ND		0.050	0.0081	ug/L		03/06/25 13:42	03/10/25 13:32	1
alpha-BHC	ND		0.050	0.0077	ug/L		03/06/25 13:42	03/10/25 13:32	1
cis-Chlordane	ND		0.050	0.015	ug/L		03/06/25 13:42	03/10/25 13:32	1
beta-BHC	ND		0.050	0.025	ug/L		03/06/25 13:42	03/10/25 13:32	1
delta-BHC	**0.011**	**J**	0.050	0.010	ug/L		03/06/25 13:42	03/10/25 13:32	1
Dieldrin	ND		0.050	0.0098	ug/L		03/06/25 13:42	03/10/25 13:32	1
Endosulfan I	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 13:32	1
Endosulfan II	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 13:32	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 13:32	1
Endrin	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 13:32	1
Endrin aldehyde	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 13:32	1
Endrin ketone	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 13:32	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		03/06/25 13:42	03/10/25 13:32	1
trans-Chlordane	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 13:32	1
Heptachlor	ND		0.050	0.0085	ug/L		03/06/25 13:42	03/10/25 13:32	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		03/06/25 13:42	03/10/25 13:32	1
Methoxychlor	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 13:32	1
Toxaphene	ND		0.50	0.12	ug/L		03/06/25 13:42	03/10/25 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*81*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:32*	*1*
DCB Decachlorobiphenyl	*83*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:32*	*1*
Tetrachloro-m-xylene	*76*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:32*	*1*
Tetrachloro-m-xylene	*77*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:32*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:16	1
PCB-1221	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:16	1
PCB-1232	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:16	1
PCB-1242	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:16	1
PCB-1248	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:16	1
PCB-1254	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 21:16	1
PCB-1260	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*66*		*10 - 123*	*03/04/25 06:40*	*03/04/25 21:16*	*1*
DCB Decachlorobiphenyl	*70*		*10 - 123*	*03/04/25 06:40*	*03/04/25 21:16*	*1*
Tetrachloro-m-xylene	*70*		*10 - 145*	*03/04/25 06:40*	*03/04/25 21:16*	*1*
Tetrachloro-m-xylene	*76*		*10 - 145*	*03/04/25 06:40*	*03/04/25 21:16*	*1*

Client Sample ID: MW-4
Date Collected: 02/27/25 13:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-4
Matrix: Water

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		03/04/25 09:32	03/05/25 13:08	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		03/04/25 09:32	03/05/25 13:08	1
2,4-D	ND		0.48	0.16	ug/L		03/04/25 09:32	03/05/25 13:08	1
Dichlorprop	ND		0.48	0.11	ug/L		03/04/25 09:32	03/05/25 13:08	1
Pentachlorophenol	ND		0.48	0.047	ug/L		03/04/25 09:32	03/05/25 13:08	1
Picloram	ND		0.48	0.069	ug/L		03/04/25 09:32	03/05/25 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*21 - 143*	*03/04/25 09:32*	*03/05/25 13:08*	*1*
2,4-Dichlorophenylacetic acid	*73*		*21 - 143*	*03/04/25 09:32*	*03/05/25 13:08*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**15**		7.0	1.9	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluoropentanoic acid (PFPeA)	**14**		3.5	0.88	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorohexanoic acid (PFHxA)	**6.3**		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluoroheptanoic acid (PFHpA)	**1.5**	**J**	1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorooctanoic acid (PFOA)	**5.4**		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorobutanesulfonic acid (PFBS)	**2.4**		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorohexanesulfonic acid (PFHxS)	**1.9**		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorooctanesulfonic acid (PFOS)	**1.2**	**J**	1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/07/25 00:15	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/07/25 00:15	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.55	ng/L		03/06/25 09:19	03/07/25 00:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.46	ng/L		03/06/25 09:19	03/07/25 00:15	1

Client Sample ID: MW-4
Date Collected: 02/27/25 13:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-4
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.4	ng/L		03/06/25 09:19	03/07/25 00:15	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.4	ng/L		03/06/25 09:19	03/07/25 00:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/07/25 00:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.5	0.88	ng/L		03/06/25 09:19	03/07/25 00:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.5	1.1	ng/L		03/06/25 09:19	03/07/25 00:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/07/25 00:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		7.0	1.8	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.5	0.88	ng/L		03/06/25 09:19	03/07/25 00:15	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.8	2.2	ng/L		03/06/25 09:19	03/07/25 00:15	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		44	11	ng/L		03/06/25 09:19	03/07/25 00:15	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		44	13	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.44	ng/L		03/06/25 09:19	03/07/25 00:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.5	0.88	ng/L		03/06/25 09:19	03/07/25 00:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*100*		*10 - 130*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C5 PFPeA	*97.0*		*35 - 150*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C5 PFHxA	*94.0*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C4 PFHpA	*101*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C8 PFOA	*86.9*		*60 - 140*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C9 PFNA	*78.8*		*55 - 140*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C6 PFDA	*75.5*		*50 - 140*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C7 PFUnA	*70.0*		*30 - 140*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C2 PFTeDA	*61.6*		*10 - 130*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C3 PFBS	*94.3*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C3 PFHxS	*82.2*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C8 PFOS	*80.4*		*45 - 140*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C8 PFOSA	*81.0*		*30 - 130*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
d3-NMeFOSAA	*72.8*		*45 - 200*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
d5-NEtFOSAA	*67.6*		*10 - 200*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
M2-4:2 FTS	*99.4*		*60 - 200*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
M2-6:2 FTS	*89.1*		*60 - 200*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
M2-8:2 FTS	*75.6*		*50 - 200*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C3 HFPO-DA	*94.1*		*25 - 160*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
d7-N-MeFOSE-M	*50.5*		*10 - 150*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
d9-N-EtFOSE-M	*41.4*		*10 - 150*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
d5-NEtPFOSA	*56.5*		*10 - 130*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
D3-NMeFOSA	*72.6*		*15 - 130*	*03/06/25 09:19*	*03/07/25 00:15*	*1*
13C2-PFDoDA	*60.5*		*10 - 150*	*03/06/25 09:19*	*03/07/25 00:15*	*1*

Client Sample ID: MW-4
Date Collected: 02/27/25 13:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-4
Matrix: Water

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.22**		0.20	0.060	mg/L		03/03/25 08:07	03/03/25 16:38	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:07	03/03/25 16:38	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:07	03/03/25 16:38	1
Barium	**0.13**		0.0020	0.00070	mg/L		03/03/25 08:07	03/03/25 16:38	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/25 08:07	03/03/25 16:38	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:07	03/03/25 16:38	1
Calcium	**157**		0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:38	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:07	03/03/25 16:38	1
Cobalt	**0.0029**	**J**	0.0040	0.00063	mg/L		03/03/25 08:07	03/03/25 16:38	1
Copper	**0.0026**	**J**	0.010	0.0016	mg/L		03/03/25 08:07	03/03/25 16:38	1
Iron	**0.30**		0.050	0.019	mg/L		03/03/25 08:07	03/03/25 16:38	1
Lead	ND		0.010	0.0030	mg/L		03/03/25 08:07	03/03/25 16:38	1
Magnesium	**44.6**		0.20	0.043	mg/L		03/03/25 08:07	03/03/25 16:38	1
Manganese	**0.54**		0.0030	0.00040	mg/L		03/03/25 08:07	03/03/25 16:38	1
Nickel	**0.0033**	**J**	0.010	0.0013	mg/L		03/03/25 08:07	03/03/25 16:38	1
Potassium	**42.6**	**^+ ^2**	0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:38	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:07	03/03/25 16:38	1
Silver	ND		0.0060	0.0017	mg/L		03/03/25 08:07	03/03/25 16:38	1
Sodium	**450**		1.0	0.32	mg/L		03/03/25 08:07	03/03/25 16:38	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:07	03/03/25 16:38	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/25 08:07	03/03/25 16:38	1
Zinc	ND		0.050	0.0075	mg/L		03/03/25 08:07	03/04/25 16:06	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/25 08:04	03/03/25 15:56	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:04	03/03/25 15:56	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:04	03/03/25 15:56	1
Barium	**0.13**		0.0020	0.00070	mg/L		03/03/25 08:04	03/03/25 15:56	1
Beryllium	ND	^5-	0.0020	0.00030	mg/L		03/03/25 08:04	03/03/25 15:56	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:04	03/03/25 15:56	1
Calcium	**156**		0.50	0.10	mg/L		03/03/25 08:04	03/04/25 17:09	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:04	03/03/25 15:56	1
Cobalt	**0.0027**	**J**	0.0040	0.00063	mg/L		03/03/25 08:04	03/03/25 15:56	1
Copper	ND	^5+	0.010	0.0016	mg/L		03/03/25 08:04	03/03/25 15:56	1
Iron	ND	^5-	0.050	0.019	mg/L		03/03/25 08:04	03/03/25 15:56	1
Lead	**0.0032**	**J**	0.010	0.0030	mg/L		03/03/25 08:04	03/03/25 15:56	1
Magnesium	**44.0**		0.20	0.043	mg/L		03/03/25 08:04	03/03/25 15:56	1
Manganese	**0.52**	**B**	0.0030	0.00040	mg/L		03/03/25 08:04	03/03/25 15:56	1
Nickel	**0.0024**	**J**	0.010	0.0013	mg/L		03/03/25 08:04	03/03/25 15:56	1
Potassium	**41.8**		0.50	0.10	mg/L		03/03/25 08:04	03/03/25 15:56	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:04	03/03/25 15:56	1
Silver	ND	^5-	0.0060	0.0017	mg/L		03/03/25 08:04	03/03/25 15:56	1
Sodium	**452**		1.0	0.32	mg/L		03/03/25 08:04	03/03/25 15:56	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:04	03/03/25 15:56	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/25 08:04	03/03/25 15:56	1
Zinc	**0.0094**	**J ^5- B**	0.010	0.0015	mg/L		03/03/25 08:04	03/04/25 17:09	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-4
Lab Sample ID: 480-227586-4
Date Collected: 02/27/25 13:30
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/05/25 09:29	03/05/25 13:43	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/04/25 10:22	03/04/25 14:53	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-5
Lab Sample ID: 480-227586-5
Date Collected: 02/27/25 15:00
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/03/25 16:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/03/25 16:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/03/25 16:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/03/25 16:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/03/25 16:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/03/25 16:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/03/25 16:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/03/25 16:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/03/25 16:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/03/25 16:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/03/25 16:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/03/25 16:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/03/25 16:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/03/25 16:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/03/25 16:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/03/25 16:02	1
2-Hexanone	ND		5.0	1.2	ug/L			03/03/25 16:02	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/03/25 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/03/25 16:02	1
Acetone	ND		10	3.0	ug/L			03/03/25 16:02	1
Benzene	ND		1.0	0.41	ug/L			03/03/25 16:02	1
Bromoform	ND		1.0	0.26	ug/L			03/03/25 16:02	1
Bromomethane	ND		1.0	0.69	ug/L			03/03/25 16:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/03/25 16:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/03/25 16:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/03/25 16:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/03/25 16:02	1
Chloroethane	ND		1.0	0.32	ug/L			03/03/25 16:02	1
Chloroform	ND		1.0	0.34	ug/L			03/03/25 16:02	1
Chloromethane	ND		1.0	0.35	ug/L			03/03/25 16:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/03/25 16:02	1
Cyclohexane	ND		1.0	0.18	ug/L			03/03/25 16:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/03/25 16:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/03/25 16:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/03/25 16:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/03/25 16:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/03/25 16:02	1
Methyl acetate	ND		2.5	1.3	ug/L			03/03/25 16:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/03/25 16:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/03/25 16:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/03/25 16:02	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/03/25 16:02	1
Naphthalene	ND		1.0	0.43	ug/L			03/03/25 16:02	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/03/25 16:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/03/25 16:02	1
o-Xylene	ND		1.0	0.76	ug/L			03/03/25 16:02	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/03/25 16:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/03/25 16:02	1
Toluene	ND		1.0	0.51	ug/L			03/03/25 16:02	1

Client Sample ID: MW-5
Date Collected: 02/27/25 15:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-5
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/03/25 16:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/03/25 16:02	1
Trichloroethene	ND		1.0	0.46	ug/L			03/03/25 16:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/03/25 16:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/03/25 16:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/03/25 16:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/03/25 16:02	1
Styrene	ND		1.0	0.73	ug/L			03/03/25 16:02	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/03/25 16:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/03/25 16:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*03/03/25 16:02*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*03/03/25 16:02*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/03/25 16:02*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*03/03/25 16:02*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.27**	**B**	0.20	0.10	ug/L		03/06/25 06:41	03/06/25 17:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*15 - 110*	*03/06/25 06:41*	*03/06/25 17:44*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		03/03/25 13:44	03/06/25 07:58	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/03/25 13:44	03/06/25 07:58	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/06/25 07:58	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/03/25 13:44	03/06/25 07:58	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 07:58	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/03/25 13:44	03/06/25 07:58	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 07:58	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 07:58	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 07:58	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/03/25 13:44	03/06/25 07:58	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/03/25 13:44	03/06/25 07:58	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/03/25 13:44	03/06/25 07:58	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 07:58	1
2-Nitroaniline	ND		10	0.42	ug/L		03/03/25 13:44	03/06/25 07:58	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/06/25 07:58	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 07:58	1
3-Nitroaniline	ND		10	0.48	ug/L		03/03/25 13:44	03/06/25 07:58	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 07:58	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 07:58	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 07:58	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 07:58	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 07:58	1
4-Methylphenol	ND		10	0.36	ug/L		03/03/25 13:44	03/06/25 07:58	1

Client Sample ID: MW-5
Date Collected: 02/27/25 15:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-5
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	0.25	ug/L		03/03/25 13:44	03/06/25 07:58	1
4-Nitrophenol	ND		10	1.5	ug/L		03/03/25 13:44	03/06/25 07:58	1
Acenaphthene	ND		5.0	0.41	ug/L		03/03/25 13:44	03/06/25 07:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/03/25 13:44	03/06/25 07:58	1
Acetophenone	ND		5.0	0.54	ug/L		03/03/25 13:44	03/06/25 07:58	1
Anthracene	ND		5.0	0.28	ug/L		03/03/25 13:44	03/06/25 07:58	1
Atrazine	ND		5.0	0.46	ug/L		03/03/25 13:44	03/06/25 07:58	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/03/25 13:44	03/06/25 07:58	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 07:58	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 07:58	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/06/25 07:58	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 07:58	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/03/25 13:44	03/06/25 07:58	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 07:58	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 07:58	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/03/25 13:44	03/06/25 07:58	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/03/25 13:44	03/06/25 07:58	1
Caprolactam	ND		5.0	2.2	ug/L		03/03/25 13:44	03/06/25 07:58	1
Carbazole	ND		5.0	0.30	ug/L		03/03/25 13:44	03/06/25 07:58	1
Chrysene	ND		5.0	0.33	ug/L		03/03/25 13:44	03/06/25 07:58	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		03/03/25 13:44	03/06/25 07:58	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 07:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/03/25 13:44	03/06/25 07:58	1
Dibenzofuran	ND		10	0.51	ug/L		03/03/25 13:44	03/06/25 07:58	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/03/25 13:44	03/06/25 07:58	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 07:58	1
Fluoranthene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 07:58	1
Fluorene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 07:58	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 07:58	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/03/25 13:44	03/06/25 07:58	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 07:58	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 07:58	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 07:58	1
Isophorone	ND		5.0	0.43	ug/L		03/03/25 13:44	03/06/25 07:58	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/03/25 13:44	03/06/25 07:58	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 07:58	1
Naphthalene	ND		5.0	0.76	ug/L		03/03/25 13:44	03/06/25 07:58	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/03/25 13:44	03/06/25 07:58	1
Pentachlorophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 07:58	1
Phenanthrene	ND		5.0	0.44	ug/L		03/03/25 13:44	03/06/25 07:58	1
Phenol	ND		5.0	0.39	ug/L		03/03/25 13:44	03/06/25 07:58	1
Pyrene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/06/25 07:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*19*	*T J*	*ug/L*		*4.69*	*N/A*	*03/03/25 13:44*	*03/06/25 07:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*25 - 144*	*03/03/25 13:44*	*03/06/25 07:58*	*1*
2-Fluorobiphenyl	*85*		*53 - 126*	*03/03/25 13:44*	*03/06/25 07:58*	*1*
2-Fluorophenol	*52*		*24 - 120*	*03/03/25 13:44*	*03/06/25 07:58*	*1*

Client Sample ID: MW-5
Date Collected: 02/27/25 15:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-5
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*73*		*29 - 129*	*03/03/25 13:44*	*03/06/25 07:58*	*1*
p-Terphenyl-d14	*80*		*33 - 132*	*03/03/25 13:44*	*03/06/25 07:58*	*1*
Phenol-d5	*36*		*10 - 120*	*03/03/25 13:44*	*03/06/25 07:58*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		03/06/25 13:42	03/10/25 13:51	1
4,4'-DDE	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 13:51	1
4,4'-DDT	**0.031**	**J B**	0.050	0.011	ug/L		03/06/25 13:42	03/10/25 13:51	1
Aldrin	ND		0.050	0.0081	ug/L		03/06/25 13:42	03/10/25 13:51	1
alpha-BHC	ND		0.050	0.0077	ug/L		03/06/25 13:42	03/10/25 13:51	1
cis-Chlordane	ND		0.050	0.015	ug/L		03/06/25 13:42	03/10/25 13:51	1
beta-BHC	ND		0.050	0.025	ug/L		03/06/25 13:42	03/10/25 13:51	1
delta-BHC	ND		0.050	0.010	ug/L		03/06/25 13:42	03/10/25 13:51	1
Dieldrin	ND		0.050	0.0098	ug/L		03/06/25 13:42	03/10/25 13:51	1
Endosulfan I	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 13:51	1
Endosulfan II	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 13:51	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 13:51	1
Endrin	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 13:51	1
Endrin aldehyde	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 13:51	1
Endrin ketone	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 13:51	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		03/06/25 13:42	03/10/25 13:51	1
trans-Chlordane	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 13:51	1
Heptachlor	ND		0.050	0.0085	ug/L		03/06/25 13:42	03/10/25 13:51	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		03/06/25 13:42	03/10/25 13:51	1
Methoxychlor	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 13:51	1
Toxaphene	ND		0.50	0.12	ug/L		03/06/25 13:42	03/10/25 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*55*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:51*	*1*
DCB Decachlorobiphenyl	*40*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:51*	*1*
Tetrachloro-m-xylene	*59*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:51*	*1*
Tetrachloro-m-xylene	*69*		*10 - 120*	*03/06/25 13:42*	*03/10/25 13:51*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:35	1
PCB-1221	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:35	1
PCB-1232	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:35	1
PCB-1242	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:35	1
PCB-1248	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:35	1
PCB-1254	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 21:35	1
PCB-1260	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*50*		*10 - 123*	*03/04/25 06:40*	*03/04/25 21:35*	*1*
DCB Decachlorobiphenyl	*54*		*10 - 123*	*03/04/25 06:40*	*03/04/25 21:35*	*1*
Tetrachloro-m-xylene	*69*		*10 - 145*	*03/04/25 06:40*	*03/04/25 21:35*	*1*
Tetrachloro-m-xylene	*74*		*10 - 145*	*03/04/25 06:40*	*03/04/25 21:35*	*1*

Client Sample ID: MW-5
Date Collected: 02/27/25 15:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-5
Matrix: Water

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		03/04/25 09:32	03/05/25 13:27	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		03/04/25 09:32	03/05/25 13:27	1
2,4-D	ND		0.48	0.16	ug/L		03/04/25 09:32	03/05/25 13:27	1
Dichlorprop	ND		0.48	0.11	ug/L		03/04/25 09:32	03/05/25 13:27	1
Pentachlorophenol	ND		0.48	0.047	ug/L		03/04/25 09:32	03/05/25 13:27	1
Picloram	ND		0.48	0.069	ug/L		03/04/25 09:32	03/05/25 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*35*		*21 - 143*	*03/04/25 09:32*	*03/05/25 13:27*	*1*
2,4-Dichlorophenylacetic acid	*35*		*21 - 143*	*03/04/25 09:32*	*03/05/25 13:27*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**10**		7.2	1.9	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluoropentanoic acid (PFPeA)	**10**		3.6	0.90	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorohexanoic acid (PFHxA)	**8.5**		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluoroheptanoic acid (PFHpA)	**1.5**	**J**	1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorooctanoic acid (PFOA)	**3.1**		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorobutanesulfonic acid (PFBS)	**24**		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorohexanesulfonic acid (PFHxS)	**0.51**	**J**	1.8	0.46	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorooctanesulfonic acid (PFOS)	**1.7**	**J**	1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:32	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:32	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.56	ng/L		03/06/25 09:19	03/07/25 00:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.47	ng/L		03/06/25 09:19	03/07/25 00:32	1

Client Sample ID: MW-5
Date Collected: 02/27/25 15:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-5
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.5	ng/L		03/06/25 09:19	03/07/25 00:32	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.5	ng/L		03/06/25 09:19	03/07/25 00:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.6	0.90	ng/L		03/06/25 09:19	03/07/25 00:32	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.6	1.1	ng/L		03/06/25 09:19	03/07/25 00:32	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.6	0.90	ng/L		03/06/25 09:19	03/07/25 00:32	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.0	2.2	ng/L		03/06/25 09:19	03/07/25 00:32	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		45	11	ng/L		03/06/25 09:19	03/07/25 00:32	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		45	13	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:32	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.6	0.90	ng/L		03/06/25 09:19	03/07/25 00:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*102*		*10 - 130*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C5 PFPeA	*98.0*		*35 - 150*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C5 PFHxA	*92.6*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C4 PFHpA	*102*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C8 PFOA	*90.9*		*60 - 140*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C9 PFNA	*87.2*		*55 - 140*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C6 PFDA	*87.6*		*50 - 140*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C7 PFUnA	*83.0*		*30 - 140*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C2 PFTeDA	*72.6*		*10 - 130*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C3 PFBS	*100*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C3 PFHxS	*89.9*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C8 PFOS	*98.2*		*45 - 140*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C8 PFOSA	*83.8*		*30 - 130*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
d3-NMeFOSAA	*84.7*		*45 - 200*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
d5-NEtFOSAA	*77.2*		*10 - 200*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
M2-4:2 FTS	*107*		*60 - 200*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
M2-6:2 FTS	*94.4*		*60 - 200*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
M2-8:2 FTS	*88.1*		*50 - 200*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C3 HFPO-DA	*97.1*		*25 - 160*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
d7-N-MeFOSE-M	*60.7*		*10 - 150*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
d9-N-EtFOSE-M	*35.6*		*10 - 150*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
d5-NEtPFOSA	*50.9*		*10 - 130*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
D3-NMeFOSA	*67.8*		*15 - 130*	*03/06/25 09:19*	*03/07/25 00:32*	*1*
13C2-PFDoDA	*70.6*		*10 - 150*	*03/06/25 09:19*	*03/07/25 00:32*	*1*

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-5
Date Collected: 02/27/25 15:00
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-5
Matrix: Water

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3.8**		0.20	0.060	mg/L		03/03/25 08:07	03/03/25 16:40	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:07	03/03/25 16:40	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:07	03/03/25 16:40	1
Barium	**0.10**		0.0020	0.00070	mg/L		03/03/25 08:07	03/03/25 16:40	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/25 08:07	03/03/25 16:40	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:07	03/03/25 16:40	1
Calcium	**148**		0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:40	1
Chromium	**0.0051**		0.0040	0.0010	mg/L		03/03/25 08:07	03/03/25 16:40	1
Cobalt	**0.0037**	**J**	0.0040	0.00063	mg/L		03/03/25 08:07	03/03/25 16:40	1
Copper	**0.019**		0.010	0.0016	mg/L		03/03/25 08:07	03/03/25 16:40	1
Iron	**4.6**		0.050	0.019	mg/L		03/03/25 08:07	03/03/25 16:40	1
Lead	**0.036**		0.010	0.0030	mg/L		03/03/25 08:07	03/03/25 16:40	1
Magnesium	**34.6**		0.20	0.043	mg/L		03/03/25 08:07	03/03/25 16:40	1
Manganese	**0.26**		0.0030	0.00040	mg/L		03/03/25 08:07	03/03/25 16:40	1
Nickel	**0.0066**	**J**	0.010	0.0013	mg/L		03/03/25 08:07	03/03/25 16:40	1
Potassium	**6.2**	**^+**	0.50	0.10	mg/L		03/03/25 08:07	03/04/25 16:16	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:07	03/03/25 16:40	1
Silver	ND		0.0060	0.0017	mg/L		03/03/25 08:07	03/03/25 16:40	1
Sodium	**72.5**		1.0	0.32	mg/L		03/03/25 08:07	03/03/25 16:40	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:07	03/03/25 16:40	1
Vanadium	**0.010**		0.0050	0.0015	mg/L		03/03/25 08:07	03/03/25 16:40	1
Zinc	**0.10**		0.010	0.0015	mg/L		03/03/25 08:07	03/03/25 16:40	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/25 08:04	03/03/25 15:58	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:04	03/03/25 15:58	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:04	03/03/25 15:58	1
Barium	**0.065**		0.0020	0.00070	mg/L		03/03/25 08:04	03/03/25 15:58	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/25 08:04	03/04/25 17:11	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:04	03/03/25 15:58	1
Calcium	**122**		0.50	0.10	mg/L		03/03/25 08:04	03/04/25 17:11	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:04	03/03/25 15:58	1
Cobalt	**0.0013**	**J**	0.0040	0.00063	mg/L		03/03/25 08:04	03/03/25 15:58	1
Copper	**0.0033**	**J ^5+**	0.010	0.0016	mg/L		03/03/25 08:04	03/03/25 15:58	1
Iron	**0.029**	**J ^5-**	0.050	0.019	mg/L		03/03/25 08:04	03/03/25 15:58	1
Lead	**0.0039**	**J**	0.010	0.0030	mg/L		03/03/25 08:04	03/03/25 15:58	1
Magnesium	**21.5**		0.20	0.043	mg/L		03/03/25 08:04	03/03/25 15:58	1
Manganese	**0.10**	**B**	0.0030	0.00040	mg/L		03/03/25 08:04	03/03/25 15:58	1
Nickel	**0.0020**	**J**	0.010	0.0013	mg/L		03/03/25 08:04	03/03/25 15:58	1
Potassium	**5.3**		0.50	0.10	mg/L		03/03/25 08:04	03/03/25 15:58	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:04	03/03/25 15:58	1
Silver	ND	^5-	0.0060	0.0017	mg/L		03/03/25 08:04	03/04/25 17:11	1
Sodium	**75.5**		1.0	0.32	mg/L		03/03/25 08:04	03/03/25 15:58	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:04	03/03/25 15:58	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/25 08:04	03/03/25 15:58	1
Zinc	**0.020**	**^5- B**	0.010	0.0015	mg/L		03/03/25 08:04	03/03/25 15:58	1

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-5
Lab Sample ID: 480-227586-5

Date Collected: 02/27/25 15:00
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000045**	**J**	0.00020	0.000042	mg/L		03/05/25 09:29	03/05/25 13:44	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/04/25 10:22	03/04/25 14:54	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-6
Lab Sample ID: 480-227586-6
Date Collected: 02/27/25 15:30
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/03/25 16:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/03/25 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/03/25 16:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/03/25 16:26	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/03/25 16:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/03/25 16:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/03/25 16:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/03/25 16:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/03/25 16:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/03/25 16:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/03/25 16:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/03/25 16:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/03/25 16:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/03/25 16:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/03/25 16:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/03/25 16:26	1
2-Hexanone	ND		5.0	1.2	ug/L			03/03/25 16:26	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/03/25 16:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/03/25 16:26	1
Acetone	ND		10	3.0	ug/L			03/03/25 16:26	1
Benzene	ND		1.0	0.41	ug/L			03/03/25 16:26	1
Bromoform	ND		1.0	0.26	ug/L			03/03/25 16:26	1
Bromomethane	ND		1.0	0.69	ug/L			03/03/25 16:26	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/03/25 16:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/03/25 16:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/03/25 16:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/03/25 16:26	1
Chloroethane	ND		1.0	0.32	ug/L			03/03/25 16:26	1
Chloroform	ND		1.0	0.34	ug/L			03/03/25 16:26	1
Chloromethane	ND		1.0	0.35	ug/L			03/03/25 16:26	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/03/25 16:26	1
Cyclohexane	ND		1.0	0.18	ug/L			03/03/25 16:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/03/25 16:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/03/25 16:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/03/25 16:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/03/25 16:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/03/25 16:26	1
Methyl acetate	ND		2.5	1.3	ug/L			03/03/25 16:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/03/25 16:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/03/25 16:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/03/25 16:26	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/03/25 16:26	1
Naphthalene	ND		1.0	0.43	ug/L			03/03/25 16:26	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/03/25 16:26	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/03/25 16:26	1
o-Xylene	ND		1.0	0.76	ug/L			03/03/25 16:26	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/03/25 16:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/03/25 16:26	1
Toluene	ND		1.0	0.51	ug/L			03/03/25 16:26	1

Client Sample ID: MW-6
Date Collected: 02/27/25 15:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-6
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/03/25 16:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/03/25 16:26	1
Trichloroethene	ND		1.0	0.46	ug/L			03/03/25 16:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/03/25 16:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/03/25 16:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/03/25 16:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/03/25 16:26	1
Styrene	ND		1.0	0.73	ug/L			03/03/25 16:26	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/03/25 16:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/03/25 16:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*03/03/25 16:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/03/25 16:26*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/03/25 16:26*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*03/03/25 16:26*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.16**	**J B**	0.20	0.10	ug/L		03/06/25 06:41	03/06/25 18:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*15 - 110*	*03/06/25 06:41*	*03/06/25 18:04*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		03/03/25 13:44	03/06/25 08:25	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/03/25 13:44	03/06/25 08:25	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/06/25 08:25	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/03/25 13:44	03/06/25 08:25	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 08:25	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/03/25 13:44	03/06/25 08:25	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 08:25	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 08:25	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 08:25	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/03/25 13:44	03/06/25 08:25	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/03/25 13:44	03/06/25 08:25	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/03/25 13:44	03/06/25 08:25	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 08:25	1
2-Nitroaniline	ND		10	0.42	ug/L		03/03/25 13:44	03/06/25 08:25	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/06/25 08:25	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 08:25	1
3-Nitroaniline	ND		10	0.48	ug/L		03/03/25 13:44	03/06/25 08:25	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 08:25	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 08:25	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 08:25	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 08:25	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 08:25	1
4-Methylphenol	ND		10	0.36	ug/L		03/03/25 13:44	03/06/25 08:25	1

Client Sample ID: MW-6
Date Collected: 02/27/25 15:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-6
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	0.25	ug/L		03/03/25 13:44	03/06/25 08:25	1
4-Nitrophenol	ND		10	1.5	ug/L		03/03/25 13:44	03/06/25 08:25	1
Acenaphthene	ND		5.0	0.41	ug/L		03/03/25 13:44	03/06/25 08:25	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/03/25 13:44	03/06/25 08:25	1
Acetophenone	**0.55**	**J**	5.0	0.54	ug/L		03/03/25 13:44	03/06/25 08:25	1
Anthracene	ND		5.0	0.28	ug/L		03/03/25 13:44	03/06/25 08:25	1
Atrazine	ND		5.0	0.46	ug/L		03/03/25 13:44	03/06/25 08:25	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/03/25 13:44	03/06/25 08:25	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 08:25	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 08:25	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/06/25 08:25	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 08:25	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/03/25 13:44	03/06/25 08:25	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 08:25	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 08:25	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/03/25 13:44	03/06/25 08:25	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/03/25 13:44	03/06/25 08:25	1
Caprolactam	ND		5.0	2.2	ug/L		03/03/25 13:44	03/06/25 08:25	1
Carbazole	ND		5.0	0.30	ug/L		03/03/25 13:44	03/06/25 08:25	1
Chrysene	ND		5.0	0.33	ug/L		03/03/25 13:44	03/06/25 08:25	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		03/03/25 13:44	03/06/25 08:25	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 08:25	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/03/25 13:44	03/06/25 08:25	1
Dibenzofuran	ND		10	0.51	ug/L		03/03/25 13:44	03/06/25 08:25	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/03/25 13:44	03/06/25 08:25	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 08:25	1
Fluoranthene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 08:25	1
Fluorene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 08:25	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 08:25	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/03/25 13:44	03/06/25 08:25	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 08:25	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 08:25	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 08:25	1
Isophorone	ND		5.0	0.43	ug/L		03/03/25 13:44	03/06/25 08:25	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/03/25 13:44	03/06/25 08:25	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 08:25	1
Naphthalene	ND		5.0	0.76	ug/L		03/03/25 13:44	03/06/25 08:25	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/03/25 13:44	03/06/25 08:25	1
Pentachlorophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 08:25	1
Phenanthrene	ND		5.0	0.44	ug/L		03/03/25 13:44	03/06/25 08:25	1
Phenol	ND		5.0	0.39	ug/L		03/03/25 13:44	03/06/25 08:25	1
Pyrene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/06/25 08:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*18*	*T J*	*ug/L*		*4.69*	*N/A*	*03/03/25 13:44*	*03/06/25 08:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*25 - 144*	*03/03/25 13:44*	*03/06/25 08:25*	*1*
2-Fluorobiphenyl	*78*		*53 - 126*	*03/03/25 13:44*	*03/06/25 08:25*	*1*
2-Fluorophenol	*46*		*24 - 120*	*03/03/25 13:44*	*03/06/25 08:25*	*1*

Client Sample ID: MW-6
Date Collected: 02/27/25 15:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-6
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*66*		*29 - 129*	*03/03/25 13:44*	*03/06/25 08:25*	*1*
p-Terphenyl-d14	*77*		*33 - 132*	*03/03/25 13:44*	*03/06/25 08:25*	*1*
Phenol-d5	*32*		*10 - 120*	*03/03/25 13:44*	*03/06/25 08:25*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		03/06/25 13:42	03/10/25 14:11	1
4,4'-DDE	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 14:11	1
4,4'-DDT	**0.030**	**J B**	0.050	0.011	ug/L		03/06/25 13:42	03/10/25 14:11	1
Aldrin	ND		0.050	0.0081	ug/L		03/06/25 13:42	03/10/25 14:11	1
alpha-BHC	ND		0.050	0.0077	ug/L		03/06/25 13:42	03/10/25 14:11	1
cis-Chlordane	ND		0.050	0.015	ug/L		03/06/25 13:42	03/10/25 14:11	1
beta-BHC	ND		0.050	0.025	ug/L		03/06/25 13:42	03/10/25 14:11	1
delta-BHC	ND		0.050	0.010	ug/L		03/06/25 13:42	03/10/25 14:11	1
Dieldrin	ND		0.050	0.0098	ug/L		03/06/25 13:42	03/10/25 14:11	1
Endosulfan I	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 14:11	1
Endosulfan II	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 14:11	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 14:11	1
Endrin	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 14:11	1
Endrin aldehyde	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 14:11	1
Endrin ketone	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 14:11	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		03/06/25 13:42	03/10/25 14:11	1
trans-Chlordane	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 14:11	1
Heptachlor	ND		0.050	0.0085	ug/L		03/06/25 13:42	03/10/25 14:11	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		03/06/25 13:42	03/10/25 14:11	1
Methoxychlor	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 14:11	1
Toxaphene	ND		0.50	0.12	ug/L		03/06/25 13:42	03/10/25 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*70*		*10 - 120*	*03/06/25 13:42*	*03/10/25 14:11*	*1*
DCB Decachlorobiphenyl	*59*		*10 - 120*	*03/06/25 13:42*	*03/10/25 14:11*	*1*
Tetrachloro-m-xylene	*75*		*10 - 120*	*03/06/25 13:42*	*03/10/25 14:11*	*1*
Tetrachloro-m-xylene	*78*		*10 - 120*	*03/06/25 13:42*	*03/10/25 14:11*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:53	1
PCB-1221	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:53	1
PCB-1232	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:53	1
PCB-1242	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:53	1
PCB-1248	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 21:53	1
PCB-1254	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 21:53	1
PCB-1260	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*56*		*10 - 123*	*03/04/25 06:40*	*03/04/25 21:53*	*1*
DCB Decachlorobiphenyl	*64*		*10 - 123*	*03/04/25 06:40*	*03/04/25 21:53*	*1*
Tetrachloro-m-xylene	*70*		*10 - 145*	*03/04/25 06:40*	*03/04/25 21:53*	*1*
Tetrachloro-m-xylene	*77*		*10 - 145*	*03/04/25 06:40*	*03/04/25 21:53*	*1*

Client Sample ID: MW-6
Date Collected: 02/27/25 15:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-6
Matrix: Water

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		03/04/25 09:32	03/05/25 13:45	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		03/04/25 09:32	03/05/25 13:45	1
2,4-D	ND		0.48	0.16	ug/L		03/04/25 09:32	03/05/25 13:45	1
Dichlorprop	ND		0.48	0.11	ug/L		03/04/25 09:32	03/05/25 13:45	1
Pentachlorophenol	ND		0.48	0.047	ug/L		03/04/25 09:32	03/05/25 13:45	1
Picloram	ND		0.48	0.069	ug/L		03/04/25 09:32	03/05/25 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*80*		*21 - 143*	*03/04/25 09:32*	*03/05/25 13:45*	*1*
2,4-Dichlorophenylacetic acid	*81*		*21 - 143*	*03/04/25 09:32*	*03/05/25 13:45*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**6.4**	**J**	7.2	1.9	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluoropentanoic acid (PFPeA)	**4.4**		3.6	0.89	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorohexanoic acid (PFHxA)	**5.5**		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluoroheptanoic acid (PFHpA)	**3.1**		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorooctanoic acid (PFOA)	**12**		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorobutanesulfonic acid (PFBS)	**2.3**		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorohexanesulfonic acid (PFHxS)	**2.5**		1.8	0.46	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorooctanesulfonic acid (PFOS)	**2.4**	**I**	1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:48	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:48	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.55	ng/L		03/06/25 09:19	03/07/25 00:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.47	ng/L		03/06/25 09:19	03/07/25 00:48	1

Client Sample ID: MW-6
Date Collected: 02/27/25 15:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-6
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.5	ng/L		03/06/25 09:19	03/07/25 00:48	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.5	ng/L		03/06/25 09:19	03/07/25 00:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.6	0.89	ng/L		03/06/25 09:19	03/07/25 00:48	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.6	1.1	ng/L		03/06/25 09:19	03/07/25 00:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.6	0.89	ng/L		03/06/25 09:19	03/07/25 00:48	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.9	2.2	ng/L		03/06/25 09:19	03/07/25 00:48	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		45	11	ng/L		03/06/25 09:19	03/07/25 00:48	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		45	13	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 00:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.6	0.89	ng/L		03/06/25 09:19	03/07/25 00:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*100*		*10 - 130*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C5 PFPeA	*105*		*35 - 150*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C5 PFHxA	*98.6*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C4 PFHpA	*103*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C8 PFOA	*90.3*		*60 - 140*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C9 PFNA	*86.7*		*55 - 140*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C6 PFDA	*81.1*		*50 - 140*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C7 PFUnA	*79.1*		*30 - 140*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C2 PFTeDA	*69.8*		*10 - 130*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C3 PFBS	*100*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C3 PFHxS	*87.7*		*55 - 150*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C8 PFOS	*96.8*		*45 - 140*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C8 PFOSA	*90.7*		*30 - 130*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
d3-NMeFOSAA	*85.4*		*45 - 200*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
d5-NEtFOSAA	*78.2*		*10 - 200*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
M2-4:2 FTS	*112*		*60 - 200*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
M2-6:2 FTS	*96.6*		*60 - 200*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
M2-8:2 FTS	*83.7*		*50 - 200*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C3 HFPO-DA	*102*		*25 - 160*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
d7-N-MeFOSE-M	*51.2*		*10 - 150*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
d9-N-EtFOSE-M	*21.7*		*10 - 150*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
d5-NEtPFOSA	*61.7*		*10 - 130*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
D3-NMeFOSA	*76.8*		*15 - 130*	*03/06/25 09:19*	*03/07/25 00:48*	*1*
13C2-PFDoDA	*72.1*		*10 - 150*	*03/06/25 09:19*	*03/07/25 00:48*	*1*

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-6
Date Collected: 02/27/25 15:30
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-6
Matrix: Water

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.6**		0.20	0.060	mg/L		03/03/25 08:07	03/03/25 16:41	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:07	03/03/25 16:41	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:07	03/03/25 16:41	1
Barium	**0.078**		0.0020	0.00070	mg/L		03/03/25 08:07	03/03/25 16:41	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/25 08:07	03/03/25 16:41	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:07	03/03/25 16:41	1
Calcium	**215**		0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:41	1
Chromium	**0.0024**	**J**	0.0040	0.0010	mg/L		03/03/25 08:07	03/03/25 16:41	1
Cobalt	**0.0015**	**J**	0.0040	0.00063	mg/L		03/03/25 08:07	03/03/25 16:41	1
Copper	**0.0053**	**J**	0.010	0.0016	mg/L		03/03/25 08:07	03/03/25 16:41	1
Iron	**1.8**		0.050	0.019	mg/L		03/03/25 08:07	03/03/25 16:41	1
Lead	**0.0055**	**J**	0.010	0.0030	mg/L		03/03/25 08:07	03/03/25 16:41	1
Magnesium	**38.7**		0.20	0.043	mg/L		03/03/25 08:07	03/03/25 16:41	1
Manganese	**0.27**		0.0030	0.00040	mg/L		03/03/25 08:07	03/03/25 16:41	1
Nickel	**0.0032**	**J**	0.010	0.0013	mg/L		03/03/25 08:07	03/03/25 16:41	1
Potassium	**22.2**	**^+ ^2**	0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:41	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:07	03/03/25 16:41	1
Silver	ND		0.0060	0.0017	mg/L		03/03/25 08:07	03/03/25 16:41	1
Sodium	**106**		1.0	0.32	mg/L		03/03/25 08:07	03/03/25 16:41	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:07	03/03/25 16:41	1
Vanadium	**0.0057**		0.0050	0.0015	mg/L		03/03/25 08:07	03/03/25 16:41	1
Zinc	**0.020**		0.010	0.0015	mg/L		03/03/25 08:07	03/03/25 16:41	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/25 08:04	03/03/25 16:00	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:04	03/03/25 16:00	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:04	03/03/25 16:00	1
Barium	**0.072**		0.0020	0.00070	mg/L		03/03/25 08:04	03/03/25 16:00	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/25 08:04	03/04/25 17:13	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:04	03/03/25 16:00	1
Calcium	**206**		0.50	0.10	mg/L		03/03/25 08:04	03/04/25 17:13	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:04	03/03/25 16:00	1
Cobalt	**0.00074**	**J**	0.0040	0.00063	mg/L		03/03/25 08:04	03/03/25 16:00	1
Copper	**0.0023**	**J ^5+**	0.010	0.0016	mg/L		03/03/25 08:04	03/03/25 16:00	1
Iron	**0.029**	**J ^5-**	0.050	0.019	mg/L		03/03/25 08:04	03/03/25 16:00	1
Lead	ND		0.010	0.0030	mg/L		03/03/25 08:04	03/03/25 16:00	1
Magnesium	**36.2**		0.20	0.043	mg/L		03/03/25 08:04	03/03/25 16:00	1
Manganese	**0.25**	**B**	0.0030	0.00040	mg/L		03/03/25 08:04	03/03/25 16:00	1
Nickel	ND		0.010	0.0013	mg/L		03/03/25 08:04	03/03/25 16:00	1
Potassium	**21.7**		0.50	0.10	mg/L		03/03/25 08:04	03/03/25 16:00	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:04	03/03/25 16:00	1
Silver	ND	^5-	0.0060	0.0017	mg/L		03/03/25 08:04	03/03/25 16:00	1
Sodium	**107**		1.0	0.32	mg/L		03/03/25 08:04	03/03/25 16:00	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:04	03/03/25 16:00	1
Vanadium	**0.0023**	**J**	0.0050	0.0015	mg/L		03/03/25 08:04	03/03/25 16:00	1
Zinc	**0.0023**	**J ^5- B**	0.010	0.0015	mg/L		03/03/25 08:04	03/03/25 16:00	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-6
Lab Sample ID: 480-227586-6
Date Collected: 02/27/25 15:30
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/05/25 09:29	03/05/25 13:45	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/04/25 10:22	03/04/25 14:55	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: BD
Lab Sample ID: 480-227586-7
Date Collected: 02/27/25 13:45
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/03/25 16:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/03/25 16:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/03/25 16:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/03/25 16:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/03/25 16:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/03/25 16:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/03/25 16:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/03/25 16:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/03/25 16:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/03/25 16:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/03/25 16:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/03/25 16:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/03/25 16:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/03/25 16:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/03/25 16:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/03/25 16:51	1
2-Hexanone	ND		5.0	1.2	ug/L			03/03/25 16:51	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/03/25 16:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/03/25 16:51	1
Acetone	ND		10	3.0	ug/L			03/03/25 16:51	1
Benzene	ND		1.0	0.41	ug/L			03/03/25 16:51	1
Bromoform	ND		1.0	0.26	ug/L			03/03/25 16:51	1
Bromomethane	ND		1.0	0.69	ug/L			03/03/25 16:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/03/25 16:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/03/25 16:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/03/25 16:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/03/25 16:51	1
Chloroethane	ND		1.0	0.32	ug/L			03/03/25 16:51	1
Chloroform	ND		1.0	0.34	ug/L			03/03/25 16:51	1
Chloromethane	ND		1.0	0.35	ug/L			03/03/25 16:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/03/25 16:51	1
Cyclohexane	ND		1.0	0.18	ug/L			03/03/25 16:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/03/25 16:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/03/25 16:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/03/25 16:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/03/25 16:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/03/25 16:51	1
Methyl acetate	ND		2.5	1.3	ug/L			03/03/25 16:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/03/25 16:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/03/25 16:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/03/25 16:51	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/03/25 16:51	1
Naphthalene	ND		1.0	0.43	ug/L			03/03/25 16:51	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/03/25 16:51	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/03/25 16:51	1
o-Xylene	ND		1.0	0.76	ug/L			03/03/25 16:51	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/03/25 16:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/03/25 16:51	1
Toluene	ND		1.0	0.51	ug/L			03/03/25 16:51	1

Client Sample ID: BD
Date Collected: 02/27/25 13:45
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-7
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/03/25 16:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/03/25 16:51	1
Trichloroethene	ND		1.0	0.46	ug/L			03/03/25 16:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/03/25 16:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/03/25 16:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/03/25 16:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/03/25 16:51	1
Styrene	ND		1.0	0.73	ug/L			03/03/25 16:51	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/03/25 16:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/03/25 16:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*03/03/25 16:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*03/03/25 16:51*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/03/25 16:51*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/03/25 16:51*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.29**	**B**	0.20	0.10	ug/L		03/06/25 06:41	03/06/25 18:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*15 - 110*	*03/06/25 06:41*	*03/06/25 18:25*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		03/03/25 13:44	03/06/25 08:51	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/03/25 13:44	03/06/25 08:51	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/06/25 08:51	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/03/25 13:44	03/06/25 08:51	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 08:51	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/03/25 13:44	03/06/25 08:51	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 08:51	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 08:51	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 08:51	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/03/25 13:44	03/06/25 08:51	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/03/25 13:44	03/06/25 08:51	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/03/25 13:44	03/06/25 08:51	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 08:51	1
2-Nitroaniline	ND		10	0.42	ug/L		03/03/25 13:44	03/06/25 08:51	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/06/25 08:51	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 08:51	1
3-Nitroaniline	ND		10	0.48	ug/L		03/03/25 13:44	03/06/25 08:51	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 08:51	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 08:51	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/03/25 13:44	03/06/25 08:51	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 08:51	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 08:51	1
4-Methylphenol	ND		10	0.36	ug/L		03/03/25 13:44	03/06/25 08:51	1

Client Sample ID: BD
Lab Sample ID: 480-227586-7
Date Collected: 02/27/25 13:45
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	0.25	ug/L		03/03/25 13:44	03/06/25 08:51	1
4-Nitrophenol	ND		10	1.5	ug/L		03/03/25 13:44	03/06/25 08:51	1
Acenaphthene	ND		5.0	0.41	ug/L		03/03/25 13:44	03/06/25 08:51	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/03/25 13:44	03/06/25 08:51	1
Acetophenone	ND		5.0	0.54	ug/L		03/03/25 13:44	03/06/25 08:51	1
Anthracene	ND		5.0	0.28	ug/L		03/03/25 13:44	03/06/25 08:51	1
Atrazine	ND		5.0	0.46	ug/L		03/03/25 13:44	03/06/25 08:51	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/03/25 13:44	03/06/25 08:51	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 08:51	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 08:51	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/06/25 08:51	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 08:51	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/03/25 13:44	03/06/25 08:51	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/03/25 13:44	03/06/25 08:51	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 08:51	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/03/25 13:44	03/06/25 08:51	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/03/25 13:44	03/06/25 08:51	1
Caprolactam	ND		5.0	2.2	ug/L		03/03/25 13:44	03/06/25 08:51	1
Carbazole	ND		5.0	0.30	ug/L		03/03/25 13:44	03/06/25 08:51	1
Chrysene	ND		5.0	0.33	ug/L		03/03/25 13:44	03/06/25 08:51	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		03/03/25 13:44	03/06/25 08:51	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 08:51	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/03/25 13:44	03/06/25 08:51	1
Dibenzofuran	ND		10	0.51	ug/L		03/03/25 13:44	03/06/25 08:51	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/03/25 13:44	03/06/25 08:51	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 08:51	1
Fluoranthene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/06/25 08:51	1
Fluorene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/06/25 08:51	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 08:51	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/03/25 13:44	03/06/25 08:51	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 08:51	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/03/25 13:44	03/06/25 08:51	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/06/25 08:51	1
Isophorone	ND		5.0	0.43	ug/L		03/03/25 13:44	03/06/25 08:51	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/03/25 13:44	03/06/25 08:51	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/03/25 13:44	03/06/25 08:51	1
Naphthalene	ND		5.0	0.76	ug/L		03/03/25 13:44	03/06/25 08:51	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/03/25 13:44	03/06/25 08:51	1
Pentachlorophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/06/25 08:51	1
Phenanthrene	ND		5.0	0.44	ug/L		03/03/25 13:44	03/06/25 08:51	1
Phenol	ND		5.0	0.39	ug/L		03/03/25 13:44	03/06/25 08:51	1
Pyrene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/06/25 08:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*16*	*T J*	*ug/L*		*4.69*	*N/A*	*03/03/25 13:44*	*03/06/25 08:51*	*1*
Unknown	*1.7*	*T J*	*ug/L*		*5.40*	*N/A*	*03/03/25 13:44*	*03/06/25 08:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*25 - 144*	*03/03/25 13:44*	*03/06/25 08:51*	*1*
2-Fluorobiphenyl	*81*		*53 - 126*	*03/03/25 13:44*	*03/06/25 08:51*	*1*

Client Sample ID: BD
Date Collected: 02/27/25 13:45
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-7
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		24 - 120	03/03/25 13:44	03/06/25 08:51	1
Nitrobenzene-d5	72		29 - 129	03/03/25 13:44	03/06/25 08:51	1
p-Terphenyl-d14	77		33 - 132	03/03/25 13:44	03/06/25 08:51	1
Phenol-d5	33		10 - 120	03/03/25 13:44	03/06/25 08:51	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		03/06/25 13:42	03/10/25 14:30	1
4,4'-DDE	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 14:30	1
4,4'-DDT	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 14:30	1
Aldrin	ND		0.050	0.0081	ug/L		03/06/25 13:42	03/10/25 14:30	1
alpha-BHC	ND		0.050	0.0077	ug/L		03/06/25 13:42	03/10/25 14:30	1
cis-Chlordane	ND		0.050	0.015	ug/L		03/06/25 13:42	03/10/25 14:30	1
beta-BHC	ND		0.050	0.025	ug/L		03/06/25 13:42	03/10/25 14:30	1
delta-BHC	ND		0.050	0.010	ug/L		03/06/25 13:42	03/10/25 14:30	1
Dieldrin	ND		0.050	0.0098	ug/L		03/06/25 13:42	03/10/25 14:30	1
Endosulfan I	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 14:30	1
Endosulfan II	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 14:30	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 14:30	1
Endrin	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 14:30	1
Endrin aldehyde	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 14:30	1
Endrin ketone	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 14:30	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		03/06/25 13:42	03/10/25 14:30	1
trans-Chlordane	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 14:30	1
Heptachlor	ND		0.050	0.0085	ug/L		03/06/25 13:42	03/10/25 14:30	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		03/06/25 13:42	03/10/25 14:30	1
Methoxychlor	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 14:30	1
Toxaphene	ND		0.50	0.12	ug/L		03/06/25 13:42	03/10/25 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		10 - 120	03/06/25 13:42	03/10/25 14:30	1
DCB Decachlorobiphenyl	68		10 - 120	03/06/25 13:42	03/10/25 14:30	1
Tetrachloro-m-xylene	78		10 - 120	03/06/25 13:42	03/10/25 14:30	1
Tetrachloro-m-xylene	79		10 - 120	03/06/25 13:42	03/10/25 14:30	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 22:12	1
PCB-1221	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 22:12	1
PCB-1232	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 22:12	1
PCB-1242	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 22:12	1
PCB-1248	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 22:12	1
PCB-1254	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 22:12	1
PCB-1260	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		10 - 123	03/04/25 06:40	03/04/25 22:12	1
DCB Decachlorobiphenyl	70		10 - 123	03/04/25 06:40	03/04/25 22:12	1
Tetrachloro-m-xylene	73		10 - 145	03/04/25 06:40	03/04/25 22:12	1
Tetrachloro-m-xylene	81		10 - 145	03/04/25 06:40	03/04/25 22:12	1

Client Sample ID: BD
Date Collected: 02/27/25 13:45
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-7
Matrix: Water

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		03/04/25 09:32	03/05/25 14:23	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		03/04/25 09:32	03/05/25 14:23	1
2,4-D	ND		0.48	0.16	ug/L		03/04/25 09:32	03/05/25 14:23	1
Dichlorprop	ND		0.48	0.11	ug/L		03/04/25 09:32	03/05/25 14:23	1
Pentachlorophenol	ND		0.48	0.047	ug/L		03/04/25 09:32	03/05/25 14:23	1
Picloram	ND		0.48	0.069	ug/L		03/04/25 09:32	03/05/25 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*79*		*21 - 143*	*03/04/25 09:32*	*03/05/25 14:23*	*1*
2,4-Dichlorophenylacetic acid	*80*		*21 - 143*	*03/04/25 09:32*	*03/05/25 14:23*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**16**		7.5	2.0	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluoropentanoic acid (PFPeA)	**14**		3.7	0.93	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorohexanoic acid (PFHxA)	**6.2**		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluoroheptanoic acid (PFHpA)	**1.6**	**J**	1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorooctanoic acid (PFOA)	**5.2**		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorobutanesulfonic acid (PFBS)	**2.3**		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorohexanesulfonic acid (PFHxS)	**1.8**	**J**	1.9	0.48	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorooctanesulfonic acid (PFOS)	**1.2**	**J**	1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.5	1.9	ng/L		03/06/25 09:19	03/07/25 01:05	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.5	1.9	ng/L		03/06/25 09:19	03/07/25 01:05	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.5	1.9	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.58	ng/L		03/06/25 09:19	03/07/25 01:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.49	ng/L		03/06/25 09:19	03/07/25 01:05	1

Client Sample ID: BD
Date Collected: 02/27/25 13:45
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-7
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		19	4.7	ng/L		03/06/25 09:19	03/07/25 01:05	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		19	4.7	ng/L		03/06/25 09:19	03/07/25 01:05	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.5	1.9	ng/L		03/06/25 09:19	03/07/25 01:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.5	1.9	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.7	0.93	ng/L		03/06/25 09:19	03/07/25 01:05	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.7	1.1	ng/L		03/06/25 09:19	03/07/25 01:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		7.5	1.9	ng/L		03/06/25 09:19	03/07/25 01:05	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		7.5	1.9	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.7	0.93	ng/L		03/06/25 09:19	03/07/25 01:05	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.3	2.3	ng/L		03/06/25 09:19	03/07/25 01:05	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		47	12	ng/L		03/06/25 09:19	03/07/25 01:05	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		47	14	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47	ng/L		03/06/25 09:19	03/07/25 01:05	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.7	0.93	ng/L		03/06/25 09:19	03/07/25 01:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*102*		*10 - 130*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C5 PFPeA	*100*		*35 - 150*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C5 PFHxA	*101*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C4 PFHpA	*105*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C8 PFOA	*86.8*		*60 - 140*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C9 PFNA	*85.9*		*55 - 140*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C6 PFDA	*83.7*		*50 - 140*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C7 PFUnA	*80.4*		*30 - 140*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C2 PFTeDA	*66.2*		*10 - 130*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C3 PFBS	*105*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C3 PFHxS	*90.3*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C8 PFOS	*98.2*		*45 - 140*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C8 PFOSA	*88.0*		*30 - 130*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
d3-NMeFOSAA	*85.2*		*45 - 200*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
d5-NEtFOSAA	*74.7*		*10 - 200*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
M2-4:2 FTS	*104*		*60 - 200*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
M2-6:2 FTS	*103*		*60 - 200*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
M2-8:2 FTS	*91.5*		*50 - 200*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C3 HFPO-DA	*103*		*25 - 160*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
d7-N-MeFOSE-M	*71.8*		*10 - 150*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
d9-N-EtFOSE-M	*49.9*		*10 - 150*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
d5-NEtPFOSA	*56.2*		*10 - 130*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
D3-NMeFOSA	*72.0*		*15 - 130*	*03/06/25 09:19*	*03/07/25 01:05*	*1*
13C2-PFDoDA	*70.4*		*10 - 150*	*03/06/25 09:19*	*03/07/25 01:05*	*1*

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: BD
Date Collected: 02/27/25 13:45
Date Received: 02/28/25 13:20

Lab Sample ID: 480-227586-7
Matrix: Water

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.22**		0.20	0.060	mg/L		03/03/25 08:07	03/03/25 16:43	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:07	03/03/25 16:43	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:07	03/03/25 16:43	1
Barium	**0.13**		0.0020	0.00070	mg/L		03/03/25 08:07	03/03/25 16:43	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/25 08:07	03/03/25 16:43	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:07	03/03/25 16:43	1
Calcium	**159**		0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:43	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:07	03/03/25 16:43	1
Cobalt	**0.0027**	**J**	0.0040	0.00063	mg/L		03/03/25 08:07	03/03/25 16:43	1
Copper	**0.0019**	**J**	0.010	0.0016	mg/L		03/03/25 08:07	03/03/25 16:43	1
Iron	**0.28**		0.050	0.019	mg/L		03/03/25 08:07	03/03/25 16:43	1
Lead	**0.0032**	**J**	0.010	0.0030	mg/L		03/03/25 08:07	03/03/25 16:43	1
Magnesium	**45.5**		0.20	0.043	mg/L		03/03/25 08:07	03/03/25 16:43	1
Manganese	**0.53**		0.0030	0.00040	mg/L		03/03/25 08:07	03/03/25 16:43	1
Nickel	**0.0036**	**J**	0.010	0.0013	mg/L		03/03/25 08:07	03/03/25 16:43	1
Potassium	**43.3**	**^+ ^2**	0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:43	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:07	03/03/25 16:43	1
Silver	ND		0.0060	0.0017	mg/L		03/03/25 08:07	03/03/25 16:43	1
Sodium	**461**		1.0	0.32	mg/L		03/03/25 08:07	03/03/25 16:43	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:07	03/03/25 16:43	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/25 08:07	03/03/25 16:43	1
Zinc	ND		0.050	0.0075	mg/L		03/03/25 08:07	03/04/25 16:18	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/25 08:04	03/03/25 16:02	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:04	03/03/25 16:02	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:04	03/03/25 16:02	1
Barium	**0.13**		0.0020	0.00070	mg/L		03/03/25 08:04	03/03/25 16:02	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/25 08:04	03/04/25 17:15	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:04	03/03/25 16:02	1
Calcium	**157**		0.50	0.10	mg/L		03/03/25 08:04	03/04/25 17:15	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:04	03/03/25 16:02	1
Cobalt	**0.0027**	**J**	0.0040	0.00063	mg/L		03/03/25 08:04	03/03/25 16:02	1
Copper	**0.0017**	**J ^5+**	0.010	0.0016	mg/L		03/03/25 08:04	03/03/25 16:02	1
Iron	ND	^5-	0.050	0.019	mg/L		03/03/25 08:04	03/03/25 16:02	1
Lead	ND		0.010	0.0030	mg/L		03/03/25 08:04	03/03/25 16:02	1
Magnesium	**44.4**		0.20	0.043	mg/L		03/03/25 08:04	03/03/25 16:02	1
Manganese	**0.53**	**B**	0.0030	0.00040	mg/L		03/03/25 08:04	03/03/25 16:02	1
Nickel	**0.0028**	**J**	0.010	0.0013	mg/L		03/03/25 08:04	03/03/25 16:02	1
Potassium	**42.4**		0.50	0.10	mg/L		03/03/25 08:04	03/03/25 16:02	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:04	03/03/25 16:02	1
Silver	ND	^5-	0.0060	0.0017	mg/L		03/03/25 08:04	03/03/25 16:02	1
Sodium	**456**		1.0	0.32	mg/L		03/03/25 08:04	03/03/25 16:02	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:04	03/03/25 16:02	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/25 08:04	03/03/25 16:02	1
Zinc	ND	^5-	0.050	0.0075	mg/L		03/03/25 08:04	03/04/25 17:16	5

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: BD
Lab Sample ID: 480-227586-7
Date Collected: 02/27/25 13:45
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/05/25 09:29	03/05/25 13:46	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/04/25 10:22	03/04/25 14:57	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 480-227586-8

Date Collected: 02/27/25 10:00
Matrix: Water
Date Received: 02/28/25 13:20

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		6.8	1.8	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluoropentanoic acid (PFPeA)	ND		3.4	0.85	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.44	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.8	1.7	ng/L		03/06/25 09:19	03/07/25 01:21	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.8	1.7	ng/L		03/06/25 09:19	03/07/25 01:21	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.8	1.7	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.53	ng/L		03/06/25 09:19	03/07/25 01:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.44	ng/L		03/06/25 09:19	03/07/25 01:21	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		17	4.3	ng/L		03/06/25 09:19	03/07/25 01:21	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		17	4.3	ng/L		03/06/25 09:19	03/07/25 01:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.8	1.7	ng/L		03/06/25 09:19	03/07/25 01:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.8	1.7	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.4	0.85	ng/L		03/06/25 09:19	03/07/25 01:21	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.4	1.0	ng/L		03/06/25 09:19	03/07/25 01:21	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		6.8	1.7	ng/L		03/06/25 09:19	03/07/25 01:21	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		6.8	1.7	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.4	0.85	ng/L		03/06/25 09:19	03/07/25 01:21	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 480-227586-8
Date Collected: 02/27/25 10:00
Matrix: Water
Date Received: 02/28/25 13:20

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.5	2.1	ng/L		03/06/25 09:19	03/07/25 01:21	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		43	11	ng/L		03/06/25 09:19	03/07/25 01:21	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		43	13	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.43	ng/L		03/06/25 09:19	03/07/25 01:21	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.4	0.85	ng/L		03/06/25 09:19	03/07/25 01:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*102*		*10 - 130*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C5 PFPeA	*101*		*35 - 150*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C5 PFHxA	*99.1*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C4 PFHpA	*102*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C8 PFOA	*87.9*		*60 - 140*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C9 PFNA	*89.3*		*55 - 140*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C6 PFDA	*84.7*		*50 - 140*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C7 PFUnA	*88.9*		*30 - 140*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C2 PFTeDA	*80.6*		*10 - 130*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C3 PFBS	*100*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C3 PFHxS	*93.4*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C8 PFOS	*99.6*		*45 - 140*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C8 PFOSA	*89.2*		*30 - 130*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
d3-NMeFOSAA	*79.4*		*45 - 200*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
d5-NEtFOSAA	*77.3*		*10 - 200*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
M2-4:2 FTS	*93.5*		*60 - 200*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
M2-6:2 FTS	*97.5*		*60 - 200*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
M2-8:2 FTS	*88.0*		*50 - 200*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C3 HFPO-DA	*103*		*25 - 160*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
d7-N-MeFOSE-M	*81.0*		*10 - 150*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
d9-N-EtFOSE-M	*63.3*		*10 - 150*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
d5-NEtPFOSA	*60.3*		*10 - 130*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
D3-NMeFOSA	*75.3*		*15 - 130*	*03/06/25 09:19*	*03/07/25 01:21*	*1*
13C2-PFDoDA	*79.1*		*10 - 150*	*03/06/25 09:19*	*03/07/25 01:21*	*1*

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: FIELD BLANK
Lab Sample ID: 480-227586-9

Date Collected: 02/27/25 15:45
Matrix: Water
Date Received: 02/28/25 13:20

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		7.2	1.9	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluoropentanoic acid (PFPeA)	ND		3.6	0.90	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.47	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 01:38	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 01:38	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.56	ng/L		03/06/25 09:19	03/07/25 01:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.47	ng/L		03/06/25 09:19	03/07/25 01:38	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.5	ng/L		03/06/25 09:19	03/07/25 01:38	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.5	ng/L		03/06/25 09:19	03/07/25 01:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 01:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.6	0.90	ng/L		03/06/25 09:19	03/07/25 01:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.6	1.1	ng/L		03/06/25 09:19	03/07/25 01:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 01:38	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		7.2	1.8	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.6	0.90	ng/L		03/06/25 09:19	03/07/25 01:38	1

Client Sample ID: FIELD BLANK
Lab Sample ID: 480-227586-9
Date Collected: 02/27/25 15:45
Matrix: Water
Date Received: 02/28/25 13:20

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.0	2.2	ng/L		03/06/25 09:19	03/07/25 01:38	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		45	11	ng/L		03/06/25 09:19	03/07/25 01:38	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		45	13	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.45	ng/L		03/06/25 09:19	03/07/25 01:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.6	0.90	ng/L		03/06/25 09:19	03/07/25 01:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*83.4*		*10 - 130*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C5 PFPeA	*82.4*		*35 - 150*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C5 PFHxA	*78.0*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C4 PFHpA	*83.8*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C8 PFOA	*77.9*		*60 - 140*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C9 PFNA	*69.0*		*55 - 140*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C6 PFDA	*71.1*		*50 - 140*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C7 PFUnA	*74.5*		*30 - 140*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C2 PFTeDA	*65.8*		*10 - 130*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C3 PFBS	*85.6*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C3 PFHxS	*73.8*		*55 - 150*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C8 PFOS	*84.8*		*45 - 140*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C8 PFOSA	*80.2*		*30 - 130*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
d3-NMeFOSAA	*77.9*		*45 - 200*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
d5-NEtFOSAA	*75.2*		*10 - 200*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
M2-4:2 FTS	*77.6*		*60 - 200*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
M2-6:2 FTS	*82.6*		*60 - 200*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
M2-8:2 FTS	*80.0*		*50 - 200*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C3 HFPO-DA	*77.5*		*25 - 160*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
d7-N-MeFOSE-M	*66.9*		*10 - 150*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
d9-N-EtFOSE-M	*50.6*		*10 - 150*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
d5-NEtPFOSA	*57.7*		*10 - 130*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
D3-NMeFOSA	*74.2*		*15 - 130*	*03/06/25 09:19*	*03/07/25 01:38*	*1*
13C2-PFDoDA	*70.4*		*10 - 150*	*03/06/25 09:19*	*03/07/25 01:38*	*1*

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-227586-10

Date Collected: 02/27/25 09:00
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/03/25 17:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/03/25 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/03/25 17:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/03/25 17:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/03/25 17:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/03/25 17:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/03/25 17:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/03/25 17:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/03/25 17:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/03/25 17:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/03/25 17:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/03/25 17:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/03/25 17:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/03/25 17:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/03/25 17:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/03/25 17:15	1
2-Hexanone	ND		5.0	1.2	ug/L			03/03/25 17:15	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/03/25 17:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/03/25 17:15	1
Acetone	ND		10	3.0	ug/L			03/03/25 17:15	1
Benzene	ND		1.0	0.41	ug/L			03/03/25 17:15	1
Bromoform	ND		1.0	0.26	ug/L			03/03/25 17:15	1
Bromomethane	ND		1.0	0.69	ug/L			03/03/25 17:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/03/25 17:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/03/25 17:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/03/25 17:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/03/25 17:15	1
Chloroethane	ND		1.0	0.32	ug/L			03/03/25 17:15	1
Chloroform	ND		1.0	0.34	ug/L			03/03/25 17:15	1
Chloromethane	ND		1.0	0.35	ug/L			03/03/25 17:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/03/25 17:15	1
Cyclohexane	ND		1.0	0.18	ug/L			03/03/25 17:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/03/25 17:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/03/25 17:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/03/25 17:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/03/25 17:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/03/25 17:15	1
Methyl acetate	ND		2.5	1.3	ug/L			03/03/25 17:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/03/25 17:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/03/25 17:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/03/25 17:15	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/03/25 17:15	1
Naphthalene	ND		1.0	0.43	ug/L			03/03/25 17:15	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/03/25 17:15	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/03/25 17:15	1
o-Xylene	ND		1.0	0.76	ug/L			03/03/25 17:15	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/03/25 17:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/03/25 17:15	1
Toluene	ND		1.0	0.51	ug/L			03/03/25 17:15	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-227586-10
Date Collected: 02/27/25 09:00
Matrix: Water
Date Received: 02/28/25 13:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/03/25 17:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/03/25 17:15	1
Trichloroethene	ND		1.0	0.46	ug/L			03/03/25 17:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/03/25 17:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/03/25 17:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/03/25 17:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/03/25 17:15	1
Styrene	ND		1.0	0.73	ug/L			03/03/25 17:15	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/03/25 17:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/03/25 17:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*03/03/25 17:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*03/03/25 17:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/03/25 17:15*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*03/03/25 17:15*	*1*

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	TOL	DBFM				
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)				
480-227586-1	MW-1	102	98	99	105				
480-227586-2	MW-2	103	101	101	106				
480-227586-2 MS	MW-2	106	97	97	109				
480-227586-2 MSD	MW-2	114	98	96	108				
480-227586-3	MW-3	104	97	99	108				
480-227586-4	MW-4	103	102	104	107				
480-227586-5	MW-5	104	98	100	108				
480-227586-6	MW-6	108	102	101	109				
480-227586-7	BD	102	99	98	106				
480-227586-10	TRIP BLANK	106	99	101	107				
LCS 480-739933/6	Lab Control Sample	104	101	98	107				
MB 480-739933/8	Method Blank	104	103	101	107				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	TPHd14	PHL		
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(33-132)	(10-120)		
480-227586-1	MW-1	85	97	60	84	73	40		
480-227586-2	MW-2	80	79	51	70	87	32		
480-227586-2 MS	MW-2	95	83	50	75	80	38		
480-227586-2 MSD	MW-2	86	73	49	71	79	36		
480-227586-3	MW-3	91	74	40	58	58	29		
480-227586-4	MW-4	77	79	47	69	73	32		
480-227586-5	MW-5	86	85	52	73	80	36		
480-227586-6	MW-6	88	78	46	66	77	32		
480-227586-7	BD	79	81	49	72	77	33		
LCS 480-739963/2-A	Lab Control Sample	84	76	51	72	87	38		
MB 480-739963/1-A	Method Blank	72	70	50	67	98	33		

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (10-120)	DCBP2 (10-120)	TCX1 (10-120)	TCX2 (10-120)
480-227586-1	MW-1	71	60	72	72
480-227586-2	MW-2	90	77	81	80
480-227586-2 MS	MW-2	75	64	72	71
480-227586-2 MSD	MW-2	67	54	79	72
480-227586-3	MW-3	78	66	78	77
480-227586-4	MW-4	81	83	76	77
480-227586-5	MW-5	55	40	59	69
480-227586-6	MW-6	70	59	75	78
480-227586-7	BD	78	68	78	79
LCS 480-740242/2-A	Lab Control Sample	67	56	75	75
MB 480-740242/1-A	Method Blank	94	90	84	78

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (10-123)	DCBP2 (10-123)	TCX1 (10-145)	TCX2 (10-145)
480-227586-1	MW-1	54	60	70	75
480-227586-2	MW-2	67	75	64	70
480-227586-2 MS	MW-2	69	75	71	73
480-227586-2 MSD	MW-2	51	57	78	80
480-227586-3	MW-3	54	59	77	82
480-227586-4	MW-4	66	70	70	76
480-227586-5	MW-5	50	54	69	74
480-227586-6	MW-6	56	64	70	77
480-227586-7	BD	68	70	73	81
LCS 480-739973/2-A	Lab Control Sample	86	92	74	80
MB 480-739973/1-A	Method Blank	85	89	65	71

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPAA1 (21-143)	DCPAA2 (21-143)
480-227586-1	MW-1	83	82
480-227586-2	MW-2	85	79
480-227586-2 MS	MW-2	96	134
480-227586-2 MSD	MW-2	73	96
480-227586-3	MW-3	77	81
480-227586-4	MW-4	71	73
480-227586-5	MW-5	35	35
480-227586-6	MW-6	80	81

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCPAA1 (21-143)	DCPAA2 (21-143)								
480-227586-7	BD	79	80								
LCS 480-739997/2-A	Lab Control Sample	92	79								
MB 480-739997/1-A	Method Blank	70	71								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (15-110)							
480-227586-1	MW-1	34							
480-227586-2	MW-2	31							
480-227586-2 MS	MW-2	32							
480-227586-2 MSD	MW-2	31							
480-227586-3	MW-3	30							
480-227586-4	MW-4	33							
480-227586-5	MW-5	30							
480-227586-6	MW-6	29							
480-227586-7	BD	29							
LCS 480-739939/2-A	Lab Control Sample	32							
LCS 480-740178/2-A	Lab Control Sample	36							
MB 480-739939/1-A	Method Blank	34							
MB 480-740178/1-A	Method Blank	29							

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (10-130)	PFPeA (35-150)	13C5PHA (55-150)	C4PFHA (55-150)	C8PFOA (60-140)	C9PFNA (55-140)	C6PFDA (50-140)	13C7PUA (30-140)
480-227586-1	MW-1	98.9	96.3	90.5	98.3	87.8	84.5	80.2	67.7
480-227586-2	MW-2	82.8	84.3	75.9	84.9	73.0	66.7	68.0	72.0
480-227586-2 MS	MW-2	101	94.0	89.2	97.3	87.9	83.1	79.9	81.5
480-227586-2 MSD	MW-2	98.9	99.9	93.5	102	92.4	89.1	88.1	87.1
480-227586-3	MW-3	98.0	96.6	91.1	98.7	88.4	77.9	73.0	68.5
480-227586-4	MW-4	100	97.0	94.0	101	86.9	78.8	75.5	70.0
480-227586-4 DU	MW-4	93.7	92.9	86.0	92.8	86.6	81.0	79.4	77.0
480-227586-5	MW-5	102	98.0	92.6	102	90.9	87.2	87.6	83.0
480-227586-6	MW-6	100	105	98.6	103	90.3	86.7	81.1	79.1
480-227586-7	BD	102	100	101	105	86.8	85.9	83.7	80.4
480-227586-8	EQUIPMENT BLANK	102	101	99.1	102	87.9	89.3	84.7	88.9
480-227586-9	FIELD BLANK	83.4	82.4	78.0	83.8	77.9	69.0	71.1	74.5
MB 240-647079/1-A	Method Blank	95.9	96.7	99.8	102	90.2	85.8	88.3	87.8

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (55-150)	C3PFHS (55-150)	C8PFOS (45-140)	PFOSA (30-130)	d3NMFOS (45-200)	d5NEFOS (10-200)	M242FTS (60-200)
480-227586-1	MW-1	61.4	98.5	82.6	77.4	69.9	76.8	72.5	90.7
480-227586-2	MW-2	71.7	77.3	70.4	76.0	75.7	74.3	73.4	74.4
480-227586-2 MS	MW-2	78.3	96.5	85.4	89.6	86.6	78.1	75.2	89.4
480-227586-2 MSD	MW-2	83.6	94.8	90.5	101	92.2	87.2	83.7	95.2
480-227586-3	MW-3	63.3	90.6	77.9	76.2	76.3	70.3	64.0	85.3
480-227586-4	MW-4	61.6	94.3	82.2	80.4	81.0	72.8	67.6	99.4
480-227586-4 DU	MW-4	66.9	95.4	85.6	93.8	81.8	81.0	73.1	92.9
480-227586-5	MW-5	72.6	100	89.9	98.2	83.8	84.7	77.2	107
480-227586-6	MW-6	69.8	100	87.7	96.8	90.7	85.4	78.2	112
480-227586-7	BD	66.2	105	90.3	98.2	88.0	85.2	74.7	104
480-227586-8	EQUIPMENT BLANK	80.6	100	93.4	99.6	89.2	79.4	77.3	93.5

Isotope Dilution Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (55-150)	C3PFHS (55-150)	C8PFOS (45-140)	PFOSA (30-130)	d3NMFOS (45-200)	d5NEFOS (10-200)	M242FTS (60-200)
480-227586-9	FIELD BLANK	65.8	85.6	73.8	84.8	80.2	77.9	75.2	77.6
MB 240-647079/1-A	Method Blank	80.0	98.4	91.3	96.9	90.2	86.6	81.4	98.4

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (60-200)	M282FTS (50-200)	HFPODA (25-160)	NMFM (10-150)	NEFM (10-150)	d5NPFSA (10-130)	d3NMFSA (15-130)	PFDoDA (10-150)
480-227586-1	MW-1	91.5	80.3	98.1	64.8	46.2	49.1	63.1	56.2
480-227586-2	MW-2	74.3	71.2	85.1	76.2	64.2	58.1	68.8	68.1
480-227586-2 MS	MW-2	97.2	81.9	93.4	71.6	55.3	63.2	80.8	73.8
480-227586-2 MSD	MW-2	98.1	88.7	91.2	87.8	64.8	64.2	79.8	77.2
480-227586-3	MW-3	92.2	79.7	93.6	55.3	30.7	49.4	64.7	58.0
480-227586-4	MW-4	89.1	75.6	94.1	50.5	41.4	56.5	72.6	60.5
480-227586-4 DU	MW-4	91.1	86.6	90.4	69.3	52.0	53.7	65.3	65.9
480-227586-5	MW-5	94.4	88.1	97.1	60.7	35.6	50.9	67.8	70.6
480-227586-6	MW-6	96.6	83.7	102	51.2	21.7	61.7	76.8	72.1
480-227586-7	BD	103	91.5	103	71.8	49.9	56.2	72.0	70.4
480-227586-8	EQUIPMENT BLANK	97.5	88.0	103	81.0	63.3	60.3	75.3	79.1
480-227586-9	FIELD BLANK	82.6	80.0	77.5	66.9	50.6	57.7	74.2	70.4
MB 240-647079/1-A	Method Blank	99.3	93.3	103	82.7	66.3	65.5	74.6	78.0

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = D3-NMeFOSA
PFDoDA = 13C2-PFDoDA

Isotope Dilution Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (10-130)	PFPeA (40-150)	13C5PHA (40-150)	C4PFHA (40-150)	C8PFOA (30-140)	C9PFNA (30-140)	C6PFDA (20-140)	13C7PUA (20-140)
LCS 240-647079/3-A	Lab Control Sample	102	96.0	93.0	99.9	96.8	88.1	88.0	92.4
LLCS 240-647079/2-A	Lab Control Sample	101	103	93.7	106	95.2	84.2	88.4	87.4

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (25-150)	C3PFHS (25-150)	C8PFOS (20-140)	PFOSA (10-130)	d3NMFOS (10-200)	d5NEFOS (10-200)	M242FTS (25-200)
LCS 240-647079/3-A	Lab Control Sample	88.0	96.4	89.1	102	98.4	90.1	88.2	91.4
LLCS 240-647079/2-A	Lab Control Sample	81.5	101	90.5	99.4	96.0	89.6	87.9	93.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-200)	M282FTS (25-200)	HFPODA (25-160)	NMFM (10-150)	NEFM (10-150)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDoDA (10-150)
LCS 240-647079/3-A	Lab Control Sample	101	91.9	96.7	89.4	69.1	68.6	84.8	82.6
LLCS 240-647079/2-A	Lab Control Sample	97.2	97.5	104	79.8	59.1	64.6	75.3	78.8

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = D3-NMeFOSA
PFDoDA = 13C2-PFDoDA

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-739933/8
Matrix: Water
Analysis Batch: 739933

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/03/25 13:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/03/25 13:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/03/25 13:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/03/25 13:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/03/25 13:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/03/25 13:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/03/25 13:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/03/25 13:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/03/25 13:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/03/25 13:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/03/25 13:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/03/25 13:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/03/25 13:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/03/25 13:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/03/25 13:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/03/25 13:59	1
2-Hexanone	ND		5.0	1.2	ug/L			03/03/25 13:59	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/03/25 13:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/03/25 13:59	1
Acetone	ND		10	3.0	ug/L			03/03/25 13:59	1
Benzene	ND		1.0	0.41	ug/L			03/03/25 13:59	1
Bromoform	ND		1.0	0.26	ug/L			03/03/25 13:59	1
Bromomethane	ND		1.0	0.69	ug/L			03/03/25 13:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/03/25 13:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/03/25 13:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/03/25 13:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/03/25 13:59	1
Chloroethane	ND		1.0	0.32	ug/L			03/03/25 13:59	1
Chloroform	ND		1.0	0.34	ug/L			03/03/25 13:59	1
Chloromethane	ND		1.0	0.35	ug/L			03/03/25 13:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/03/25 13:59	1
Cyclohexane	ND		1.0	0.18	ug/L			03/03/25 13:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/03/25 13:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/03/25 13:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/03/25 13:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/03/25 13:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/03/25 13:59	1
Methyl acetate	ND		2.5	1.3	ug/L			03/03/25 13:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/03/25 13:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/03/25 13:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/03/25 13:59	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/03/25 13:59	1
Naphthalene	ND		1.0	0.43	ug/L			03/03/25 13:59	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/03/25 13:59	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/03/25 13:59	1
o-Xylene	ND		1.0	0.76	ug/L			03/03/25 13:59	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/03/25 13:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/03/25 13:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-739933/8
Matrix: Water
Analysis Batch: 739933

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.51	ug/L			03/03/25 13:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/03/25 13:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/03/25 13:59	1
Trichloroethene	ND		1.0	0.46	ug/L			03/03/25 13:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/03/25 13:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/03/25 13:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/03/25 13:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/03/25 13:59	1
Styrene	ND		1.0	0.73	ug/L			03/03/25 13:59	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/03/25 13:59	1

Tentatively Identified Compound	*Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/03/25 13:59*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*03/03/25 13:59*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*03/03/25 13:59*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/03/25 13:59*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*03/03/25 13:59*	*1*

Lab Sample ID: LCS 480-739933/6
Matrix: Water
Analysis Batch: 739933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	26.6		ug/L		106	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.4		ug/L		86	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.0		ug/L		96	61 - 148
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	76 - 122
1,1-Dichloroethane	25.0	24.8		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	24.0		ug/L		96	66 - 127
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		95	79 - 122
1,2,4-Trimethylbenzene	25.0	24.1		ug/L		96	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	56 - 134
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	24.9		ug/L		100	76 - 120
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		97	77 - 121
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	77 - 120
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	80 - 120
2-Butanone (MEK)	125	128		ug/L		102	57 - 140
2-Hexanone	125	120		ug/L		96	65 - 127
4-Isopropyltoluene	25.0	24.2		ug/L		97	73 - 120
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	71 - 125
Acetone	125	130		ug/L		104	56 - 142
Benzene	25.0	23.9		ug/L		95	71 - 124
Bromoform	25.0	24.3		ug/L		97	61 - 132

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-739933/6
Matrix: Water
Analysis Batch: 739933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	25.0	23.1		ug/L		93	55 - 144
Carbon disulfide	25.0	23.0		ug/L		92	59 - 134
Carbon tetrachloride	25.0	27.5		ug/L		110	72 - 134
Chlorobenzene	25.0	23.5		ug/L		94	80 - 120
Dibromochloromethane	25.0	24.7		ug/L		99	75 - 125
Chloroethane	25.0	21.2		ug/L		85	69 - 136
Chloroform	25.0	24.2		ug/L		97	73 - 127
Chloromethane	25.0	24.4		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
Cyclohexane	25.0	25.4		ug/L		102	59 - 135
Bromodichloromethane	25.0	25.7		ug/L		103	80 - 122
Dichlorodifluoromethane	25.0	22.6		ug/L		90	59 - 135
Ethylbenzene	25.0	23.6		ug/L		95	77 - 123
1,2-Dibromoethane	25.0	22.7		ug/L		91	77 - 120
Isopropylbenzene	25.0	24.2		ug/L		97	77 - 122
Methyl acetate	50.0	50.3		ug/L		101	74 - 133
Methyl tert-butyl ether	25.0	23.3		ug/L		93	77 - 120
Methylcyclohexane	25.0	24.8		ug/L		99	68 - 134
Methylene Chloride	25.0	25.2		ug/L		101	75 - 124
m,p-Xylene	25.0	24.0		ug/L		96	76 - 122
Naphthalene	25.0	22.6		ug/L		91	66 - 125
n-Butylbenzene	25.0	24.1		ug/L		96	71 - 128
N-Propylbenzene	25.0	23.9		ug/L		96	75 - 127
o-Xylene	25.0	23.6		ug/L		94	76 - 122
sec-Butylbenzene	25.0	24.1		ug/L		97	74 - 127
Tetrachloroethene	25.0	24.1		ug/L		96	74 - 122
Toluene	25.0	23.4		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	23.0		ug/L		92	80 - 120
Trichloroethene	25.0	24.9		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	24.8		ug/L		99	62 - 150
Vinyl chloride	25.0	23.9		ug/L		95	65 - 133
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	74 - 124
Styrene	25.0	23.9		ug/L		95	80 - 120
tert-Butylbenzene	25.0	24.3		ug/L		97	75 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 739933

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		25.0	29.9		ug/L		120	73 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 739933

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	ND		25.0	23.9		ug/L		95	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.8		ug/L		111	61 - 148
1,1,2-Trichloroethane	ND		25.0	23.8		ug/L		95	76 - 122
1,1-Dichloroethane	ND		25.0	28.7		ug/L		115	77 - 120
1,1-Dichloroethene	ND		25.0	28.3		ug/L		113	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	25.1		ug/L		101	79 - 122
1,2,4-Trimethylbenzene	ND		25.0	26.3		ug/L		105	76 - 121
1,2-Dibromo-3-Chloropropane	ND		25.0	25.8		ug/L		103	56 - 134
1,2-Dichlorobenzene	ND		25.0	24.8		ug/L		99	80 - 124
1,2-Dichloroethane	ND		25.0	26.9		ug/L		107	75 - 120
1,2-Dichloropropane	ND		25.0	27.5		ug/L		110	76 - 120
1,3,5-Trimethylbenzene	ND		25.0	26.6		ug/L		106	77 - 121
1,3-Dichlorobenzene	ND		25.0	25.4		ug/L		101	77 - 120
1,4-Dichlorobenzene	ND		25.0	25.1		ug/L		101	78 - 124
2-Butanone (MEK)	ND		125	139		ug/L		111	57 - 140
2-Hexanone	ND		125	128		ug/L		103	65 - 127
4-Isopropyltoluene	ND		25.0	26.4		ug/L		106	73 - 120
4-Methyl-2-pentanone (MIBK)	ND		125	132		ug/L		106	71 - 125
Acetone	ND		125	142		ug/L		113	56 - 142
Benzene	ND		25.0	27.1		ug/L		108	71 - 124
Bromoform	ND		25.0	24.2		ug/L		97	61 - 132
Bromomethane	ND		25.0	26.1		ug/L		104	55 - 144
Carbon disulfide	ND		25.0	26.5		ug/L		106	59 - 134
Carbon tetrachloride	ND		25.0	31.1		ug/L		124	72 - 134
Chlorobenzene	ND		25.0	25.3		ug/L		101	80 - 120
Dibromochloromethane	ND		25.0	25.3		ug/L		101	75 - 125
Chloroethane	ND		25.0	23.9		ug/L		96	69 - 136
Chloroform	ND		25.0	26.9		ug/L		108	73 - 127
Chloromethane	ND	F1	25.0	31.5	F1	ug/L		126	68 - 124
cis-1,2-Dichloroethene	ND		25.0	28.0		ug/L		112	74 - 124
Cyclohexane	ND		25.0	28.7		ug/L		115	59 - 135
Bromodichloromethane	ND		25.0	27.9		ug/L		112	80 - 122
Dichlorodifluoromethane	ND		25.0	32.0		ug/L		128	59 - 135
Ethylbenzene	ND		25.0	25.5		ug/L		102	77 - 123
1,2-Dibromoethane	ND		25.0	24.3		ug/L		97	77 - 120
Isopropylbenzene	ND		25.0	27.0		ug/L		108	77 - 122
Methyl acetate	ND		50.0	59.4		ug/L		119	74 - 133
Methyl tert-butyl ether	ND		25.0	26.2		ug/L		105	77 - 120
Methylcyclohexane	ND		25.0	27.4		ug/L		110	68 - 134
Methylene Chloride	ND		25.0	28.6		ug/L		115	75 - 124
m,p-Xylene	ND		25.0	25.6		ug/L		102	76 - 122
Naphthalene	ND		25.0	24.6		ug/L		98	66 - 125
n-Butylbenzene	ND		25.0	26.0		ug/L		104	71 - 128
N-Propylbenzene	ND		25.0	26.5		ug/L		106	75 - 127
o-Xylene	ND		25.0	25.5		ug/L		102	76 - 122
sec-Butylbenzene	ND		25.0	26.7		ug/L		107	74 - 127
Tetrachloroethene	ND		25.0	26.1		ug/L		104	74 - 122
Toluene	ND		25.0	25.4		ug/L		102	80 - 122

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 739933

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	ND		25.0	28.6		ug/L		114	73 - 127
trans-1,3-Dichloropropene	ND		25.0	24.0		ug/L		96	80 - 120
Trichloroethene	ND		25.0	28.7		ug/L		115	74 - 123
Trichlorofluoromethane	ND		25.0	28.8		ug/L		115	62 - 150
Vinyl chloride	ND		25.0	29.4		ug/L		117	65 - 133
cis-1,3-Dichloropropene	ND		25.0	26.0		ug/L		104	74 - 124
Styrene	ND		25.0	25.3		ug/L		101	80 - 120
tert-Butylbenzene	ND		25.0	26.9		ug/L		107	75 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 739933

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	30.1		ug/L		120	73 - 126	1	15
1,1,2,2-Tetrachloroethane	ND		25.0	23.3		ug/L		93	76 - 120	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	28.1		ug/L		112	61 - 148	1	20
1,1,2-Trichloroethane	ND		25.0	24.4		ug/L		98	76 - 122	3	15
1,1-Dichloroethane	ND		25.0	28.5		ug/L		114	77 - 120	1	20
1,1-Dichloroethene	ND		25.0	28.4		ug/L		114	66 - 127	0	16
1,2,4-Trichlorobenzene	ND		25.0	25.1		ug/L		100	79 - 122	0	20
1,2,4-Trimethylbenzene	ND		25.0	25.6		ug/L		102	76 - 121	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	26.3		ug/L		105	56 - 134	2	15
1,2-Dichlorobenzene	ND		25.0	25.0		ug/L		100	80 - 124	1	20
1,2-Dichloroethane	ND		25.0	27.5		ug/L		110	75 - 120	2	20
1,2-Dichloropropane	ND		25.0	27.9		ug/L		111	76 - 120	1	20
1,3,5-Trimethylbenzene	ND		25.0	25.7		ug/L		103	77 - 121	3	20
1,3-Dichlorobenzene	ND		25.0	24.8		ug/L		99	77 - 120	2	20
1,4-Dichlorobenzene	ND		25.0	24.8		ug/L		99	78 - 124	1	20
2-Butanone (MEK)	ND		125	145		ug/L		116	57 - 140	5	20
2-Hexanone	ND		125	137		ug/L		109	65 - 127	6	15
4-Isopropyltoluene	ND		25.0	25.9		ug/L		104	73 - 120	2	20
4-Methyl-2-pentanone (MIBK)	ND		125	139		ug/L		111	71 - 125	5	35
Acetone	ND		125	147		ug/L		117	56 - 142	3	15
Benzene	ND		25.0	27.0		ug/L		108	71 - 124	0	13
Bromoform	ND		25.0	25.6		ug/L		102	61 - 132	5	15
Bromomethane	ND		25.0	27.8		ug/L		111	55 - 144	6	15
Carbon disulfide	ND		25.0	26.2		ug/L		105	59 - 134	1	15
Carbon tetrachloride	ND		25.0	31.3		ug/L		125	72 - 134	1	15
Chlorobenzene	ND		25.0	25.5		ug/L		102	80 - 120	1	25
Dibromochloromethane	ND		25.0	26.5		ug/L		106	75 - 125	5	15
Chloroethane	ND		25.0	24.5		ug/L		98	69 - 136	2	15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 739933

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroform	ND		25.0	27.4		ug/L		110	73 - 127	2	20
Chloromethane	ND	F1	25.0	30.9		ug/L		124	68 - 124	2	15
cis-1,2-Dichloroethene	ND		25.0	27.6		ug/L		110	74 - 124	1	15
Cyclohexane	ND		25.0	28.2		ug/L		113	59 - 135	2	20
Bromodichloromethane	ND		25.0	28.7		ug/L		115	80 - 122	3	15
Dichlorodifluoromethane	ND		25.0	29.6		ug/L		118	59 - 135	8	20
Ethylbenzene	ND		25.0	25.6		ug/L		102	77 - 123	0	15
1,2-Dibromoethane	ND		25.0	24.8		ug/L		99	77 - 120	2	15
Isopropylbenzene	ND		25.0	26.2		ug/L		105	77 - 122	3	20
Methyl acetate	ND		50.0	62.6		ug/L		125	74 - 133	5	20
Methyl tert-butyl ether	ND		25.0	26.2		ug/L		105	77 - 120	0	37
Methylcyclohexane	ND		25.0	26.8		ug/L		107	68 - 134	2	20
Methylene Chloride	ND		25.0	27.9		ug/L		112	75 - 124	2	15
m,p-Xylene	ND		25.0	26.1		ug/L		105	76 - 122	2	16
Naphthalene	ND		25.0	25.1		ug/L		100	66 - 125	2	20
n-Butylbenzene	ND		25.0	26.0		ug/L		104	71 - 128	0	15
N-Propylbenzene	ND		25.0	26.0		ug/L		104	75 - 127	2	15
o-Xylene	ND		25.0	25.6		ug/L		102	76 - 122	0	16
sec-Butylbenzene	ND		25.0	26.1		ug/L		104	74 - 127	2	15
Tetrachloroethene	ND		25.0	26.6		ug/L		106	74 - 122	2	20
Toluene	ND		25.0	25.5		ug/L		102	80 - 122	0	15
trans-1,2-Dichloroethene	ND		25.0	28.0		ug/L		112	73 - 127	2	20
trans-1,3-Dichloropropene	ND		25.0	24.2		ug/L		97	80 - 120	1	15
Trichloroethene	ND		25.0	28.2		ug/L		113	74 - 123	2	16
Trichlorofluoromethane	ND		25.0	29.1		ug/L		116	62 - 150	1	20
Vinyl chloride	ND		25.0	28.7		ug/L		115	65 - 133	2	15
cis-1,3-Dichloropropene	ND		25.0	27.0		ug/L		108	74 - 124	4	15
Styrene	ND		25.0	26.0		ug/L		104	80 - 120	3	20
tert-Butylbenzene	ND		25.0	26.3		ug/L		105	75 - 123	2	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-739963/1-A
Matrix: Water
Analysis Batch: 740003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		03/03/25 13:44	03/04/25 20:52	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/03/25 13:44	03/04/25 20:52	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/04/25 20:52	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/03/25 13:44	03/04/25 20:52	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/03/25 13:44	03/04/25 20:52	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/03/25 13:44	03/04/25 20:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-739963/1-A
Matrix: Water
Analysis Batch: 740003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/04/25 20:52	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/03/25 13:44	03/04/25 20:52	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/04/25 20:52	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/03/25 13:44	03/04/25 20:52	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/03/25 13:44	03/04/25 20:52	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/03/25 13:44	03/04/25 20:52	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/03/25 13:44	03/04/25 20:52	1
2-Nitroaniline	ND		10	0.42	ug/L		03/03/25 13:44	03/04/25 20:52	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/03/25 13:44	03/04/25 20:52	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/03/25 13:44	03/04/25 20:52	1
3-Nitroaniline	ND		10	0.48	ug/L		03/03/25 13:44	03/04/25 20:52	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/03/25 13:44	03/04/25 20:52	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/03/25 13:44	03/04/25 20:52	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/03/25 13:44	03/04/25 20:52	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/03/25 13:44	03/04/25 20:52	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/03/25 13:44	03/04/25 20:52	1
4-Methylphenol	ND		10	0.36	ug/L		03/03/25 13:44	03/04/25 20:52	1
4-Nitroaniline	ND		10	0.25	ug/L		03/03/25 13:44	03/04/25 20:52	1
4-Nitrophenol	ND		10	1.5	ug/L		03/03/25 13:44	03/04/25 20:52	1
Acenaphthene	ND		5.0	0.41	ug/L		03/03/25 13:44	03/04/25 20:52	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/03/25 13:44	03/04/25 20:52	1
Acetophenone	ND		5.0	0.54	ug/L		03/03/25 13:44	03/04/25 20:52	1
Anthracene	ND		5.0	0.28	ug/L		03/03/25 13:44	03/04/25 20:52	1
Atrazine	ND		5.0	0.46	ug/L		03/03/25 13:44	03/04/25 20:52	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/03/25 13:44	03/04/25 20:52	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/04/25 20:52	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/04/25 20:52	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/04/25 20:52	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/03/25 13:44	03/04/25 20:52	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/03/25 13:44	03/04/25 20:52	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/03/25 13:44	03/04/25 20:52	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/03/25 13:44	03/04/25 20:52	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/03/25 13:44	03/04/25 20:52	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/03/25 13:44	03/04/25 20:52	1
Caprolactam	ND		5.0	2.2	ug/L		03/03/25 13:44	03/04/25 20:52	1
Carbazole	ND		5.0	0.30	ug/L		03/03/25 13:44	03/04/25 20:52	1
Chrysene	ND		5.0	0.33	ug/L		03/03/25 13:44	03/04/25 20:52	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		03/03/25 13:44	03/04/25 20:52	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/03/25 13:44	03/04/25 20:52	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/03/25 13:44	03/04/25 20:52	1
Dibenzofuran	ND		10	0.51	ug/L		03/03/25 13:44	03/04/25 20:52	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/03/25 13:44	03/04/25 20:52	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/03/25 13:44	03/04/25 20:52	1
Fluoranthene	ND		5.0	0.40	ug/L		03/03/25 13:44	03/04/25 20:52	1
Fluorene	ND		5.0	0.36	ug/L		03/03/25 13:44	03/04/25 20:52	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/03/25 13:44	03/04/25 20:52	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/03/25 13:44	03/04/25 20:52	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/03/25 13:44	03/04/25 20:52	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/03/25 13:44	03/04/25 20:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-739963/1-A
Matrix: Water
Analysis Batch: 740003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/03/25 13:44	03/04/25 20:52	1
Isophorone	ND		5.0	0.43	ug/L		03/03/25 13:44	03/04/25 20:52	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/03/25 13:44	03/04/25 20:52	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/03/25 13:44	03/04/25 20:52	1
Naphthalene	ND		5.0	0.76	ug/L		03/03/25 13:44	03/04/25 20:52	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/03/25 13:44	03/04/25 20:52	1
Pentachlorophenol	ND		10	2.2	ug/L		03/03/25 13:44	03/04/25 20:52	1
Phenanthrene	ND		5.0	0.44	ug/L		03/03/25 13:44	03/04/25 20:52	1
Phenol	ND		5.0	0.39	ug/L		03/03/25 13:44	03/04/25 20:52	1
Pyrene	ND		5.0	0.34	ug/L		03/03/25 13:44	03/04/25 20:52	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Propanone, 1-chloro-	*2.60*	*T J N*	*ug/L*		*3.41*	*78-95-5*	*03/03/25 13:44*	*03/04/25 20:52*	*1*
Unknown	*19.6*	*T J*	*ug/L*		*4.77*	*N/A*	*03/03/25 13:44*	*03/04/25 20:52*	*1*
Unknown	*1.72*	*T J*	*ug/L*		*5.47*	*N/A*	*03/03/25 13:44*	*03/04/25 20:52*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*25 - 144*	*03/03/25 13:44*	*03/04/25 20:52*	*1*
2-Fluorobiphenyl	*70*		*53 - 126*	*03/03/25 13:44*	*03/04/25 20:52*	*1*
2-Fluorophenol	*50*		*24 - 120*	*03/03/25 13:44*	*03/04/25 20:52*	*1*
Nitrobenzene-d5	*67*		*29 - 129*	*03/03/25 13:44*	*03/04/25 20:52*	*1*
p-Terphenyl-d14	*98*		*33 - 132*	*03/03/25 13:44*	*03/04/25 20:52*	*1*
Phenol-d5	*33*		*10 - 120*	*03/03/25 13:44*	*03/04/25 20:52*	*1*

Lab Sample ID: LCS 480-739963/2-A
Matrix: Water
Analysis Batch: 740003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	32.0	22.9		ug/L		71	59 - 120
bis (2-chloroisopropyl) ether	32.0	20.2		ug/L		63	21 - 136
2,4,5-Trichlorophenol	32.0	26.7		ug/L		84	65 - 126
2,4,6-Trichlorophenol	32.0	25.2		ug/L		79	64 - 120
2,4-Dichlorophenol	32.0	23.6		ug/L		74	63 - 120
2,4-Dimethylphenol	32.0	24.4		ug/L		76	47 - 120
2,4-Dinitrophenol	64.0	67.4		ug/L		105	31 - 137
2,4-Dinitrotoluene	32.0	28.5		ug/L		89	69 - 120
2,6-Dinitrotoluene	32.0	27.8		ug/L		87	68 - 120
2-Chloronaphthalene	32.0	21.9		ug/L		68	58 - 120
2-Chlorophenol	32.0	21.4		ug/L		67	48 - 120
2-Methylnaphthalene	32.0	21.7		ug/L		68	59 - 120
2-Methylphenol	32.0	20.7		ug/L		65	39 - 120
2-Nitroaniline	32.0	25.5		ug/L		80	54 - 127
2-Nitrophenol	32.0	25.0		ug/L		78	52 - 125
3,3'-Dichlorobenzidine	32.0	22.7		ug/L		71	49 - 135
3-Nitroaniline	32.0	19.4		ug/L		61	51 - 120
4,6-Dinitro-2-methylphenol	64.0	71.0		ug/L		111	46 - 136
4-Bromophenyl phenyl ether	32.0	25.3		ug/L		79	65 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-739963/2-A
Matrix: Water
Analysis Batch: 740003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloro-3-methylphenol	32.0	25.5		ug/L		80	61 - 123
4-Chloroaniline	32.0	15.8		ug/L		50	30 - 120
4-Chlorophenyl phenyl ether	32.0	23.5		ug/L		73	62 - 120
4-Methylphenol	32.0	20.2		ug/L		63	29 - 131
4-Nitroaniline	32.0	29.0		ug/L		91	65 - 120
4-Nitrophenol	64.0	35.3		ug/L		55	45 - 120
Acenaphthene	32.0	24.9		ug/L		78	60 - 120
Acenaphthylene	32.0	25.9		ug/L		81	63 - 120
Acetophenone	32.0	23.7		ug/L		74	45 - 120
Anthracene	32.0	29.4		ug/L		92	67 - 120
Atrazine	32.0	36.6		ug/L		114	71 - 130
Benzaldehyde	32.0	23.9		ug/L		75	10 - 140
Benzo(a)anthracene	32.0	30.1		ug/L		94	70 - 121
Benzo(a)pyrene	32.0	29.6		ug/L		92	60 - 123
Benzo(b)fluoranthene	32.0	31.7		ug/L		99	66 - 126
Benzo(g,h,i)perylene	32.0	30.0		ug/L		94	66 - 150
Benzo(k)fluoranthene	32.0	32.3		ug/L		101	65 - 124
Bis(2-chloroethoxy)methane	32.0	23.9		ug/L		75	50 - 128
Bis(2-chloroethyl)ether	32.0	26.5		ug/L		83	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	29.6		ug/L		93	63 - 139
Butyl benzyl phthalate	32.0	30.9		ug/L		96	70 - 129
Caprolactam	32.0	8.87		ug/L		28	22 - 120
Carbazole	32.0	32.3		ug/L		101	66 - 123
Chrysene	32.0	29.8		ug/L		93	69 - 120
Di-n-butyl phthalate	32.0	30.7		ug/L		96	69 - 131
Di-n-octyl phthalate	32.0	29.7		ug/L		93	63 - 140
Dibenz(a,h)anthracene	32.0	29.6		ug/L		92	65 - 135
Dibenzofuran	32.0	24.7		ug/L		77	66 - 120
Diethyl phthalate	32.0	30.1		ug/L		94	59 - 127
Dimethyl phthalate	32.0	28.3		ug/L		89	68 - 120
Fluoranthene	32.0	30.5		ug/L		95	69 - 126
Fluorene	32.0	26.8		ug/L		84	66 - 120
Hexachlorobenzene	32.0	26.7		ug/L		83	61 - 120
Hexachlorobutadiene	32.0	15.5		ug/L		48	35 - 120
Hexachlorocyclopentadiene	32.0	12.9		ug/L		40	31 - 120
Hexachloroethane	32.0	17.3		ug/L		54	33 - 120
Indeno(1,2,3-cd)pyrene	32.0	30.1		ug/L		94	69 - 146
Isophorone	32.0	24.6		ug/L		77	55 - 120
N-Nitrosodi-n-propylamine	32.0	23.8		ug/L		74	32 - 140
N-Nitrosodiphenylamine	32.0	28.5		ug/L		89	61 - 120
Naphthalene	32.0	22.1		ug/L		69	57 - 120
Nitrobenzene	32.0	23.4		ug/L		73	53 - 123
Pentachlorophenol	64.0	53.0		ug/L		83	10 - 136
Phenanthrene	32.0	28.5		ug/L		89	68 - 120
Phenol	32.0	12.3		ug/L		38	17 - 120
Pyrene	32.0	30.9		ug/L		97	70 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-739963/2-A
Matrix: Water
Analysis Batch: 740003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739963

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	84		25 - 144
2-Fluorobiphenyl	76		53 - 126
2-Fluorophenol	51		24 - 120
Nitrobenzene-d5	72		29 - 129
p-Terphenyl-d14	87		33 - 132
Phenol-d5	38		10 - 120

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 740003

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	ND		32.0	25.9		ug/L		81	57 - 120
bis (2-chloroisopropyl) ether	ND		32.0	21.0		ug/L		66	28 - 121
2,4,5-Trichlorophenol	ND		32.0	29.9		ug/L		93	65 - 126
2,4,6-Trichlorophenol	ND		32.0	28.6		ug/L		89	64 - 120
2,4-Dichlorophenol	ND		32.0	25.9		ug/L		81	48 - 132
2,4-Dimethylphenol	ND		32.0	25.8		ug/L		81	39 - 130
2,4-Dinitrophenol	ND		64.0	83.1		ug/L		130	21 - 150
2,4-Dinitrotoluene	ND		32.0	31.7		ug/L		99	54 - 138
2,6-Dinitrotoluene	ND		32.0	30.4		ug/L		95	17 - 150
2-Chloronaphthalene	ND		32.0	24.8		ug/L		78	52 - 124
2-Chlorophenol	ND		32.0	22.5		ug/L		70	48 - 120
2-Methylnaphthalene	ND		32.0	24.0		ug/L		75	34 - 140
2-Methylphenol	ND		32.0	21.7		ug/L		68	46 - 120
2-Nitroaniline	ND		32.0	29.0		ug/L		91	44 - 136
2-Nitrophenol	ND		32.0	26.6		ug/L		83	38 - 141
3,3'-Dichlorobenzidine	ND	F2	32.0	24.1		ug/L		75	10 - 150
3-Nitroaniline	ND		32.0	21.8		ug/L		68	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	81.2		ug/L		127	38 - 150
4-Bromophenyl phenyl ether	ND		32.0	29.1		ug/L		91	63 - 126
4-Chloro-3-methylphenol	ND		32.0	28.3		ug/L		88	64 - 127
4-Chloroaniline	ND		32.0	16.9		ug/L		53	16 - 124
4-Chlorophenyl phenyl ether	ND		32.0	27.3		ug/L		85	61 - 120
4-Methylphenol	ND		32.0	21.4		ug/L		67	36 - 120
4-Nitroaniline	ND		32.0	31.3		ug/L		98	32 - 150
4-Nitrophenol	ND		64.0	36.8		ug/L		58	23 - 132
Acenaphthene	ND		32.0	28.4		ug/L		89	48 - 120
Acenaphthylene	ND		32.0	29.0		ug/L		91	63 - 120
Acetophenone	ND		32.0	24.8		ug/L		77	53 - 120
Anthracene	ND		32.0	32.5		ug/L		101	65 - 122
Atrazine	ND		32.0	40.5		ug/L		127	50 - 150
Benzaldehyde	ND		32.0	24.7		ug/L		77	10 - 150
Benzo(a)anthracene	ND		32.0	31.3		ug/L		98	43 - 124
Benzo(a)pyrene	ND		32.0	29.3		ug/L		92	23 - 125
Benzo(b)fluoranthene	ND		32.0	31.4		ug/L		98	27 - 127
Benzo(g,h,i)perylene	ND		32.0	28.7		ug/L		90	16 - 147
Benzo(k)fluoranthene	ND		32.0	31.5		ug/L		98	20 - 124

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 740003

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethoxy)methane	ND		32.0	25.4		ug/L		79	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	27.3		ug/L		85	45 - 120
Bis(2-ethylhexyl) phthalate	ND		32.0	30.1		ug/L		94	16 - 150
Butyl benzyl phthalate	ND		32.0	33.7		ug/L		105	51 - 140
Caprolactam	ND		32.0	8.93		ug/L		28	10 - 120
Carbazole	ND		32.0	37.0		ug/L		116	16 - 148
Chrysene	ND		32.0	30.3		ug/L		95	44 - 122
Di-n-butyl phthalate	ND		32.0	33.6		ug/L		105	65 - 129
Di-n-octyl phthalate	ND		32.0	29.6		ug/L		93	16 - 150
Dibenz(a,h)anthracene	ND		32.0	28.2		ug/L		88	16 - 139
Dibenzofuran	ND		32.0	27.8		ug/L		87	60 - 120
Diethyl phthalate	ND		32.0	32.8		ug/L		103	53 - 133
Dimethyl phthalate	ND		32.0	31.0		ug/L		97	59 - 123
Fluoranthene	ND		32.0	33.4		ug/L		104	63 - 129
Fluorene	ND		32.0	30.0		ug/L		94	62 - 120
Hexachlorobenzene	ND		32.0	30.1		ug/L		94	57 - 121
Hexachlorobutadiene	ND		32.0	16.9		ug/L		53	37 - 120
Hexachlorocyclopentadiene	ND		32.0	15.5		ug/L		48	21 - 120
Hexachloroethane	ND		32.0	18.7		ug/L		58	16 - 130
Indeno(1,2,3-cd)pyrene	ND		32.0	28.6		ug/L		89	16 - 140
Isophorone	ND		32.0	26.6		ug/L		83	48 - 133
N-Nitrosodi-n-propylamine	ND		32.0	25.5		ug/L		80	49 - 120
N-Nitrosodiphenylamine	ND	F2	32.0	31.0		ug/L		97	39 - 138
Naphthalene	ND		32.0	23.6		ug/L		74	45 - 120
Nitrobenzene	ND		32.0	24.8		ug/L		77	45 - 123
Pentachlorophenol	ND		64.0	59.7		ug/L		93	10 - 149
Phenanthrene	ND		32.0	31.2		ug/L		97	65 - 122
Phenol	ND		32.0	12.4		ug/L		39	16 - 120
Pyrene	ND		32.0	34.1		ug/L		106	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*95*		*25 - 144*
2-Fluorobiphenyl	*83*		*53 - 126*
2-Fluorophenol	*50*		*24 - 120*
Nitrobenzene-d5	*75*		*29 - 129*
p-Terphenyl-d14	*80*		*33 - 132*
Phenol-d5	*38*		*10 - 120*

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 740003

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Biphenyl	ND		32.0	22.7		ug/L		71	57 - 120	13	20
bis (2-chloroisopropyl) ether	ND		32.0	20.4		ug/L		64	28 - 121	3	24
2,4,5-Trichlorophenol	ND		32.0	25.8		ug/L		81	65 - 126	15	18
2,4,6-Trichlorophenol	ND		32.0	23.9		ug/L		75	64 - 120	18	19
2,4-Dichlorophenol	ND		32.0	22.5		ug/L		70	48 - 132	14	19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 740003

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dimethylphenol	ND		32.0	21.0		ug/L		66	39 - 130	20	42
2,4-Dinitrophenol	ND		64.0	77.0		ug/L		120	21 - 150	8	22
2,4-Dinitrotoluene	ND		32.0	29.2		ug/L		91	54 - 138	8	20
2,6-Dinitrotoluene	ND		32.0	27.7		ug/L		87	17 - 150	9	15
2-Chloronaphthalene	ND		32.0	21.7		ug/L		68	52 - 124	13	21
2-Chlorophenol	ND		32.0	21.2		ug/L		66	48 - 120	6	25
2-Methylnaphthalene	ND		32.0	21.7		ug/L		68	34 - 140	10	21
2-Methylphenol	ND		32.0	19.6		ug/L		61	46 - 120	10	27
2-Nitroaniline	ND		32.0	24.9		ug/L		78	44 - 136	15	15
2-Nitrophenol	ND		32.0	24.6		ug/L		77	38 - 141	8	18
3,3'-Dichlorobenzidine	ND	F2	32.0	17.4	F2	ug/L		54	10 - 150	32	25
3-Nitroaniline	ND		32.0	18.2		ug/L		57	32 - 150	18	19
4,6-Dinitro-2-methylphenol	ND		64.0	77.7		ug/L		121	38 - 150	4	15
4-Bromophenyl phenyl ether	ND		32.0	26.7		ug/L		83	63 - 126	9	15
4-Chloro-3-methylphenol	ND		32.0	24.0		ug/L		75	64 - 127	16	27
4-Chloroaniline	ND		32.0	14.8		ug/L		46	16 - 124	13	22
4-Chlorophenyl phenyl ether	ND		32.0	23.7		ug/L		74	61 - 120	14	16
4-Methylphenol	ND		32.0	19.4		ug/L		61	36 - 120	10	24
4-Nitroaniline	ND		32.0	27.8		ug/L		87	32 - 150	12	24
4-Nitrophenol	ND		64.0	46.2		ug/L		72	23 - 132	23	48
Acenaphthene	ND		32.0	24.5		ug/L		77	48 - 120	15	24
Acenaphthylene	ND		32.0	25.2		ug/L		79	63 - 120	14	18
Acetophenone	ND		32.0	24.3		ug/L		76	53 - 120	2	20
Anthracene	ND		32.0	29.7		ug/L		93	65 - 122	9	15
Atrazine	ND		32.0	39.3		ug/L		123	50 - 150	3	20
Benzaldehyde	ND		32.0	24.2		ug/L		75	10 - 150	2	20
Benzo(a)anthracene	ND		32.0	29.9		ug/L		93	43 - 124	5	15
Benzo(a)pyrene	ND		32.0	28.3		ug/L		88	23 - 125	4	15
Benzo(b)fluoranthene	ND		32.0	30.8		ug/L		96	27 - 127	2	15
Benzo(g,h,i)perylene	ND		32.0	28.2		ug/L		88	16 - 147	2	15
Benzo(k)fluoranthene	ND		32.0	31.0		ug/L		97	20 - 124	2	22
Bis(2-chloroethoxy)methane	ND		32.0	23.3		ug/L		73	44 - 128	9	17
Bis(2-chloroethyl)ether	ND		32.0	26.6		ug/L		83	45 - 120	2	21
Bis(2-ethylhexyl) phthalate	ND		32.0	29.0		ug/L		91	16 - 150	4	15
Butyl benzyl phthalate	ND		32.0	32.4		ug/L		101	51 - 140	4	16
Caprolactam	ND		32.0	8.59		ug/L		27	10 - 120	4	20
Carbazole	ND		32.0	34.8		ug/L		109	16 - 148	6	20
Chrysene	ND		32.0	29.4		ug/L		92	44 - 122	3	15
Di-n-butyl phthalate	ND		32.0	32.6		ug/L		102	65 - 129	3	15
Di-n-octyl phthalate	ND		32.0	28.6		ug/L		89	16 - 150	4	16
Dibenz(a,h)anthracene	ND		32.0	28.0		ug/L		88	16 - 139	1	15
Dibenzofuran	ND		32.0	23.9		ug/L		75	60 - 120	15	15
Diethyl phthalate	ND		32.0	31.0		ug/L		97	53 - 133	6	15
Dimethyl phthalate	ND		32.0	28.2		ug/L		88	59 - 123	9	15
Fluoranthene	ND		32.0	32.2		ug/L		101	63 - 129	3	15
Fluorene	ND		32.0	26.6		ug/L		83	62 - 120	12	15
Hexachlorobenzene	ND		32.0	28.6		ug/L		89	57 - 121	5	15
Hexachlorobutadiene	ND		32.0	16.4		ug/L		51	37 - 120	3	44
Hexachlorocyclopentadiene	ND		32.0	14.6		ug/L		46	21 - 120	6	49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 740003

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachloroethane	ND		32.0	18.6		ug/L		58	16 - 130	1	46
Indeno(1,2,3-cd)pyrene	ND		32.0	28.6		ug/L		89	16 - 140	0	15
Isophorone	ND		32.0	23.8		ug/L		74	48 - 133	11	17
N-Nitrosodi-n-propylamine	ND		32.0	23.4		ug/L		73	49 - 120	8	31
N-Nitrosodiphenylamine	ND	F2	32.0	24.4	F2	ug/L		76	39 - 138	24	15
Naphthalene	ND		32.0	21.9		ug/L		68	45 - 120	8	29
Nitrobenzene	ND		32.0	23.6		ug/L		74	45 - 123	5	24
Pentachlorophenol	ND		64.0	58.3		ug/L		91	10 - 149	2	37
Phenanthrene	ND		32.0	30.0		ug/L		94	65 - 122	4	15
Phenol	ND		32.0	11.7		ug/L		36	16 - 120	6	34
Pyrene	ND		32.0	32.2		ug/L		101	58 - 128	6	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*86*		*25 - 144*
2-Fluorobiphenyl	*73*		*53 - 126*
2-Fluorophenol	*49*		*24 - 120*
Nitrobenzene-d5	*71*		*29 - 129*
p-Terphenyl-d14	*79*		*33 - 132*
Phenol-d5	*36*		*10 - 120*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-739939/1-A
Matrix: Water
Analysis Batch: 739998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.200		0.20	0.10	ug/L		03/03/25 10:06	03/04/25 12:20	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*34*		*15 - 110*	*03/03/25 10:06*	*03/04/25 12:20*	*1*

Lab Sample ID: LCS 480-739939/2-A
Matrix: Water
Analysis Batch: 739998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.00	2.39		ug/L		119	40 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*32*		*15 - 110*

Lab Sample ID: MB 480-740178/1-A
Matrix: Water
Analysis Batch: 740218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 740178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.130	J	0.20	0.10	ug/L		03/06/25 06:41	03/06/25 13:14	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110	03/06/25 06:41	03/06/25 13:14	1

Lab Sample ID: LCS 480-740178/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 740218 — **Prep Batch: 740178**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.00	2.22		ug/L		111	40 - 140

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8	36		15 - 110

Lab Sample ID: 480-227586-2 MS — **Client Sample ID: MW-2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 740218 — **Prep Batch: 740178**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	0.17	J B	2.00	2.26		ug/L		105	40 - 140

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
1,4-Dioxane-d8	32		15 - 110

Lab Sample ID: 480-227586-2 MSD — **Client Sample ID: MW-2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 740218 — **Prep Batch: 740178**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	0.17	J B	2.00	2.27		ug/L		105	40 - 140	0	20

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
1,4-Dioxane-d8	31		15 - 110

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-740242/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 740373 — **Prep Batch: 740242**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		03/06/25 13:42	03/10/25 10:16	1
4,4'-DDE	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 10:16	1
4,4'-DDT	0.0303	J	0.050	0.011	ug/L		03/06/25 13:42	03/10/25 10:16	1
Aldrin	ND		0.050	0.0081	ug/L		03/06/25 13:42	03/10/25 10:16	1
alpha-BHC	ND		0.050	0.0077	ug/L		03/06/25 13:42	03/10/25 10:16	1
cis-Chlordane	ND		0.050	0.015	ug/L		03/06/25 13:42	03/10/25 10:16	1
beta-BHC	ND		0.050	0.025	ug/L		03/06/25 13:42	03/10/25 10:16	1
delta-BHC	ND		0.050	0.010	ug/L		03/06/25 13:42	03/10/25 10:16	1
Dieldrin	ND		0.050	0.0098	ug/L		03/06/25 13:42	03/10/25 10:16	1
Endosulfan I	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 10:16	1
Endosulfan II	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 10:16	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 10:16	1
Endrin	ND		0.050	0.014	ug/L		03/06/25 13:42	03/10/25 10:16	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-740242/1-A
Matrix: Water
Analysis Batch: 740373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 740242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.050	0.016	ug/L		03/06/25 13:42	03/10/25 10:16	1
Endrin ketone	ND		0.050	0.012	ug/L		03/06/25 13:42	03/10/25 10:16	1
gamma-BHC (Lindane)	0.0102	J	0.050	0.0080	ug/L		03/06/25 13:42	03/10/25 10:16	1
trans-Chlordane	ND		0.050	0.011	ug/L		03/06/25 13:42	03/10/25 10:16	1
Heptachlor	ND		0.050	0.0085	ug/L		03/06/25 13:42	03/10/25 10:16	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		03/06/25 13:42	03/10/25 10:16	1
Methoxychlor	0.0304	J	0.050	0.014	ug/L		03/06/25 13:42	03/10/25 10:16	1
Toxaphene	ND		0.50	0.12	ug/L		03/06/25 13:42	03/10/25 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*10 - 120*	*03/06/25 13:42*	*03/10/25 10:16*	*1*
DCB Decachlorobiphenyl	*90*		*10 - 120*	*03/06/25 13:42*	*03/10/25 10:16*	*1*
Tetrachloro-m-xylene	*84*		*10 - 120*	*03/06/25 13:42*	*03/10/25 10:16*	*1*
Tetrachloro-m-xylene	*78*		*10 - 120*	*03/06/25 13:42*	*03/10/25 10:16*	*1*

Lab Sample ID: LCS 480-740242/2-A
Matrix: Water
Analysis Batch: 740373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 740242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.400	0.379		ug/L		95	64 - 129
4,4'-DDE	0.400	0.322		ug/L		80	50 - 120
4,4'-DDT	0.400	0.409		ug/L		102	59 - 120
Aldrin	0.400	0.326		ug/L		81	40 - 125
alpha-BHC	0.400	0.304		ug/L		76	52 - 125
cis-Chlordane	0.400	0.292		ug/L		73	52 - 120
beta-BHC	0.400	0.375		ug/L		94	51 - 120
delta-BHC	0.400	0.361		ug/L		90	51 - 120
Dieldrin	0.400	0.388		ug/L		97	66 - 128
Endosulfan I	0.400	0.372		ug/L		93	57 - 120
Endosulfan II	0.400	0.408		ug/L		102	66 - 131
Endosulfan sulfate	0.400	0.395		ug/L		99	66 - 136
Endrin	0.400	0.391		ug/L		98	65 - 135
Endrin aldehyde	0.400	0.349		ug/L		87	61 - 134
Endrin ketone	0.400	0.410		ug/L		102	71 - 133
gamma-BHC (Lindane)	0.400	0.344		ug/L		86	56 - 120
trans-Chlordane	0.400	0.324		ug/L		81	54 - 120
Heptachlor	0.400	0.362		ug/L		91	58 - 120
Heptachlor epoxide	0.400	0.384		ug/L		96	65 - 125
Methoxychlor	0.400	0.460		ug/L		115	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*10 - 120*
DCB Decachlorobiphenyl	*56*		*10 - 120*
Tetrachloro-m-xylene	*75*		*10 - 120*
Tetrachloro-m-xylene	*75*		*10 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 740373

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 740242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	ND		0.400	0.392		ug/L		98	57 - 130
4,4'-DDE	ND		0.400	0.320		ug/L		80	39 - 120
4,4'-DDT	0.030	J B	0.400	0.432		ug/L		101	37 - 130
Aldrin	ND		0.400	0.308		ug/L		77	39 - 125
alpha-BHC	ND		0.400	0.304		ug/L		76	48 - 120
cis-Chlordane	ND		0.400	0.269		ug/L		67	44 - 120
beta-BHC	ND		0.400	0.349		ug/L		87	49 - 120
delta-BHC	ND		0.400	0.370		ug/L		93	50 - 120
Dieldrin	ND		0.400	0.403		ug/L		101	56 - 130
Endosulfan I	ND		0.400	0.371		ug/L		93	40 - 126
Endosulfan II	ND		0.400	0.417		ug/L		104	59 - 140
Endosulfan sulfate	ND		0.400	0.416		ug/L		104	60 - 134
Endrin	ND		0.400	0.406		ug/L		102	54 - 135
Endrin aldehyde	ND		0.400	0.367		ug/L		92	50 - 142
Endrin ketone	ND		0.400	0.418		ug/L		105	57 - 138
gamma-BHC (Lindane)	ND		0.400	0.348		ug/L		87	50 - 120
trans-Chlordane	ND		0.400	0.292		ug/L		73	42 - 120
Heptachlor	ND		0.400	0.367		ug/L		92	56 - 120
Heptachlor epoxide	ND		0.400	0.402		ug/L		100	58 - 125
Methoxychlor	ND		0.400	0.481		ug/L		120	40 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*75*		*10 - 120*
DCB Decachlorobiphenyl	*64*		*10 - 120*
Tetrachloro-m-xylene	*72*		*10 - 120*
Tetrachloro-m-xylene	*71*		*10 - 120*

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 740373

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 740242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	ND		0.400	0.402		ug/L		100	57 - 130	2	23
4,4'-DDE	ND		0.400	0.322		ug/L		80	39 - 120	0	22
4,4'-DDT	0.030	J B	0.400	0.440		ug/L		102	37 - 130	2	24
Aldrin	ND		0.400	0.306		ug/L		77	39 - 125	1	25
alpha-BHC	ND		0.400	0.285		ug/L		71	48 - 120	6	24
cis-Chlordane	ND		0.400	0.282		ug/L		70	44 - 120	4	23
beta-BHC	ND		0.400	0.357		ug/L		89	49 - 120	2	24
delta-BHC	ND		0.400	0.393		ug/L		98	50 - 120	6	24
Dieldrin	ND		0.400	0.417		ug/L		104	56 - 130	3	24
Endosulfan I	ND		0.400	0.380		ug/L		95	40 - 126	2	30
Endosulfan II	ND		0.400	0.427		ug/L		107	59 - 140	2	40
Endosulfan sulfate	ND		0.400	0.434		ug/L		108	60 - 134	4	24
Endrin	ND		0.400	0.418		ug/L		104	54 - 135	3	24
Endrin aldehyde	ND		0.400	0.371		ug/L		93	50 - 142	1	28
Endrin ketone	ND		0.400	0.441		ug/L		110	57 - 138	5	26
gamma-BHC (Lindane)	ND		0.400	0.352		ug/L		88	50 - 120	1	24

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 740373

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 740242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-Chlordane	ND		0.400	0.313		ug/L		78	42 - 120	7	24
Heptachlor	ND		0.400	0.372		ug/L		93	56 - 120	1	25
Heptachlor epoxide	ND		0.400	0.408		ug/L		102	58 - 125	2	23
Methoxychlor	ND		0.400	0.509		ug/L		127	40 - 150	6	26

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*10 - 120*
DCB Decachlorobiphenyl	*54*		*10 - 120*
Tetrachloro-m-xylene	*79*		*10 - 120*
Tetrachloro-m-xylene	*72*		*10 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-739973/1-A
Matrix: Water
Analysis Batch: 739978

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 18:13	1
PCB-1221	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 18:13	1
PCB-1232	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 18:13	1
PCB-1242	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 18:13	1
PCB-1248	ND		0.50	0.18	ug/L		03/04/25 06:40	03/04/25 18:13	1
PCB-1254	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 18:13	1
PCB-1260	ND		0.50	0.25	ug/L		03/04/25 06:40	03/04/25 18:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*10 - 123*	*03/04/25 06:40*	*03/04/25 18:13*	*1*
DCB Decachlorobiphenyl	*89*		*10 - 123*	*03/04/25 06:40*	*03/04/25 18:13*	*1*
Tetrachloro-m-xylene	*65*		*10 - 145*	*03/04/25 06:40*	*03/04/25 18:13*	*1*
Tetrachloro-m-xylene	*71*		*10 - 145*	*03/04/25 06:40*	*03/04/25 18:13*	*1*

Lab Sample ID: LCS 480-739973/2-A
Matrix: Water
Analysis Batch: 739978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739973

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			4.00	3.57		ug/L		89	62 - 130		
PCB-1260			4.00	3.53		ug/L		88	56 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*86*		*10 - 123*
DCB Decachlorobiphenyl	*92*		*10 - 123*
Tetrachloro-m-xylene	*74*		*10 - 145*
Tetrachloro-m-xylene	*80*		*10 - 145*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 739978

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739973

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		4.00	3.40		ug/L		85	28 - 150
PCB-1260	ND		4.00	3.42		ug/L		86	25 - 131

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*10 - 123*
DCB Decachlorobiphenyl	*75*		*10 - 123*
Tetrachloro-m-xylene	*71*		*10 - 145*
Tetrachloro-m-xylene	*73*		*10 - 145*

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 739978

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739973

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		4.00	3.76		ug/L		94	28 - 150	10	50
PCB-1260	ND		4.00	3.08		ug/L		77	25 - 131	10	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*51*		*10 - 123*
DCB Decachlorobiphenyl	*57*		*10 - 123*
Tetrachloro-m-xylene	*78*		*10 - 145*
Tetrachloro-m-xylene	*80*		*10 - 145*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-739997/1-A
Matrix: Water
Analysis Batch: 740110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		03/04/25 09:32	03/05/25 11:01	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		03/04/25 09:32	03/05/25 11:01	1
2,4-D	ND		0.50	0.17	ug/L		03/04/25 09:32	03/05/25 11:01	1
Dichlorprop	ND		0.50	0.12	ug/L		03/04/25 09:32	03/05/25 11:01	1
Pentachlorophenol	ND		0.50	0.049	ug/L		03/04/25 09:32	03/05/25 11:01	1
Picloram	ND		0.50	0.072	ug/L		03/04/25 09:32	03/05/25 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*21 - 143*	*03/04/25 09:32*	*03/05/25 11:01*	*1*
2,4-Dichlorophenylacetic acid	*71*		*21 - 143*	*03/04/25 09:32*	*03/05/25 11:01*	*1*

Lab Sample ID: LCS 480-739997/2-A
Matrix: Water
Analysis Batch: 740110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	2.00	1.57		ug/L		78	41 - 150
Silvex (2,4,5-TP)	2.00	1.60		ug/L		80	49 - 150

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 480-739997/2-A
Matrix: Water
Analysis Batch: 740110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	2.00	1.71		ug/L		85	36 - 150
Dichlorprop	2.00	1.83		ug/L		91	33 - 150
Pentachlorophenol	2.00	1.46		ug/L		73	29 - 143
Picloram	2.00	1.70		ug/L		85	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*92*		*21 - 143*
2,4-Dichlorophenylacetic acid	*79*		*21 - 143*

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 740110

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	ND		1.90	1.52		ug/L		80	34 - 138
Silvex (2,4,5-TP)	ND		1.90	1.55		ug/L		81	25 - 146
2,4-D	ND		1.90	1.66		ug/L		87	31 - 150
Dichlorprop	ND		1.90	1.71		ug/L		90	26 - 150
Pentachlorophenol	ND		1.90	1.13		ug/L		59	27 - 122
Picloram	ND		1.90	1.61		ug/L		84	33 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*96*		*21 - 143*
2,4-Dichlorophenylacetic acid	*134*		*21 - 143*

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 740110

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	ND		1.90	1.37		ug/L		72	34 - 138	10	50
Silvex (2,4,5-TP)	ND		1.90	1.40		ug/L		74	25 - 146	10	50
2,4-D	ND		1.90	1.53		ug/L		80	31 - 150	8	50
Dichlorprop	ND		1.90	1.50		ug/L		79	26 - 150	13	50
Pentachlorophenol	ND		1.90	1.11		ug/L		58	27 - 122	2	50
Picloram	ND		1.90	1.45		ug/L		76	33 - 150	10	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*73*		*21 - 143*
2,4-Dichlorophenylacetic acid	*96*		*21 - 143*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-647079/1-A
Matrix: Water
Analysis Batch: 647184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		8.0	2.1	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluoropentanoic acid (PFPeA)	ND		4.0	1.0	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.52	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		8.0	2.0	ng/L		03/06/25 09:19	03/06/25 20:56	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		8.0	2.0	ng/L		03/06/25 09:19	03/06/25 20:56	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		8.0	2.0	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.62	ng/L		03/06/25 09:19	03/06/25 20:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.52	ng/L		03/06/25 09:19	03/06/25 20:56	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		20	5.0	ng/L		03/06/25 09:19	03/06/25 20:56	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		20	5.0	ng/L		03/06/25 09:19	03/06/25 20:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		8.0	2.0	ng/L		03/06/25 09:19	03/06/25 20:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.0	2.0	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		4.0	1.0	ng/L		03/06/25 09:19	03/06/25 20:56	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		4.0	1.2	ng/L		03/06/25 09:19	03/06/25 20:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		8.0	2.0	ng/L		03/06/25 09:19	03/06/25 20:56	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		8.0	2.0	ng/L		03/06/25 09:19	03/06/25 20:56	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-647079/1-A
Matrix: Water
Analysis Batch: 647184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		4.0	1.0	ng/L		03/06/25 09:19	03/06/25 20:56	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		10	2.5	ng/L		03/06/25 09:19	03/06/25 20:56	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		50	13	ng/L		03/06/25 09:19	03/06/25 20:56	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		50	15	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		03/06/25 09:19	03/06/25 20:56	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		4.0	1.0	ng/L		03/06/25 09:19	03/06/25 20:56	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95.9*		*10 - 130*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C5 PFPeA	*96.7*		*35 - 150*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C5 PFHxA	*99.8*		*55 - 150*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C4 PFHpA	*102*		*55 - 150*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C8 PFOA	*90.2*		*60 - 140*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C9 PFNA	*85.8*		*55 - 140*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C6 PFDA	*88.3*		*50 - 140*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C7 PFUnA	*87.8*		*30 - 140*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C2 PFTeDA	*80.0*		*10 - 130*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C3 PFBS	*98.4*		*55 - 150*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C3 PFHxS	*91.3*		*55 - 150*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C8 PFOS	*96.9*		*45 - 140*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C8 PFOSA	*90.2*		*30 - 130*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
d3-NMeFOSAA	*86.6*		*45 - 200*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
d5-NEtFOSAA	*81.4*		*10 - 200*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
M2-4:2 FTS	*98.4*		*60 - 200*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
M2-6:2 FTS	*99.3*		*60 - 200*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
M2-8:2 FTS	*93.3*		*50 - 200*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C3 HFPO-DA	*103*		*25 - 160*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
d7-N-MeFOSE-M	*82.7*		*10 - 150*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
d9-N-EtFOSE-M	*66.3*		*10 - 150*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
d5-NEtPFOSA	*65.5*		*10 - 130*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
D3-NMeFOSA	*74.6*		*15 - 130*	*03/06/25 09:19*	*03/06/25 20:56*	*1*
13C2-PFDoDA	*78.0*		*10 - 150*	*03/06/25 09:19*	*03/06/25 20:56*	*1*

Lab Sample ID: LCS 240-647079/3-A
Matrix: Water
Analysis Batch: 647184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	100	114		ng/L		114	58 - 148
Perfluoropentanoic acid (PFPeA)	50.0	58.7		ng/L		117	54 - 152
Perfluorohexanoic acid (PFHxA)	25.0	28.2		ng/L		113	55 - 152
Perfluoroheptanoic acid (PFHpA)	25.0	25.6		ng/L		102	54 - 154
Perfluorooctanoic acid (PFOA)	25.0	27.2		ng/L		109	52 - 161
Perfluorononanoic acid (PFNA)	25.0	30.0		ng/L		120	59 - 149
Perfluorodecanoic acid (PFDA)	25.0	30.7		ng/L		123	52 - 147

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-647079/3-A
Matrix: Water
Analysis Batch: 647184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	25.0	29.2		ng/L		117	48 - 159
Perfluorododecanoic acid (PFDoA)	25.0	32.4		ng/L		129	64 - 142
Perfluorotridecanoic acid (PFTrDA)	25.0	28.7		ng/L		115	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	25.0	28.6		ng/L		115	47 - 161
Perfluorobutanesulfonic acid (PFBS)	22.2	25.3		ng/L		114	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	23.5	27.8		ng/L		118	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	22.8	26.0		ng/L		114	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	23.9	26.2		ng/L		110	55 - 152
Perfluorooctanesulfonic acid (PFOS)	23.3	24.5		ng/L		105	58 - 149
Perfluorononanesulfonic acid (PFNS)	24.1	25.2		ng/L		105	52 - 148
Perfluorododecanesulfonic acid (PFDoS)	24.3	25.5		ng/L		105	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	93.8	107		ng/L		114	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	95.2	96.1		ng/L		101	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	96.0	109		ng/L		113	63 - 152
Perfluorooctanesulfonamide (PFOSA)	25.0	27.8		ng/L		111	61 - 148
N-methylperfluorooctane sulfonamide (NMeFOSA)	25.0	29.7		ng/L		119	63 - 145
N-ethylperfluorooctane sulfonamide (NEtFOSA)	25.0	31.3		ng/L		125	65 - 139
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.0	28.4		ng/L		114	58 - 144
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.0	27.9		ng/L		112	59 - 146
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	250	265		ng/L		106	71 - 136
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	250	283		ng/L		113	69 - 137
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	111		ng/L		111	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.6	108		ng/L		114	68 - 146
Perfluoro-4-methoxybutanoic acid (PFMBA)	50.0	56.7		ng/L		113	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50.0	61.1		ng/L		122	48 - 161
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	93.4	108		ng/L		115	56 - 156
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	94.4	105		ng/L		111	46 - 156

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-647079/3-A
Matrix: Water
Analysis Batch: 647184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44.6	52.9		ng/L		119	56 - 151
3-Perfluoropropylpropanoic acid (3:3 FTCA)	125	141		ng/L		113	62 - 129
3-Perfluoropentylpropanoic acid (5:3 FTCA)	625	692		ng/L		111	63 - 134
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	625	625		ng/L		100	50 - 138
Perfluorodecanesulfonic acid (PFDS)	24.1	24.4		ng/L		101	51 - 147
Perfluoro-3-methoxypropanoic acid (PFMPA)	50.0	57.8		ng/L		116	51 - 145

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*102*		*10 - 130*
13C5 PFPeA	*96.0*		*40 - 150*
13C5 PFHxA	*93.0*		*40 - 150*
13C4 PFHpA	*99.9*		*40 - 150*
13C8 PFOA	*96.8*		*30 - 140*
13C9 PFNA	*88.1*		*30 - 140*
13C6 PFDA	*88.0*		*20 - 140*
13C7 PFUnA	*92.4*		*20 - 140*
13C2 PFTeDA	*88.0*		*10 - 130*
13C3 PFBS	*96.4*		*25 - 150*
13C3 PFHxS	*89.1*		*25 - 150*
13C8 PFOS	*102*		*20 - 140*
13C8 PFOSA	*98.4*		*10 - 130*
d3-NMeFOSAA	*90.1*		*10 - 200*
d5-NEtFOSAA	*88.2*		*10 - 200*
M2-4:2 FTS	*91.4*		*25 - 200*
M2-6:2 FTS	*101*		*25 - 200*
M2-8:2 FTS	*91.9*		*25 - 200*
13C3 HFPO-DA	*96.7*		*25 - 160*
d7-N-MeFOSE-M	*89.4*		*10 - 150*
d9-N-EtFOSE-M	*69.1*		*10 - 150*
d5-NEtPFOSA	*68.6*		*10 - 130*
D3-NMeFOSA	*84.8*		*10 - 130*
13C2-PFDoDA	*82.6*		*10 - 150*

Lab Sample ID: LLCS 240-647079/2-A
Matrix: Water
Analysis Batch: 647184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	9.03		ng/L		113	44 - 157
Perfluoropentanoic acid (PFPeA)	4.00	4.65		ng/L		116	57 - 148
Perfluorohexanoic acid (PFHxA)	2.00	2.42		ng/L		121	62 - 149
Perfluoroheptanoic acid (PFHpA)	2.00	2.16		ng/L		108	56 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.23		ng/L		112	57 - 161
Perfluorononanoic acid (PFNA)	2.00	2.35		ng/L		117	53 - 157

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-647079/2-A
Matrix: Water
Analysis Batch: 647184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanoic acid (PFDA)	2.00	2.26		ng/L		113	43 - 158
Perfluoroundecanoic acid (PFUnA)	2.00	2.39		ng/L		120	50 - 155
Perfluorododecanoic acid (PFDoA)	2.00	2.52		ng/L		126	60 - 141
Perfluorotridecanoic acid (PFTrDA)	2.00	2.27		ng/L		114	52 - 140
Perfluorotetradecanoic acid (PFTeDA)	2.00	2.17		ng/L		108	52 - 156
Perfluorobutanesulfonic acid (PFBS)	1.78	1.89	J	ng/L		107	63 - 145
Perfluoropentanesulfonic acid (PFPeS)	1.88	2.21		ng/L		117	58 - 144
Perfluorohexanesulfonic acid (PFHxS)	1.82	2.13		ng/L		117	44 - 158
Perfluoroheptanesulfonic acid (PFHpS)	1.91	2.07		ng/L		109	51 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	2.02		ng/L		108	43 - 162
Perfluorononanesulfonic acid (PFNS)	1.92	1.95	J	ng/L		101	46 - 151
Perfluorododecanesulfonic acid (PFDoS)	1.94	1.92	J	ng/L		99	30 - 138
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	8.97		ng/L		120	52 - 158
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	8.07		ng/L		106	48 - 158
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	8.03		ng/L		105	46 - 165
Perfluorooctanesulfonamide (PFOSA)	2.00	2.19		ng/L		110	47 - 163
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.00	2.61		ng/L		131	54 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.00	2.60		ng/L		130	49 - 156
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.05		ng/L		102	32 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.12		ng/L		106	51 - 154
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	21.5		ng/L		107	56 - 151
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	22.2		ng/L		111	60 - 147
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.00	8.53		ng/L		107	58 - 154
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	8.58		ng/L		113	61 - 148
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.21		ng/L		105	49 - 154
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	5.04		ng/L		126	47 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	7.47	8.24		ng/L		110	44 - 167

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-647079/2-A
Matrix: Water
Analysis Batch: 647184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	7.55	8.12		ng/L		108	36 - 158
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	4.46		ng/L		125	56 - 144
3-Perfluoropropylpropanoic acid (3:3 FTCA)	10.0	11.0		ng/L		110	32 - 161
3-Perfluoropentylpropanoic acid (5:3 FTCA)	50.0	55.7		ng/L		111	39 - 156
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50.0	50.9		ng/L		102	36 - 149
Perfluorodecanesulfonic acid (PFDS)	1.93	1.94	J	ng/L		101	50 - 144
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.52		ng/L		113	48 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*101*		*10 - 130*
13C5 PFPeA	*103*		*40 - 150*
13C5 PFHxA	*93.7*		*40 - 150*
13C4 PFHpA	*106*		*40 - 150*
13C8 PFOA	*95.2*		*30 - 140*
13C9 PFNA	*84.2*		*30 - 140*
13C6 PFDA	*88.4*		*20 - 140*
13C7 PFUnA	*87.4*		*20 - 140*
13C2 PFTeDA	*81.5*		*10 - 130*
13C3 PFBS	*101*		*25 - 150*
13C3 PFHxS	*90.5*		*25 - 150*
13C8 PFOS	*99.4*		*20 - 140*
13C8 PFOSA	*96.0*		*10 - 130*
d3-NMeFOSAA	*89.6*		*10 - 200*
d5-NEtFOSAA	*87.9*		*10 - 200*
M2-4:2 FTS	*93.1*		*25 - 200*
M2-6:2 FTS	*97.2*		*25 - 200*
M2-8:2 FTS	*97.5*		*25 - 200*
13C3 HFPO-DA	*104*		*25 - 160*
d7-N-MeFOSE-M	*79.8*		*10 - 150*
d9-N-EtFOSE-M	*59.1*		*10 - 150*
d5-NEtPFOSA	*64.6*		*10 - 130*
D3-NMeFOSA	*75.3*		*10 - 130*
13C2-PFDoDA	*78.8*		*10 - 150*

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 647184

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	12		86.3	110		ng/L		113	58 - 148
Perfluoropentanoic acid (PFPeA)	15		43.2	63.2		ng/L		112	54 - 152
Perfluorohexanoic acid (PFHxA)	8.2		21.6	32.2		ng/L		111	55 - 152
Perfluoroheptanoic acid (PFHpA)	2.4		21.6	23.6		ng/L		98	54 - 154

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 647184

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	6.6		21.6	29.8		ng/L		107	52 - 161
Perfluorononanoic acid (PFNA)	ND		21.6	25.8		ng/L		119	59 - 149
Perfluorodecanoic acid (PFDA)	ND		21.6	26.3		ng/L		122	52 - 147
Perfluoroundecanoic acid (PFUnA)	ND		21.6	25.2		ng/L		117	48 - 159
Perfluorododecanoic acid (PFDoA)	ND		21.6	26.9		ng/L		125	64 - 142
Perfluorotridecanoic acid (PFTrDA)	ND		21.6	24.2		ng/L		112	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	ND		21.6	24.6		ng/L		114	47 - 161
Perfluorobutanesulfonic acid (PFBS)	2.0		19.2	21.4		ng/L		101	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	ND		20.3	23.7		ng/L		117	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	1.8		19.7	23.5		ng/L		110	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	ND		20.6	22.7		ng/L		110	55 - 152
Perfluorooctanesulfonic acid (PFOS)	0.95	J	20.1	21.9		ng/L		104	58 - 149
Perfluorononanesulfonic acid (PFNS)	ND		20.8	21.1		ng/L		101	52 - 148
Perfluorododecanesulfonic acid (PFDoS)	ND		20.9	21.7		ng/L		104	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		81.0	92.9		ng/L		115	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		82.2	84.0		ng/L		102	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		82.9	93.9		ng/L		113	63 - 152
Perfluorooctanesulfonamide (PFOSA)	ND		21.6	23.9		ng/L		111	61 - 148
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		21.6	24.4		ng/L		113	63 - 145
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		21.6	26.0		ng/L		121	65 - 139
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		21.6	24.5		ng/L		114	58 - 144
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		21.6	24.5		ng/L		114	59 - 146
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		216	229		ng/L		106	71 - 136
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		216	244		ng/L		113	69 - 137
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		86.3	97.1		ng/L		112	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		81.7	91.5		ng/L		112	68 - 146
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		43.2	48.1		ng/L		112	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		43.2	48.4		ng/L		112	48 - 161

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 647184

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		80.6	84.3		ng/L		105	56 - 156
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		81.5	80.3		ng/L		99	46 - 156
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		38.5	44.7		ng/L		116	56 - 151
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		108	122		ng/L		113	62 - 129
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		540	601		ng/L		111	63 - 134
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		540	538		ng/L		100	50 - 138
Perfluorodecanesulfonic acid (PFDS)	ND		20.8	21.3		ng/L		102	51 - 147
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		43.2	49.2		ng/L		114	51 - 145

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*101*		*10 - 130*
13C5 PFPeA	*94.0*		*35 - 150*
13C5 PFHxA	*89.2*		*55 - 150*
13C4 PFHpA	*97.3*		*55 - 150*
13C8 PFOA	*87.9*		*60 - 140*
13C9 PFNA	*83.1*		*55 - 140*
13C6 PFDA	*79.9*		*50 - 140*
13C7 PFUnA	*81.5*		*30 - 140*
13C2 PFTeDA	*78.3*		*10 - 130*
13C3 PFBS	*96.5*		*55 - 150*
13C3 PFHxS	*85.4*		*55 - 150*
13C8 PFOS	*89.6*		*45 - 140*
13C8 PFOSA	*86.6*		*30 - 130*
d3-NMeFOSAA	*78.1*		*45 - 200*
d5-NEtFOSAA	*75.2*		*10 - 200*
M2-4:2 FTS	*89.4*		*60 - 200*
M2-6:2 FTS	*97.2*		*60 - 200*
M2-8:2 FTS	*81.9*		*50 - 200*
13C3 HFPO-DA	*93.4*		*25 - 160*
d7-N-MeFOSE-M	*71.6*		*10 - 150*
d9-N-EtFOSE-M	*55.3*		*10 - 150*
d5-NEtPFOSA	*63.2*		*10 - 130*
D3-NMeFOSA	*80.8*		*15 - 130*
13C2-PFDoDA	*73.8*		*10 - 150*

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 647184

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	12		86.4	110		ng/L		113	58 - 148	0	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 647184

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	15		43.2	63.2		ng/L		112	54 - 152	0	30
Perfluorohexanoic acid (PFHxA)	8.2		21.6	32.7		ng/L		113	55 - 152	2	30
Perfluoroheptanoic acid (PFHpA)	2.4		21.6	24.0		ng/L		100	54 - 154	2	30
Perfluorooctanoic acid (PFOA)	6.6		21.6	31.4		ng/L		115	52 - 161	5	30
Perfluorononanoic acid (PFNA)	ND		21.6	25.3		ng/L		117	59 - 149	2	30
Perfluorodecanoic acid (PFDA)	ND		21.6	25.8		ng/L		119	52 - 147	2	30
Perfluoroundecanoic acid (PFUnA)	ND		21.6	25.7		ng/L		119	48 - 159	2	30
Perfluorododecanoic acid (PFDoA)	ND		21.6	28.7		ng/L		133	64 - 142	6	30
Perfluorotridecanoic acid (PFTrDA)	ND		21.6	24.5		ng/L		113	49 - 148	1	30
Perfluorotetradecanoic acid (PFTeDA)	ND		21.6	24.9		ng/L		115	47 - 161	1	30
Perfluorobutanesulfonic acid (PFBS)	2.0		19.2	23.0		ng/L		110	62 - 144	7	30
Perfluoropentanesulfonic acid (PFPeS)	ND		20.3	22.9		ng/L		113	59 - 151	3	30
Perfluorohexanesulfonic acid (PFHxS)	1.8		19.7	24.2		ng/L		114	57 - 146	3	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		20.6	22.4		ng/L		108	55 - 152	1	30
Perfluorooctanesulfonic acid (PFOS)	0.95	J	20.1	22.5		ng/L		107	58 - 149	3	30
Perfluorononanesulfonic acid (PFNS)	ND		20.8	21.1		ng/L		102	52 - 148	0	30
Perfluorododecanesulfonic acid (PFDoS)	ND		21.0	20.9		ng/L		100	36 - 145	4	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		81.1	91.7		ng/L		113	67 - 146	1	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		82.3	85.8		ng/L		104	61 - 151	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		83.0	92.3		ng/L		111	63 - 152	2	30
Perfluorooctanesulfonamide (PFOSA)	ND		21.6	24.4		ng/L		113	61 - 148	2	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		21.6	24.3		ng/L		113	63 - 145	0	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		21.6	27.0		ng/L		125	65 - 139	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		21.6	24.6		ng/L		114	58 - 144	0	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		21.6	23.3		ng/L		108	59 - 146	5	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		216	229		ng/L		106	71 - 136	0	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		216	251		ng/L		116	69 - 137	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		86.4	105		ng/L		122	63 - 144	8	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		81.8	99.8		ng/L		122	68 - 146	9	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		43.2	47.4		ng/L		110	55 - 148	1	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 647184

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		43.2	49.3		ng/L		114	48 - 161	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		80.7	99.1		ng/L		123	56 - 156	16	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		81.6	94.4		ng/L		116	46 - 156	16	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		38.6	46.8		ng/L		121	56 - 151	4	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		108	119		ng/L		110	62 - 129	2	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		540	618		ng/L		114	63 - 134	3	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		540	560		ng/L		104	50 - 138	4	30
Perfluorodecanesulfonic acid (PFDS)	ND		20.8	20.7		ng/L		99	51 - 147	3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		43.2	50.5		ng/L		117	51 - 145	2	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*98.9*		*10 - 130*
13C5 PFPeA	*99.9*		*35 - 150*
13C5 PFHxA	*93.5*		*55 - 150*
13C4 PFHpA	*102*		*55 - 150*
13C8 PFOA	*92.4*		*60 - 140*
13C9 PFNA	*89.1*		*55 - 140*
13C6 PFDA	*88.1*		*50 - 140*
13C7 PFUnA	*87.1*		*30 - 140*
13C2 PFTeDA	*83.6*		*10 - 130*
13C3 PFBS	*94.8*		*55 - 150*
13C3 PFHxS	*90.5*		*55 - 150*
13C8 PFOS	*101*		*45 - 140*
13C8 PFOSA	*92.2*		*30 - 130*
d3-NMeFOSAA	*87.2*		*45 - 200*
d5-NEtFOSAA	*83.7*		*10 - 200*
M2-4:2 FTS	*95.2*		*60 - 200*
M2-6:2 FTS	*98.1*		*60 - 200*
M2-8:2 FTS	*88.7*		*50 - 200*
13C3 HFPO-DA	*91.2*		*25 - 160*
d7-N-MeFOSE-M	*87.8*		*10 - 150*
d9-N-EtFOSE-M	*64.8*		*10 - 150*
d5-NEtPFOSA	*64.2*		*10 - 130*
D3-NMeFOSA	*79.8*		*15 - 130*
13C2-PFDoDA	*77.2*		*10 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227586-4 DU
Matrix: Water
Analysis Batch: 647184

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	15		15.4		ng/L		0.9	30
Perfluoropentanoic acid (PFPeA)	14		13.1		ng/L		3	30
Perfluorohexanoic acid (PFHxA)	6.3		6.05		ng/L		4	30
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.53	J	ng/L		0.5	30
Perfluorooctanoic acid (PFOA)	5.4		5.23		ng/L		4	30
Perfluorononanoic acid (PFNA)	ND		0.788	J	ng/L		NC	30
Perfluorodecanoic acid (PFDA)	ND		ND		ng/L		NC	30
Perfluoroundecanoic acid (PFUnA)	ND		ND		ng/L		NC	30
Perfluorododecanoic acid (PFDoA)	ND		ND		ng/L		NC	30
Perfluorotridecanoic acid (PFTrDA)	ND		ND		ng/L		NC	30
Perfluorotetradecanoic acid (PFTeDA)	ND		ND		ng/L		NC	30
Perfluorobutanesulfonic acid (PFBS)	2.4		2.20		ng/L		10	30
Perfluoropentanesulfonic acid (PFPeS)	ND		ND		ng/L		NC	30
Perfluorohexanesulfonic acid (PFHxS)	1.9		1.99		ng/L		6	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		ND		ng/L		NC	30
Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.26	J	ng/L		7	30
Perfluorononanesulfonic acid (PFNS)	ND		ND		ng/L		NC	30
Perfluorododecanesulfonic acid (PFDoS)	ND		ND		ng/L		NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		ND		ng/L		NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		ND		ng/L		NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		ND		ng/L		NC	30
Perfluorooctanesulfonamide (PFOSA)	ND		ND		ng/L		NC	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		ND		ng/L		NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		ND		ng/L		NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		ND		ng/L		NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		ND		ng/L		NC	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		ND		ng/L		NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		ND		ng/L		NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ND		ng/L		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		ND		ng/L		NC	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-227586-4 DU
Matrix: Water
Analysis Batch: 647184

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 647079

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND			ND		ng/L				NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND			ND		ng/L				NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND			ND		ng/L				NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND			ND		ng/L				NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND			ND		ng/L				NC	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND			ND		ng/L				NC	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND			ND		ng/L				NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND			ND		ng/L				NC	30
Perfluorodecanesulfonic acid (PFDS)	ND			ND		ng/L				NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND			ND		ng/L				NC	30

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
13C4 PFBA	*93.7*		*10 - 130*
13C5 PFPeA	*92.9*		*35 - 150*
13C5 PFHxA	*86.0*		*55 - 150*
13C4 PFHpA	*92.8*		*55 - 150*
13C8 PFOA	*86.6*		*60 - 140*
13C9 PFNA	*81.0*		*55 - 140*
13C6 PFDA	*79.4*		*50 - 140*
13C7 PFUnA	*77.0*		*30 - 140*
13C2 PFTeDA	*66.9*		*10 - 130*
13C3 PFBS	*95.4*		*55 - 150*
13C3 PFHxS	*85.6*		*55 - 150*
13C8 PFOS	*93.8*		*45 - 140*
13C8 PFOSA	*81.8*		*30 - 130*
d3-NMeFOSAA	*81.0*		*45 - 200*
d5-NEtFOSAA	*73.1*		*10 - 200*
M2-4:2 FTS	*92.9*		*60 - 200*
M2-6:2 FTS	*91.1*		*60 - 200*
M2-8:2 FTS	*86.6*		*50 - 200*
13C3 HFPO-DA	*90.4*		*25 - 160*
d7-N-MeFOSE-M	*69.3*		*10 - 150*
d9-N-EtFOSE-M	*52.0*		*10 - 150*
d5-NEtPFOSA	*53.7*		*10 - 130*
D3-NMeFOSA	*65.3*		*15 - 130*
13C2-PFDoDA	*65.9*		*10 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-739892/1-A
Matrix: Water
Analysis Batch: 739981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/25 08:07	03/03/25 16:11	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:07	03/03/25 16:11	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:07	03/03/25 16:11	1
Barium	ND		0.0020	0.00070	mg/L		03/03/25 08:07	03/03/25 16:11	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/25 08:07	03/03/25 16:11	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:07	03/03/25 16:11	1
Calcium	ND		0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:11	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:07	03/03/25 16:11	1
Cobalt	ND		0.0040	0.00063	mg/L		03/03/25 08:07	03/03/25 16:11	1
Copper	ND		0.010	0.0016	mg/L		03/03/25 08:07	03/03/25 16:11	1
Iron	ND		0.050	0.019	mg/L		03/03/25 08:07	03/03/25 16:11	1
Lead	ND		0.010	0.0030	mg/L		03/03/25 08:07	03/03/25 16:11	1
Magnesium	ND		0.20	0.043	mg/L		03/03/25 08:07	03/03/25 16:11	1
Manganese	ND		0.0030	0.00040	mg/L		03/03/25 08:07	03/03/25 16:11	1
Nickel	ND		0.010	0.0013	mg/L		03/03/25 08:07	03/03/25 16:11	1
Potassium	ND		0.50	0.10	mg/L		03/03/25 08:07	03/03/25 16:11	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:07	03/03/25 16:11	1
Silver	ND		0.0060	0.0017	mg/L		03/03/25 08:07	03/03/25 16:11	1
Sodium	ND		1.0	0.32	mg/L		03/03/25 08:07	03/03/25 16:11	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:07	03/03/25 16:11	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/25 08:07	03/03/25 16:11	1
Zinc	ND		0.010	0.0015	mg/L		03/03/25 08:07	03/03/25 16:11	1

Lab Sample ID: LCS 480-739892/2-A
Matrix: Water
Analysis Batch: 739981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.11	5.20		mg/L		102	80 - 120
Antimony	0.500	0.500		mg/L		100	80 - 120
Arsenic	1.01	0.987		mg/L		98	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.496	0.522		mg/L		105	80 - 120
Cadmium	0.500	0.478		mg/L		96	80 - 120
Calcium	25.0	25.85		mg/L		103	80 - 120
Chromium	0.499	0.496		mg/L		99	80 - 120
Cobalt	0.500	0.510		mg/L		102	80 - 120
Copper	0.500	0.450		mg/L		90	80 - 120
Iron	5.12	5.21		mg/L		102	80 - 120
Lead	0.500	0.522		mg/L		104	80 - 120
Magnesium	25.0	25.29		mg/L		101	80 - 120
Manganese	0.498	0.513		mg/L		103	80 - 120
Nickel	0.501	0.526		mg/L		105	80 - 120
Potassium	25.0	25.61		mg/L		103	80 - 120
Selenium	1.00	0.962		mg/L		96	80 - 120
Silver	0.0500	0.0478		mg/L		96	80 - 120
Sodium	25.0	24.00		mg/L		96	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120
Vanadium	0.502	0.510		mg/L		102	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-739892/2-A
Matrix: Water
Analysis Batch: 739981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739892

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Zinc			0.500	0.510		mg/L		102	80 - 120		

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 739981

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum	0.48	F1 F2	5.11	6.14		mg/L		111	75 - 125		
Antimony	ND		0.500	0.517		mg/L		103	75 - 125		
Arsenic	ND		1.01	1.00		mg/L		100	75 - 125		
Barium	0.15		1.00	1.16		mg/L		101	75 - 125		
Beryllium	ND		0.496	0.523		mg/L		105	75 - 125		
Cadmium	ND		0.500	0.497		mg/L		99	75 - 125		
Calcium	143		25.0	168.8	4	mg/L		102	75 - 125		
Chromium	ND		0.499	0.487		mg/L		98	75 - 125		
Cobalt	0.0033	J	0.500	0.508		mg/L		101	75 - 125		
Copper	0.0041	J	0.500	0.519		mg/L		103	75 - 125		
Iron	1.0	F1 F2	5.12	6.45		mg/L		106	75 - 125		
Lead	0.0040	J	0.500	0.528		mg/L		105	75 - 125		
Magnesium	47.4		25.0	72.15		mg/L		99	75 - 125		
Manganese	0.21	F1	0.498	0.725		mg/L		103	75 - 125		
Nickel	0.0056	J	0.501	0.523		mg/L		103	75 - 125		
Potassium	36.6		25.0	63.49		mg/L		108	75 - 125		
Selenium	ND		1.00	0.995		mg/L		99	75 - 125		
Silver	ND		0.0500	0.0526		mg/L		105	75 - 125		
Sodium	530		25.0	560.5	4	mg/L		123	75 - 125		
Thallium	ND		1.00	1.05		mg/L		105	75 - 125		
Vanadium	ND		0.502	0.510		mg/L		102	75 - 125		
Zinc	ND	L	0.500	0.475		mg/L		95	75 - 125		

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 739981

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	0.48	F1 F2	5.11	8.42	F1 F2	mg/L		155	75 - 125	31	20
Antimony	ND		0.500	0.509		mg/L		102	75 - 125	2	20
Arsenic	ND		1.01	0.993		mg/L		99	75 - 125	1	20
Barium	0.15		1.00	1.16		mg/L		101	75 - 125	0	20
Beryllium	ND		0.496	0.514		mg/L		104	75 - 125	2	20
Cadmium	ND		0.500	0.493		mg/L		99	75 - 125	1	20
Calcium	143		25.0	174.1	4	mg/L		124	75 - 125	3	20
Chromium	ND		0.499	0.486		mg/L		97	75 - 125	0	20
Cobalt	0.0033	J	0.500	0.505		mg/L		100	75 - 125	1	20
Copper	0.0041	J	0.500	0.517		mg/L		102	75 - 125	0	20
Iron	1.0	F1 F2	5.12	9.47	F1 F2	mg/L		165	75 - 125	38	20
Lead	0.0040	J	0.500	0.527		mg/L		105	75 - 125	0	20
Magnesium	47.4		25.0	75.55		mg/L		112	75 - 125	5	20
Manganese	0.21	F1	0.498	0.852	F1	mg/L		129	75 - 125	16	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 739981

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 739892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	0.0056	J	0.501	0.521		mg/L		103	75 - 125	0	20
Potassium	36.6		25.0	62.72	^+	mg/L		105	75 - 125	1	20
Selenium	ND		1.00	0.981		mg/L		98	75 - 125	1	20
Silver	ND		0.0500	0.0517		mg/L		103	75 - 125	2	20
Sodium	530		25.0	539.6	4	mg/L		40	75 - 125	4	20
Thallium	ND		1.00	1.03		mg/L		103	75 - 125	1	20
Vanadium	ND		0.502	0.509		mg/L		101	75 - 125	0	20
Zinc	ND	L	0.500	0.502		mg/L		100	75 - 125	6	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-739887/1-B
Matrix: Water
Analysis Batch: 739981

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 739891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/25 08:04	03/03/25 15:31	1
Antimony	ND		0.020	0.0068	mg/L		03/03/25 08:04	03/03/25 15:31	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/25 08:04	03/03/25 15:31	1
Barium	ND		0.0020	0.00070	mg/L		03/03/25 08:04	03/03/25 15:31	1
Beryllium	ND	^5-	0.0020	0.00030	mg/L		03/03/25 08:04	03/03/25 15:31	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/25 08:04	03/03/25 15:31	1
Calcium	ND	^5-	0.50	0.10	mg/L		03/03/25 08:04	03/03/25 15:31	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/25 08:04	03/03/25 15:31	1
Cobalt	ND		0.0040	0.00063	mg/L		03/03/25 08:04	03/03/25 15:31	1
Copper	ND	^5+	0.010	0.0016	mg/L		03/03/25 08:04	03/03/25 15:31	1
Iron	ND	^5-	0.050	0.019	mg/L		03/03/25 08:04	03/03/25 15:31	1
Lead	ND		0.010	0.0030	mg/L		03/03/25 08:04	03/03/25 15:31	1
Magnesium	ND		0.20	0.043	mg/L		03/03/25 08:04	03/03/25 15:31	1
Manganese	0.000734	J	0.0030	0.00040	mg/L		03/03/25 08:04	03/03/25 15:31	1
Nickel	ND		0.010	0.0013	mg/L		03/03/25 08:04	03/03/25 15:31	1
Potassium	ND		0.50	0.10	mg/L		03/03/25 08:04	03/03/25 15:31	1
Selenium	ND		0.025	0.0087	mg/L		03/03/25 08:04	03/03/25 15:31	1
Silver	ND	^5-	0.0060	0.0017	mg/L		03/03/25 08:04	03/03/25 15:31	1
Sodium	ND		1.0	0.32	mg/L		03/03/25 08:04	03/03/25 15:31	1
Thallium	ND		0.020	0.010	mg/L		03/03/25 08:04	03/03/25 15:31	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/25 08:04	03/03/25 15:31	1
Zinc	0.00157	J ^5-	0.010	0.0015	mg/L		03/03/25 08:04	03/03/25 15:31	1

Lab Sample ID: LCS 480-739887/2-B
Matrix: Water
Analysis Batch: 739981

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 739891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.11	5.10		mg/L		100	80 - 120
Antimony	0.500	0.490		mg/L		98	80 - 120
Arsenic	1.01	0.977		mg/L		97	80 - 120
Barium	1.00	0.993		mg/L		99	80 - 120
Beryllium	0.496	0.514	^5-	mg/L		104	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-739887/2-B
Matrix: Water
Analysis Batch: 739981

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 739891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.500	0.471		mg/L		94	80 - 120
Calcium	25.0	25.41	^5-	mg/L		102	80 - 120
Chromium	0.499	0.488		mg/L		98	80 - 120
Cobalt	0.500	0.502		mg/L		100	80 - 120
Copper	0.500	0.451	^5+	mg/L		90	80 - 120
Iron	5.12	5.51	^5-	mg/L		108	80 - 120
Lead	0.500	0.517		mg/L		103	80 - 120
Magnesium	25.0	24.70		mg/L		99	80 - 120
Manganese	0.498	0.506		mg/L		102	80 - 120
Nickel	0.501	0.517		mg/L		103	80 - 120
Potassium	25.0	25.08		mg/L		100	80 - 120
Selenium	1.00	0.948		mg/L		95	80 - 120
Silver	0.0500	0.0473	^5-	mg/L		95	80 - 120
Sodium	25.0	23.65		mg/L		95	80 - 120
Thallium	1.00	0.994		mg/L		99	80 - 120
Vanadium	0.502	0.503		mg/L		100	80 - 120
Zinc	0.500	0.499	^5-	mg/L		100	80 - 120

Lab Sample ID: LCSD 480-739887/3-B
Matrix: Water
Analysis Batch: 739981

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 739891

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	5.11	5.00		mg/L		98	80 - 120	2	20
Antimony	0.500	0.489		mg/L		98	80 - 120	0	20
Arsenic	1.01	0.965		mg/L		96	80 - 120	1	20
Barium	1.00	0.983		mg/L		98	80 - 120	1	20
Beryllium	0.496	0.510	^5-	mg/L		103	80 - 120	1	20
Cadmium	0.500	0.466		mg/L		93	80 - 120	1	20
Calcium	25.0	24.91	^5-	mg/L		100	80 - 120	2	20
Chromium	0.499	0.486		mg/L		97	80 - 120	0	20
Cobalt	0.500	0.500		mg/L		100	80 - 120	0	20
Copper	0.500	0.442	^5+	mg/L		88	80 - 120	2	20
Iron	5.12	5.40	^5-	mg/L		106	80 - 120	2	20
Lead	0.500	0.511		mg/L		102	80 - 120	1	20
Magnesium	25.0	24.21		mg/L		97	80 - 120	2	20
Manganese	0.498	0.501		mg/L		101	80 - 120	1	20
Nickel	0.501	0.513		mg/L		102	80 - 120	1	20
Potassium	25.0	24.64		mg/L		99	80 - 120	2	20
Selenium	1.00	0.942		mg/L		94	80 - 120	1	20
Silver	0.0500	0.0470	^5-	mg/L		94	80 - 120	1	20
Sodium	25.0	23.21		mg/L		93	80 - 120	2	20
Thallium	1.00	0.992		mg/L		99	80 - 120	0	20
Vanadium	0.502	0.499		mg/L		99	80 - 120	1	20
Zinc	0.500	0.501	^5-	mg/L		100	80 - 120	0	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 739981

Client Sample ID: MW-2
Prep Type: Dissolved
Prep Batch: 739891

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	ND		5.11	5.16		mg/L		101	75 - 125
Antimony	ND		0.500	0.513		mg/L		103	75 - 125
Arsenic	ND		1.01	0.986		mg/L		98	75 - 125
Barium	0.14		1.00	1.13		mg/L		98	75 - 125
Beryllium	ND	^5-	0.496	0.516	^5-	mg/L		104	75 - 125
Cadmium	ND		0.500	0.490		mg/L		98	75 - 125
Calcium	140	^5-	25.0	161.2	4 ^5-	mg/L		84	75 - 125
Chromium	ND		0.499	0.481		mg/L		96	75 - 125
Cobalt	0.0025	J	0.500	0.501		mg/L		100	75 - 125
Copper	ND	^5+	0.500	0.509	^5+	mg/L		102	75 - 125
Iron	ND	^5-	5.12	5.61	^5-	mg/L		110	75 - 125
Lead	0.0048	J	0.500	0.522		mg/L		103	75 - 125
Magnesium	45.8		25.0	69.35		mg/L		94	75 - 125
Manganese	0.17	B	0.498	0.667		mg/L		101	75 - 125
Nickel	0.0038	J	0.501	0.515		mg/L		102	75 - 125
Potassium	36.2		25.0	61.24		mg/L		100	75 - 125
Selenium	ND		1.00	0.980		mg/L		98	75 - 125
Silver	ND	^5-	0.0500	0.0513	^5-	mg/L		103	75 - 125
Sodium	538		25.0	548.0	4	mg/L		41	75 - 125
Thallium	ND		1.00	1.04		mg/L		104	75 - 125
Vanadium	ND		0.502	0.501		mg/L		100	75 - 125
Zinc	ND	L ^5-	0.500	0.463	^5-	mg/L		93	75 - 125

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 739981

Client Sample ID: MW-2
Prep Type: Dissolved
Prep Batch: 739891

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	ND		5.11	5.27		mg/L		103	75 - 125	2	20
Antimony	ND		0.500	0.523		mg/L		105	75 - 125	2	20
Arsenic	ND		1.01	1.01		mg/L		100	75 - 125	2	20
Barium	0.14		1.00	1.15		mg/L		100	75 - 125	2	20
Beryllium	ND	^5-	0.496	0.527	^5-	mg/L		106	75 - 125	2	20
Cadmium	ND		0.500	0.501		mg/L		100	75 - 125	2	20
Chromium	ND		0.499	0.488		mg/L		98	75 - 125	2	20
Cobalt	0.0025	J	0.500	0.511		mg/L		102	75 - 125	2	20
Copper	ND	^5+	0.500	0.527	^5+	mg/L		105	75 - 125	3	20
Iron	ND	^5-	5.12	5.72	^5-	mg/L		112	75 - 125	2	20
Lead	0.0048	J	0.500	0.527		mg/L		104	75 - 125	1	20
Magnesium	45.8		25.0	70.14		mg/L		97	75 - 125	1	20
Manganese	0.17	B	0.498	0.699		mg/L		107	75 - 125	5	20
Nickel	0.0038	J	0.501	0.525		mg/L		104	75 - 125	2	20
Potassium	36.2		25.0	61.15		mg/L		100	75 - 125	0	20
Selenium	ND		1.00	1.01		mg/L		101	75 - 125	3	20
Silver	ND	^5-	0.0500	0.0516	^5-	mg/L		103	75 - 125	1	20
Sodium	538		25.0	541.4	4	mg/L		14	75 - 125	1	20
Thallium	ND		1.00	1.06		mg/L		106	75 - 125	2	20
Vanadium	ND		0.502	0.511		mg/L		102	75 - 125	2	20
Zinc	ND	L ^5-	0.500	0.461	^5-	mg/L		92	75 - 125	0	20

Method: 6010D - Metals (ICP)

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 740058

Client Sample ID: MW-2
Prep Type: Dissolved
Prep Batch: 739891

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	141		25.0	160.2	4	mg/L		76	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-740071/1-A
Matrix: Water
Analysis Batch: 740164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 740071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/05/25 09:29	03/05/25 13:28	1

Lab Sample ID: LCS 480-740071/2-A
Matrix: Water
Analysis Batch: 740164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 740071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00623		mg/L		93	80 - 120

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 740164

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 740071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00669	0.00641		mg/L		96	80 - 120

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 740164

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 740071

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00669	0.00630		mg/L		94	80 - 120	2	20

Lab Sample ID: MB 480-739887/1-C
Matrix: Water
Analysis Batch: 740068

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 739994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/04/25 10:22	03/04/25 14:37	1

Lab Sample ID: LCS 480-739887/2-C
Matrix: Water
Analysis Batch: 740068

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 739994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00657		mg/L		98	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 480-739887/3-C
Matrix: Water
Analysis Batch: 740068

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 739994

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00669	0.00673		mg/L		101	80 - 120	2	20

Lab Sample ID: 480-227586-2 MS
Matrix: Water
Analysis Batch: 740068

Client Sample ID: MW-2
Prep Type: Dissolved
Prep Batch: 739994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00669	0.00603		mg/L		90	80 - 120

Lab Sample ID: 480-227586-2 MSD
Matrix: Water
Analysis Batch: 740068

Client Sample ID: MW-2
Prep Type: Dissolved
Prep Batch: 739994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00669	0.00601		mg/L		90	80 - 120	0	20

GC/MS VOA

Analysis Batch: 739933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	8260C	
480-227586-2	MW-2	Total/NA	Water	8260C	
480-227586-3	MW-3	Total/NA	Water	8260C	
480-227586-4	MW-4	Total/NA	Water	8260C	
480-227586-5	MW-5	Total/NA	Water	8260C	
480-227586-6	MW-6	Total/NA	Water	8260C	
480-227586-7	BD	Total/NA	Water	8260C	
480-227586-10	TRIP BLANK	Total/NA	Water	8260C	
MB 480-739933/8	Method Blank	Total/NA	Water	8260C	
LCS 480-739933/6	Lab Control Sample	Total/NA	Water	8260C	
480-227586-2 MS	MW-2	Total/NA	Water	8260C	
480-227586-2 MSD	MW-2	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 739939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-4	MW-4	Total/NA	Water	3510C	
MB 480-739939/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-739939/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 739963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	3510C	
480-227586-2	MW-2	Total/NA	Water	3510C	
480-227586-3	MW-3	Total/NA	Water	3510C	
480-227586-4	MW-4	Total/NA	Water	3510C	
480-227586-5	MW-5	Total/NA	Water	3510C	
480-227586-6	MW-6	Total/NA	Water	3510C	
480-227586-7	BD	Total/NA	Water	3510C	
MB 480-739963/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-739963/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-227586-2 MS	MW-2	Total/NA	Water	3510C	
480-227586-2 MSD	MW-2	Total/NA	Water	3510C	

Analysis Batch: 739998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-4	MW-4	Total/NA	Water	8270D SIM ID	739939
MB 480-739939/1-A	Method Blank	Total/NA	Water	8270D SIM ID	739939
LCS 480-739939/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	739939

Analysis Batch: 740003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	8270D	739963
480-227586-2	MW-2	Total/NA	Water	8270D	739963
MB 480-739963/1-A	Method Blank	Total/NA	Water	8270D	739963
LCS 480-739963/2-A	Lab Control Sample	Total/NA	Water	8270D	739963
480-227586-2 MS	MW-2	Total/NA	Water	8270D	739963
480-227586-2 MSD	MW-2	Total/NA	Water	8270D	739963

GC/MS Semi VOA

Analysis Batch: 740093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-3	MW-3	Total/NA	Water	8270D	739963
480-227586-4	MW-4	Total/NA	Water	8270D	739963
480-227586-5	MW-5	Total/NA	Water	8270D	739963
480-227586-6	MW-6	Total/NA	Water	8270D	739963
480-227586-7	BD	Total/NA	Water	8270D	739963

Prep Batch: 740178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	3510C	
480-227586-2	MW-2	Total/NA	Water	3510C	
480-227586-3	MW-3	Total/NA	Water	3510C	
480-227586-5	MW-5	Total/NA	Water	3510C	
480-227586-6	MW-6	Total/NA	Water	3510C	
480-227586-7	BD	Total/NA	Water	3510C	
MB 480-740178/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-740178/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-227586-2 MS	MW-2	Total/NA	Water	3510C	
480-227586-2 MSD	MW-2	Total/NA	Water	3510C	

Analysis Batch: 740218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	8270D SIM ID	740178
480-227586-2	MW-2	Total/NA	Water	8270D SIM ID	740178
480-227586-3	MW-3	Total/NA	Water	8270D SIM ID	740178
480-227586-5	MW-5	Total/NA	Water	8270D SIM ID	740178
480-227586-6	MW-6	Total/NA	Water	8270D SIM ID	740178
480-227586-7	BD	Total/NA	Water	8270D SIM ID	740178
MB 480-740178/1-A	Method Blank	Total/NA	Water	8270D SIM ID	740178
LCS 480-740178/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	740178
480-227586-2 MS	MW-2	Total/NA	Water	8270D SIM ID	740178
480-227586-2 MSD	MW-2	Total/NA	Water	8270D SIM ID	740178

GC Semi VOA

Prep Batch: 739973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	3510C	
480-227586-2	MW-2	Total/NA	Water	3510C	
480-227586-3	MW-3	Total/NA	Water	3510C	
480-227586-4	MW-4	Total/NA	Water	3510C	
480-227586-5	MW-5	Total/NA	Water	3510C	
480-227586-6	MW-6	Total/NA	Water	3510C	
480-227586-7	BD	Total/NA	Water	3510C	
MB 480-739973/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-739973/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-227586-2 MS	MW-2	Total/NA	Water	3510C	
480-227586-2 MSD	MW-2	Total/NA	Water	3510C	

Analysis Batch: 739978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	8082A	739973

GC Semi VOA (Continued)

Analysis Batch: 739978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-2	MW-2	Total/NA	Water	8082A	739973
480-227586-3	MW-3	Total/NA	Water	8082A	739973
480-227586-4	MW-4	Total/NA	Water	8082A	739973
480-227586-5	MW-5	Total/NA	Water	8082A	739973
480-227586-6	MW-6	Total/NA	Water	8082A	739973
480-227586-7	BD	Total/NA	Water	8082A	739973
MB 480-739973/1-A	Method Blank	Total/NA	Water	8082A	739973
LCS 480-739973/2-A	Lab Control Sample	Total/NA	Water	8082A	739973
480-227586-2 MS	MW-2	Total/NA	Water	8082A	739973
480-227586-2 MSD	MW-2	Total/NA	Water	8082A	739973

Prep Batch: 739997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	8151A	
480-227586-2	MW-2	Total/NA	Water	8151A	
480-227586-3	MW-3	Total/NA	Water	8151A	
480-227586-4	MW-4	Total/NA	Water	8151A	
480-227586-5	MW-5	Total/NA	Water	8151A	
480-227586-6	MW-6	Total/NA	Water	8151A	
480-227586-7	BD	Total/NA	Water	8151A	
MB 480-739997/1-A	Method Blank	Total/NA	Water	8151A	
LCS 480-739997/2-A	Lab Control Sample	Total/NA	Water	8151A	
480-227586-2 MS	MW-2	Total/NA	Water	8151A	
480-227586-2 MSD	MW-2	Total/NA	Water	8151A	

Analysis Batch: 740110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	8151A	739997
480-227586-2	MW-2	Total/NA	Water	8151A	739997
480-227586-3	MW-3	Total/NA	Water	8151A	739997
480-227586-4	MW-4	Total/NA	Water	8151A	739997
480-227586-5	MW-5	Total/NA	Water	8151A	739997
480-227586-6	MW-6	Total/NA	Water	8151A	739997
480-227586-7	BD	Total/NA	Water	8151A	739997
MB 480-739997/1-A	Method Blank	Total/NA	Water	8151A	739997
LCS 480-739997/2-A	Lab Control Sample	Total/NA	Water	8151A	739997
480-227586-2 MS	MW-2	Total/NA	Water	8151A	739997
480-227586-2 MSD	MW-2	Total/NA	Water	8151A	739997

Prep Batch: 740242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	3510C	
480-227586-2	MW-2	Total/NA	Water	3510C	
480-227586-3	MW-3	Total/NA	Water	3510C	
480-227586-4	MW-4	Total/NA	Water	3510C	
480-227586-5	MW-5	Total/NA	Water	3510C	
480-227586-6	MW-6	Total/NA	Water	3510C	
480-227586-7	BD	Total/NA	Water	3510C	
MB 480-740242/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-740242/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-227586-2 MS	MW-2	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 740242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-2 MSD	MW-2	Total/NA	Water	3510C	

Analysis Batch: 740373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	8081B	740242
480-227586-2	MW-2	Total/NA	Water	8081B	740242
480-227586-3	MW-3	Total/NA	Water	8081B	740242
480-227586-4	MW-4	Total/NA	Water	8081B	740242
480-227586-5	MW-5	Total/NA	Water	8081B	740242
480-227586-6	MW-6	Total/NA	Water	8081B	740242
480-227586-7	BD	Total/NA	Water	8081B	740242
MB 480-740242/1-A	Method Blank	Total/NA	Water	8081B	740242
LCS 480-740242/2-A	Lab Control Sample	Total/NA	Water	8081B	740242
480-227586-2 MS	MW-2	Total/NA	Water	8081B	740242
480-227586-2 MSD	MW-2	Total/NA	Water	8081B	740242

LCMS

Prep Batch: 647079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	1633	
480-227586-2	MW-2	Total/NA	Water	1633	
480-227586-3	MW-3	Total/NA	Water	1633	
480-227586-4	MW-4	Total/NA	Water	1633	
480-227586-5	MW-5	Total/NA	Water	1633	
480-227586-6	MW-6	Total/NA	Water	1633	
480-227586-7	BD	Total/NA	Water	1633	
480-227586-8	EQUIPMENT BLANK	Total/NA	Water	1633	
480-227586-9	FIELD BLANK	Total/NA	Water	1633	
MB 240-647079/1-A	Method Blank	Total/NA	Water	1633	
LCS 240-647079/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 240-647079/2-A	Lab Control Sample	Total/NA	Water	1633	
480-227586-2 MS	MW-2	Total/NA	Water	1633	
480-227586-2 MSD	MW-2	Total/NA	Water	1633	
480-227586-4 DU	MW-4	Total/NA	Water	1633	

Analysis Batch: 647184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	1633	647079
480-227586-2	MW-2	Total/NA	Water	1633	647079
480-227586-3	MW-3	Total/NA	Water	1633	647079
480-227586-4	MW-4	Total/NA	Water	1633	647079
480-227586-5	MW-5	Total/NA	Water	1633	647079
480-227586-6	MW-6	Total/NA	Water	1633	647079
480-227586-7	BD	Total/NA	Water	1633	647079
480-227586-8	EQUIPMENT BLANK	Total/NA	Water	1633	647079
480-227586-9	FIELD BLANK	Total/NA	Water	1633	647079
MB 240-647079/1-A	Method Blank	Total/NA	Water	1633	647079
LCS 240-647079/3-A	Lab Control Sample	Total/NA	Water	1633	647079
LLCS 240-647079/2-A	Lab Control Sample	Total/NA	Water	1633	647079
480-227586-2 MS	MW-2	Total/NA	Water	1633	647079

LCMS (Continued)

Analysis Batch: 647184 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-2 MSD	MW-2	Total/NA	Water	1633	647079
480-227586-4 DU	MW-4	Total/NA	Water	1633	647079

Metals

Filtration Batch: 739887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Dissolved	Water	FILTRATION	
480-227586-2	MW-2	Dissolved	Water	FILTRATION	
480-227586-3	MW-3	Dissolved	Water	FILTRATION	
480-227586-4	MW-4	Dissolved	Water	FILTRATION	
480-227586-5	MW-5	Dissolved	Water	FILTRATION	
480-227586-6	MW-6	Dissolved	Water	FILTRATION	
480-227586-7	BD	Dissolved	Water	FILTRATION	
MB 480-739887/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-739887/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-739887/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-739887/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 480-739887/3-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
LCSD 480-739887/3-C	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
480-227586-2 MS	MW-2	Dissolved	Water	FILTRATION	
480-227586-2 MSD	MW-2	Dissolved	Water	FILTRATION	

Prep Batch: 739891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Dissolved	Water	3005A	739887
480-227586-2	MW-2	Dissolved	Water	3005A	739887
480-227586-3	MW-3	Dissolved	Water	3005A	739887
480-227586-4	MW-4	Dissolved	Water	3005A	739887
480-227586-5	MW-5	Dissolved	Water	3005A	739887
480-227586-6	MW-6	Dissolved	Water	3005A	739887
480-227586-7	BD	Dissolved	Water	3005A	739887
MB 480-739887/1-B	Method Blank	Dissolved	Water	3005A	739887
LCS 480-739887/2-B	Lab Control Sample	Dissolved	Water	3005A	739887
LCSD 480-739887/3-B	Lab Control Sample Dup	Dissolved	Water	3005A	739887
480-227586-2 MS	MW-2	Dissolved	Water	3005A	739887
480-227586-2 MSD	MW-2	Dissolved	Water	3005A	739887

Prep Batch: 739892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	3005A	
480-227586-2	MW-2	Total/NA	Water	3005A	
480-227586-3	MW-3	Total/NA	Water	3005A	
480-227586-4	MW-4	Total/NA	Water	3005A	
480-227586-5	MW-5	Total/NA	Water	3005A	
480-227586-6	MW-6	Total/NA	Water	3005A	
480-227586-7	BD	Total/NA	Water	3005A	
MB 480-739892/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-739892/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-227586-2 MS	MW-2	Total/NA	Water	3005A	
480-227586-2 MSD	MW-2	Total/NA	Water	3005A	

Metals

Analysis Batch: 739981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Dissolved	Water	6010D	739891
480-227586-1	MW-1	Total/NA	Water	6010C	739892
480-227586-2	MW-2	Dissolved	Water	6010D	739891
480-227586-2	MW-2	Total/NA	Water	6010C	739892
480-227586-3	MW-3	Dissolved	Water	6010D	739891
480-227586-3	MW-3	Total/NA	Water	6010C	739892
480-227586-4	MW-4	Dissolved	Water	6010D	739891
480-227586-4	MW-4	Total/NA	Water	6010C	739892
480-227586-5	MW-5	Dissolved	Water	6010D	739891
480-227586-5	MW-5	Total/NA	Water	6010C	739892
480-227586-6	MW-6	Dissolved	Water	6010D	739891
480-227586-6	MW-6	Total/NA	Water	6010C	739892
480-227586-7	BD	Dissolved	Water	6010D	739891
480-227586-7	BD	Total/NA	Water	6010C	739892
MB 480-739887/1-B	Method Blank	Dissolved	Water	6010D	739891
MB 480-739892/1-A	Method Blank	Total/NA	Water	6010C	739892
LCS 480-739887/2-B	Lab Control Sample	Dissolved	Water	6010D	739891
LCS 480-739892/2-A	Lab Control Sample	Total/NA	Water	6010C	739892
LCSD 480-739887/3-B	Lab Control Sample Dup	Dissolved	Water	6010D	739891
480-227586-2 MS	MW-2	Dissolved	Water	6010D	739891
480-227586-2 MS	MW-2	Total/NA	Water	6010C	739892
480-227586-2 MSD	MW-2	Dissolved	Water	6010D	739891
480-227586-2 MSD	MW-2	Total/NA	Water	6010C	739892

Prep Batch: 739994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Dissolved	Water	7470A	739887
480-227586-2	MW-2	Dissolved	Water	7470A	739887
480-227586-3	MW-3	Dissolved	Water	7470A	739887
480-227586-4	MW-4	Dissolved	Water	7470A	739887
480-227586-5	MW-5	Dissolved	Water	7470A	739887
480-227586-6	MW-6	Dissolved	Water	7470A	739887
480-227586-7	BD	Dissolved	Water	7470A	739887
MB 480-739887/1-C	Method Blank	Dissolved	Water	7470A	739887
LCS 480-739887/2-C	Lab Control Sample	Dissolved	Water	7470A	739887
LCSD 480-739887/3-C	Lab Control Sample Dup	Dissolved	Water	7470A	739887
480-227586-2 MS	MW-2	Dissolved	Water	7470A	739887
480-227586-2 MSD	MW-2	Dissolved	Water	7470A	739887

Analysis Batch: 740058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-2	MW-2	Dissolved	Water	6010D	739891
480-227586-2	MW-2	Total/NA	Water	6010C	739892
480-227586-3	MW-3	Dissolved	Water	6010D	739891
480-227586-3	MW-3	Dissolved	Water	6010D	739891
480-227586-4	MW-4	Dissolved	Water	6010D	739891
480-227586-4	MW-4	Total/NA	Water	6010C	739892
480-227586-5	MW-5	Dissolved	Water	6010D	739891
480-227586-5	MW-5	Total/NA	Water	6010C	739892
480-227586-6	MW-6	Dissolved	Water	6010D	739891
480-227586-7	BD	Dissolved	Water	6010D	739891

Metals (Continued)

Analysis Batch: 740058 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-7	BD	Dissolved	Water	6010D	739891
480-227586-7	BD	Total/NA	Water	6010C	739892
480-227586-2 MSD	MW-2	Dissolved	Water	6010D	739891

Analysis Batch: 740068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Dissolved	Water	7470A	739994
480-227586-2	MW-2	Dissolved	Water	7470A	739994
480-227586-3	MW-3	Dissolved	Water	7470A	739994
480-227586-4	MW-4	Dissolved	Water	7470A	739994
480-227586-5	MW-5	Dissolved	Water	7470A	739994
480-227586-6	MW-6	Dissolved	Water	7470A	739994
480-227586-7	BD	Dissolved	Water	7470A	739994
MB 480-739887/1-C	Method Blank	Dissolved	Water	7470A	739994
LCS 480-739887/2-C	Lab Control Sample	Dissolved	Water	7470A	739994
LCSD 480-739887/3-C	Lab Control Sample Dup	Dissolved	Water	7470A	739994
480-227586-2 MS	MW-2	Dissolved	Water	7470A	739994
480-227586-2 MSD	MW-2	Dissolved	Water	7470A	739994

Prep Batch: 740071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	7470A	
480-227586-2	MW-2	Total/NA	Water	7470A	
480-227586-3	MW-3	Total/NA	Water	7470A	
480-227586-4	MW-4	Total/NA	Water	7470A	
480-227586-5	MW-5	Total/NA	Water	7470A	
480-227586-6	MW-6	Total/NA	Water	7470A	
480-227586-7	BD	Total/NA	Water	7470A	
MB 480-740071/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-740071/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-227586-2 MS	MW-2	Total/NA	Water	7470A	
480-227586-2 MSD	MW-2	Total/NA	Water	7470A	

Analysis Batch: 740164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227586-1	MW-1	Total/NA	Water	7470A	740071
480-227586-2	MW-2	Total/NA	Water	7470A	740071
480-227586-3	MW-3	Total/NA	Water	7470A	740071
480-227586-4	MW-4	Total/NA	Water	7470A	740071
480-227586-5	MW-5	Total/NA	Water	7470A	740071
480-227586-6	MW-6	Total/NA	Water	7470A	740071
480-227586-7	BD	Total/NA	Water	7470A	740071
MB 480-740071/1-A	Method Blank	Total/NA	Water	7470A	740071
LCS 480-740071/2-A	Lab Control Sample	Total/NA	Water	7470A	740071
480-227586-2 MS	MW-2	Total/NA	Water	7470A	740071
480-227586-2 MSD	MW-2	Total/NA	Water	7470A	740071

Client Sample ID: MW-1
Lab Sample ID: 480-227586-1
Date Collected: 02/27/25 12:45
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	739933	ERS	EET BUF	03/03/25 14:24
Total/NA	Prep	3510C			739963	LSC	EET BUF	03/03/25 13:44
Total/NA	Analysis	8270D		1	740003	AF	EET BUF	03/05/25 04:57
Total/NA	Prep	3510C			740178	DP	EET BUF	03/06/25 06:41
Total/NA	Analysis	8270D SIM ID		1	740218	JMM	EET BUF	03/06/25 17:02
Total/NA	Prep	3510C			740242	LSC	EET BUF	03/06/25 13:42
Total/NA	Analysis	8081B		1	740373	JLS	EET BUF	03/10/25 12:53
Total/NA	Prep	3510C			739973	SMP	EET BUF	03/04/25 06:40
Total/NA	Analysis	8082A		1	739978	W1T	EET BUF	03/04/25 20:40
Total/NA	Prep	8151A			739997	JMP	EET BUF	03/04/25 09:32
Total/NA	Analysis	8151A		1	740110	JLS	EET BUF	03/05/25 12:31
Total/NA	Prep	1633			647079	KML	EET CLE	03/06/25 09:19
Total/NA	Analysis	1633		1	647184	DSH	EET CLE	03/06/25 22:19
Total/NA	Prep	3005A			739892	EMO	EET BUF	03/03/25 08:07
Total/NA	Analysis	6010C		1	739981	BMB	EET BUF	03/03/25 16:19
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	739981	BMB	EET BUF	03/03/25 15:37
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	7470A			739994	EMO	EET BUF	03/04/25 10:22
Dissolved	Analysis	7470A		1	740068	ESB	EET BUF	03/04/25 14:41
Total/NA	Prep	7470A			740071	ESB	EET BUF	03/05/25 09:29
Total/NA	Analysis	7470A		1	740164	ESB	EET BUF	03/05/25 13:31

Client Sample ID: MW-2
Lab Sample ID: 480-227586-2
Date Collected: 02/27/25 11:00
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	739933	ERS	EET BUF	03/03/25 14:48
Total/NA	Prep	3510C			739963	LSC	EET BUF	03/03/25 13:44
Total/NA	Analysis	8270D		1	740003	AF	EET BUF	03/04/25 22:40
Total/NA	Prep	3510C			740178	DP	EET BUF	03/06/25 06:41
Total/NA	Analysis	8270D SIM ID		1	740218	JMM	EET BUF	03/06/25 14:37
Total/NA	Prep	3510C			740242	LSC	EET BUF	03/06/25 13:42
Total/NA	Analysis	8081B		1	740373	JLS	EET BUF	03/10/25 11:34
Total/NA	Prep	3510C			739973	SMP	EET BUF	03/04/25 06:40
Total/NA	Analysis	8082A		1	739978	W1T	EET BUF	03/04/25 19:26
Total/NA	Prep	8151A			739997	JMP	EET BUF	03/04/25 09:32
Total/NA	Analysis	8151A		1	740110	JLS	EET BUF	03/05/25 12:12
Total/NA	Prep	1633			647079	KML	EET CLE	03/06/25 09:19
Total/NA	Analysis	1633		1	647184	DSH	EET CLE	03/06/25 22:35
Total/NA	Prep	3005A			739892	EMO	EET BUF	03/03/25 08:07
Total/NA	Analysis	6010C		1	739981	BMB	EET BUF	03/03/25 16:21

Client Sample ID: MW-2
Lab Sample ID: 480-227586-2
Date Collected: 02/27/25 11:00
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			739892	EMO	EET BUF	03/03/25 08:07
Total/NA	Analysis	6010C		1	740058	ESB	EET BUF	03/04/25 15:57
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	739981	BMB	EET BUF	03/03/25 15:39
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	740058	ESB	EET BUF	03/04/25 16:44
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	7470A			739994	EMO	EET BUF	03/04/25 10:22
Dissolved	Analysis	7470A		1	740068	ESB	EET BUF	03/04/25 14:46
Total/NA	Prep	7470A			740071	ESB	EET BUF	03/05/25 09:29
Total/NA	Analysis	7470A		1	740164	ESB	EET BUF	03/05/25 13:32

Client Sample ID: MW-3
Lab Sample ID: 480-227586-3
Date Collected: 02/27/25 14:15
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	739933	ERS	EET BUF	03/03/25 15:13
Total/NA	Prep	3510C			739963	LSC	EET BUF	03/03/25 13:44
Total/NA	Analysis	8270D		50	740093	JMM	EET BUF	03/06/25 10:12
Total/NA	Prep	3510C			740178	DP	EET BUF	03/06/25 06:41
Total/NA	Analysis	8270D SIM ID		1	740218	JMM	EET BUF	03/06/25 17:23
Total/NA	Prep	3510C			740242	LSC	EET BUF	03/06/25 13:42
Total/NA	Analysis	8081B		1	740373	JLS	EET BUF	03/10/25 13:12
Total/NA	Prep	3510C			739973	SMP	EET BUF	03/04/25 06:40
Total/NA	Analysis	8082A		1	739978	W1T	EET BUF	03/04/25 20:58
Total/NA	Prep	8151A			739997	JMP	EET BUF	03/04/25 09:32
Total/NA	Analysis	8151A		1	740110	JLS	EET BUF	03/05/25 12:50
Total/NA	Prep	1633			647079	KML	EET CLE	03/06/25 09:19
Total/NA	Analysis	1633		1	647184	DSH	EET CLE	03/06/25 23:25
Total/NA	Prep	3005A			739892	EMO	EET BUF	03/03/25 08:07
Total/NA	Analysis	6010C		1	739981	BMB	EET BUF	03/03/25 16:36
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	739981	BMB	EET BUF	03/03/25 15:54
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	740058	ESB	EET BUF	03/04/25 17:05
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		5	740058	ESB	EET BUF	03/04/25 17:07

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-3
Lab Sample ID: 480-227586-3
Date Collected: 02/27/25 14:15
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	7470A			739994	EMO	EET BUF	03/04/25 10:22
Dissolved	Analysis	7470A		1	740068	ESB	EET BUF	03/04/25 14:51
Total/NA	Prep	7470A			740071	ESB	EET BUF	03/05/25 09:29
Total/NA	Analysis	7470A		1	740164	ESB	EET BUF	03/05/25 13:41

Client Sample ID: MW-4
Lab Sample ID: 480-227586-4
Date Collected: 02/27/25 13:30
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	739933	ERS	EET BUF	03/03/25 15:37
Total/NA	Prep	3510C			739963	LSC	EET BUF	03/03/25 13:44
Total/NA	Analysis	8270D		1	740093	JMM	EET BUF	03/06/25 07:31
Total/NA	Prep	3510C			739939	JMP	EET BUF	03/03/25 10:06
Total/NA	Analysis	8270D SIM ID		1	739998	JMM	EET BUF	03/04/25 14:49
Total/NA	Prep	3510C			740242	LSC	EET BUF	03/06/25 13:42
Total/NA	Analysis	8081B		1	740373	JLS	EET BUF	03/10/25 13:32
Total/NA	Prep	3510C			739973	SMP	EET BUF	03/04/25 06:40
Total/NA	Analysis	8082A		1	739978	W1T	EET BUF	03/04/25 21:16
Total/NA	Prep	8151A			739997	JMP	EET BUF	03/04/25 09:32
Total/NA	Analysis	8151A		1	740110	JLS	EET BUF	03/05/25 13:08
Total/NA	Prep	1633			647079	KML	EET CLE	03/06/25 09:19
Total/NA	Analysis	1633		1	647184	DSH	EET CLE	03/07/25 00:15
Total/NA	Prep	3005A			739892	EMO	EET BUF	03/03/25 08:07
Total/NA	Analysis	6010C		1	739981	BMB	EET BUF	03/03/25 16:38
Total/NA	Prep	3005A			739892	EMO	EET BUF	03/03/25 08:07
Total/NA	Analysis	6010C		5	740058	ESB	EET BUF	03/04/25 16:06
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	739981	BMB	EET BUF	03/03/25 15:56
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	740058	ESB	EET BUF	03/04/25 17:09
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	7470A			739994	EMO	EET BUF	03/04/25 10:22
Dissolved	Analysis	7470A		1	740068	ESB	EET BUF	03/04/25 14:53
Total/NA	Prep	7470A			740071	ESB	EET BUF	03/05/25 09:29
Total/NA	Analysis	7470A		1	740164	ESB	EET BUF	03/05/25 13:43

Client Sample ID: MW-5
Lab Sample ID: 480-227586-5
Date Collected: 02/27/25 15:00
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	739933	ERS	EET BUF	03/03/25 16:02
Total/NA	Prep	3510C			739963	LSC	EET BUF	03/03/25 13:44
Total/NA	Analysis	8270D		1	740093	JMM	EET BUF	03/06/25 07:58
Total/NA	Prep	3510C			740178	DP	EET BUF	03/06/25 06:41
Total/NA	Analysis	8270D SIM ID		1	740218	JMM	EET BUF	03/06/25 17:44
Total/NA	Prep	3510C			740242	LSC	EET BUF	03/06/25 13:42
Total/NA	Analysis	8081B		1	740373	JLS	EET BUF	03/10/25 13:51
Total/NA	Prep	3510C			739973	SMP	EET BUF	03/04/25 06:40
Total/NA	Analysis	8082A		1	739978	W1T	EET BUF	03/04/25 21:35
Total/NA	Prep	8151A			739997	JMP	EET BUF	03/04/25 09:32
Total/NA	Analysis	8151A		1	740110	JLS	EET BUF	03/05/25 13:27
Total/NA	Prep	1633			647079	KML	EET CLE	03/06/25 09:19
Total/NA	Analysis	1633		1	647184	DSH	EET CLE	03/07/25 00:32
Total/NA	Prep	3005A			739892	EMO	EET BUF	03/03/25 08:07
Total/NA	Analysis	6010C		1	739981	BMB	EET BUF	03/03/25 16:40
Total/NA	Prep	3005A			739892	EMO	EET BUF	03/03/25 08:07
Total/NA	Analysis	6010C		1	740058	ESB	EET BUF	03/04/25 16:16
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	739981	BMB	EET BUF	03/03/25 15:58
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	740058	ESB	EET BUF	03/04/25 17:11
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	7470A			739994	EMO	EET BUF	03/04/25 10:22
Dissolved	Analysis	7470A		1	740068	ESB	EET BUF	03/04/25 14:54
Total/NA	Prep	7470A			740071	ESB	EET BUF	03/05/25 09:29
Total/NA	Analysis	7470A		1	740164	ESB	EET BUF	03/05/25 13:44

Client Sample ID: MW-6
Lab Sample ID: 480-227586-6
Date Collected: 02/27/25 15:30
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	739933	ERS	EET BUF	03/03/25 16:26
Total/NA	Prep	3510C			739963	LSC	EET BUF	03/03/25 13:44
Total/NA	Analysis	8270D		1	740093	JMM	EET BUF	03/06/25 08:25
Total/NA	Prep	3510C			740178	DP	EET BUF	03/06/25 06:41
Total/NA	Analysis	8270D SIM ID		1	740218	JMM	EET BUF	03/06/25 18:04
Total/NA	Prep	3510C			740242	LSC	EET BUF	03/06/25 13:42
Total/NA	Analysis	8081B		1	740373	JLS	EET BUF	03/10/25 14:11
Total/NA	Prep	3510C			739973	SMP	EET BUF	03/04/25 06:40
Total/NA	Analysis	8082A		1	739978	W1T	EET BUF	03/04/25 21:53
Total/NA	Prep	8151A			739997	JMP	EET BUF	03/04/25 09:32
Total/NA	Analysis	8151A		1	740110	JLS	EET BUF	03/05/25 13:45

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: MW-6
Lab Sample ID: 480-227586-6
Date Collected: 02/27/25 15:30
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			647079	KML	EET CLE	03/06/25 09:19
Total/NA	Analysis	1633		1	647184	DSH	EET CLE	03/07/25 00:48
Total/NA	Prep	3005A			739892	EMO	EET BUF	03/03/25 08:07
Total/NA	Analysis	6010C		1	739981	BMB	EET BUF	03/03/25 16:41
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	739981	BMB	EET BUF	03/03/25 16:00
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	740058	ESB	EET BUF	03/04/25 17:13
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	7470A			739994	EMO	EET BUF	03/04/25 10:22
Dissolved	Analysis	7470A		1	740068	ESB	EET BUF	03/04/25 14:55
Total/NA	Prep	7470A			740071	ESB	EET BUF	03/05/25 09:29
Total/NA	Analysis	7470A		1	740164	ESB	EET BUF	03/05/25 13:45

Client Sample ID: BD
Lab Sample ID: 480-227586-7
Date Collected: 02/27/25 13:45
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	739933	ERS	EET BUF	03/03/25 16:51
Total/NA	Prep	3510C			739963	LSC	EET BUF	03/03/25 13:44
Total/NA	Analysis	8270D		1	740093	JMM	EET BUF	03/06/25 08:51
Total/NA	Prep	3510C			740178	DP	EET BUF	03/06/25 06:41
Total/NA	Analysis	8270D SIM ID		1	740218	JMM	EET BUF	03/06/25 18:25
Total/NA	Prep	3510C			740242	LSC	EET BUF	03/06/25 13:42
Total/NA	Analysis	8081B		1	740373	JLS	EET BUF	03/10/25 14:30
Total/NA	Prep	3510C			739973	SMP	EET BUF	03/04/25 06:40
Total/NA	Analysis	8082A		1	739978	W1T	EET BUF	03/04/25 22:12
Total/NA	Prep	8151A			739997	JMP	EET BUF	03/04/25 09:32
Total/NA	Analysis	8151A		1	740110	JLS	EET BUF	03/05/25 14:23
Total/NA	Prep	1633			647079	KML	EET CLE	03/06/25 09:19
Total/NA	Analysis	1633		1	647184	DSH	EET CLE	03/07/25 01:05
Total/NA	Prep	3005A			739892	EMO	EET BUF	03/03/25 08:07
Total/NA	Analysis	6010C		1	739981	BMB	EET BUF	03/03/25 16:43
Total/NA	Prep	3005A			739892	EMO	EET BUF	03/03/25 08:07
Total/NA	Analysis	6010C		5	740058	ESB	EET BUF	03/04/25 16:18
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	739981	BMB	EET BUF	03/03/25 16:02
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		1	740058	ESB	EET BUF	03/04/25 17:15

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Client Sample ID: BD
Lab Sample ID: 480-227586-7
Date Collected: 02/27/25 13:45
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	3005A			739891	EMO	EET BUF	03/03/25 08:04
Dissolved	Analysis	6010D		5	740058	ESB	EET BUF	03/04/25 17:16
Dissolved	Filtration	FILTRATION			739887	EMO	EET BUF	02/28/25 14:26
Dissolved	Prep	7470A			739994	EMO	EET BUF	03/04/25 10:22
Dissolved	Analysis	7470A		1	740068	ESB	EET BUF	03/04/25 14:57
Total/NA	Prep	7470A			740071	ESB	EET BUF	03/05/25 09:29
Total/NA	Analysis	7470A		1	740164	ESB	EET BUF	03/05/25 13:46

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 480-227586-8
Date Collected: 02/27/25 10:00
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			647079	KML	EET CLE	03/06/25 09:19
Total/NA	Analysis	1633		1	647184	DSH	EET CLE	03/07/25 01:21

Client Sample ID: FIELD BLANK
Lab Sample ID: 480-227586-9
Date Collected: 02/27/25 15:45
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			647079	KML	EET CLE	03/06/25 09:19
Total/NA	Analysis	1633		1	647184	DSH	EET CLE	03/07/25 01:38

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-227586-10
Date Collected: 02/27/25 09:00
Matrix: Water
Date Received: 02/28/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	739933	ERS	EET BUF	03/03/25 17:15

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8151A	8151A	Water	Picloram

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-01-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Method Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
8151A	Herbicides (GC)	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
6010D	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
1633	Solid-Phase Extraction (SPE)	EPA	EET CLE
3005A	Preparation, Total Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF
FILTRATION	Sample Filtration	None	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227586-1	MW-1	Water	02/27/25 12:45	02/28/25 13:20
480-227586-2	MW-2	Water	02/27/25 11:00	02/28/25 13:20
480-227586-3	MW-3	Water	02/27/25 14:15	02/28/25 13:20
480-227586-4	MW-4	Water	02/27/25 13:30	02/28/25 13:20
480-227586-5	MW-5	Water	02/27/25 15:00	02/28/25 13:20
480-227586-6	MW-6	Water	02/27/25 15:30	02/28/25 13:20
480-227586-7	BD	Water	02/27/25 13:45	02/28/25 13:20
480-227586-8	EQUIPMENT BLANK	Water	02/27/25 10:00	02/28/25 13:20
480-227586-9	FIELD BLANK	Water	02/27/25 15:45	02/28/25 13:20
480-227586-10	TRIP BLANK	Water	02/27/25 09:00	02/28/25 13:20

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information

Client Contact: Bryan Mayback	Sampler: NICK Succi	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-202128-41519.1
Company: Roux Environmental Engineering and Geology DPC	Phone: 716-713-3937	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Address: 2558 Hamburg Turnpike Suite 300	PWSID:	Due Date Requested: Standard		Job #:
City: Lackawanna		TAT Requested (days):		
State, Zip: NY, 14218		Compliance Project: Δ Yes Δ No		
Phone:		PO #: Purchase Order Requested		
Email: bmayback@rouxinc.com		WO #:		
Project Name: North Aud Block - GW		Project #: 48028442		
Site:		SSOW#:		

Analysis Requested

Preservation Codes:
N - None
D - HNO3
A - HCL

480-227586 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - 1633 Standard List of 40	8082A - TCL PCBs	8081B - TCL Pesticides	8270D - SVOA	8270D_SIM_MS_ID - 1,4-D	6010C, 7470A	8260C - VOCs	8151A - Herbs	6010D, 7470A	Total Number of c	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	D	A	N	N		
MW-1	2/27/25	1245	G	Water			X	X	X	X	X	X	X	X	X		
MW-2	2/27/25	1100		Water		X	X	X	X	X	X	X	X	X	X		
MW-3	2/27/25	1415		Water			X	X	X	X	X	X	X	X	X		
MW-4	2/27/25	1330		Water			X	X	X	X	X	X	X	X	X		
MW-5	2/27/25	1500		Water			X	X	X	X	X	X	X	X	X		
MW-6	2/27/25	1530		Water			X	X	X	X	X	X	X	X	X		
BP	2/27/25	1345		Water			X	X	X	X	X	X	X	X	X		
Equipment Blank	2/27/25	1000		Water			X										
Field Blank	2/27/25	1545		Water			X										
Trip Blank	2/27/25	9:00		Water									X				
				Water													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYSDec eQuis

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 2/28/25 16:30	Company: Roux	Received by:	Date/Time: 2/28/25 10:30	Company: EET	
Relinquished by:	Date/Time: 2/28/25 1320	Company: EET	Received by:	Date/Time: 2/28/25 1320	Company: EET	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.2 1.4 2.8 3.1 1.1 1.6 IR24sc1ct

Ver: 10/10/2024

Eurofins Buffalo 3.4 13.6
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer Brian J	Carrier Tracking No(s): N/A	COC No: 480-91554.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 2
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-227586-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 3/20/2025			Preservation Codes:
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-1 (480-227586-1)	2/27/25	12.45 Eastern	G	Water			X	3	
MW-2 (480-227586-2)	2/27/25	11:00 Eastern	G	Water			X	3	
MW-2 (480-227586-2MS)	2/27/25	11:00 Eastern	G	Water			X	3	
MW-2 (480-227586-2MSD)	2/27/25	11:00 Eastern	G	Water			X	3	
MW-3 (480-227586-3)	2/27/25	14.15 Eastern	G	Water			X	3	
MW-4 (480-227586-4)	2/27/25	13:30 Eastern	G	Water			X	3	
MW-5 (480-227586-5)	2/27/25	15:00 Eastern	G	Water			X	3	
MW-6 (480-227586-6)	2/27/25	15:30 Eastern	G	Water			X	3	
BD (480-227586-7)	2/27/25	13:45 Eastern	G	Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3-4-25 1600		[signature]	3/5/25 945	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer Brian J	Carrier Tracking No(s): N/A	COC No: 480-91554.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mai: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 2 of 2
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-227586-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 3/20/2025			Preservation Codes:
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Emai: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EQUIPMENT BLANK (480-227586-8)	2/27/25	10:00 Eastern	G	Water			X	3	
FIELD BLANK (480-227586-9)	2/27/25	15:45 Eastern	G	Water			X	3	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			JF	3/5/25 945	Euro
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client Interlab Buf Site Name

Cooler unpacked by: VT

Cooler Received on 3/5/25 Opened on 3/5/25

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13 (CF +0 °C) Observed Cooler Temp 3.6 °C Corrected Cooler Temp 3.6 °C

2.	Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes No
	-Were the seals on the outside of the cooler(s) signed & dated?	Yes No NA
	-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes No
	-Were tamper/custody seals intact and uncompromised?	Yes No NA
3	Shippers' packing slip attached to the cooler(s)?	Yes No
4.	Did custody papers accompany the sample(s)?	Yes No
5	Were the custody papers relinquished & signed in the appropriate place?	Yes No
6.	Was/were the person(s) who collected the samples clearly identified on the COC?	Yes No
7	Did all bottles arrive in good condition (Unbroken)?	Yes No
8	Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes No
9	For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?	
10	Were correct bottle(s) used for the test(s) indicated?	Yes No
11	Sufficient quantity received to perform indicated analyses?	Yes No
12	Are these work share samples and all listed on the COC?	Yes No
	If yes, Questions 13-17 have been checked at the originating laboratory	
13	Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA pH Strip Lot# HC448976
14	Were VOAs on the COC?	Yes No
15	Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes No NA
16	Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No
17	Was a LL Hg or Me Hg trip blank present?	Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen.

EUROFINS ENVIRONMEN
10 HAZELWOOD DRIVE

BUFFALO NY 142282223
UNITED STATES US

DIMS 23X15X14 IN
BILL SENDER

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF BARBERTON

FedEx
Express

WED - 05 MAR 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7463 0662 5486

XP CAKA

44203
OH-US CLE

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-227586-1

Login Number: 227586
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ROUX
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Generated 3/28/2025 2:59:33 PM

JOB DESCRIPTION

North Aud Block

JOB NUMBER

480-227982-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

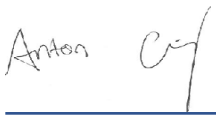
Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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3/28/2025 2:59:33 PM

Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 9
Surrogate Summary 16
Isotope Dilution Summary 18
QC Sample Results 19
QC Association Summary 39
Lab Chronicle 42
Certification Summary 43
Method Summary 44
Sample Summary 45
Chain of Custody 46
Receipt Checklists 51

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-227982-1 Eurofins Buffalo

Job Narrative
480-227982-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 3/19/2025 9:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4°C and 2.7°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-741229 recovered above the upper control limit for 2-Hexanone, Chloromethane and 4-Methyl-2-pentanone (MIBK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: RISB-1 0.5-2.5FT (480-227982-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to color, appearance, and viscosity: RISB-1 0.5-2.5FT (480-227982-1). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: The following sample required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: RISB-1 0.5-2.5FT (480-227982-1).

Method 8081B: The following sample was diluted due to the nature of the sample matrix : RISB-1 0.5-2.5FT (480-227982-1). As such, surrogate recoveries are below the calibration range, estimated, and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: The method blank for preparation batch 480-741325 and analytical batch 480-741379 contained 4,4'-DDT above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Buffalo

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227982-1
Project/Site: North Aud Block

Client Sample ID: RISB-1 0.5-2.5FT
Lab Sample ID: 480-227982-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	420	J	870	210	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1500		870	87	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1400		870	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1700		870	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	830	J	870	92	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	760	J	870	110	ug/Kg	5	☼	8270D	Total/NA
Carbazole	120	J	870	100	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1500		870	190	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	220	J	870	150	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	3400		870	92	ug/Kg	5	☼	8270D	Total/NA
Fluorene	130	J	870	100	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	680	J	870	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	1800		870	130	ug/Kg	5	☼	8270D	Total/NA
Pyrene	3000		870	100	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDE	7.3	J	17	3.7	ug/Kg	10	☼	8081B	Total/NA
Endosulfan sulfate	3.5	J	17	3.3	ug/Kg	10	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	0.22	J	0.52	0.13	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.050	J	0.13	0.033	ug/Kg	1	☼	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.097	J	0.13	0.033	ug/Kg	1	☼	1633	Total/NA
Aluminum	9280		10.2	8.8	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.9		2.0	0.90	mg/Kg	1	☼	6010C	Total/NA
Barium	83.6		0.54	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.44		0.22	0.043	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.39	B	0.20	0.071	mg/Kg	1	☼	6010C	Total/NA
Calcium	42000		53.8	29.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.0		0.54	0.39	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.5		0.54	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	38.2		1.0	0.58	mg/Kg	1	☼	6010C	Total/NA
Iron	15000		10.2	8.6	mg/Kg	1	☼	6010C	Total/NA
Lead	168		1.0	0.47	mg/Kg	1	☼	6010C	Total/NA
Magnesium	14000	F1 F2	20.4	8.6	mg/Kg	1	☼	6010C	Total/NA
Manganese	349	F1	1.0	0.29	mg/Kg	1	☼	6010C	Total/NA
Nickel	16.6		5.4	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	2270		30.6	24.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	173		143	62.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	18.8		0.51	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	125		2.0	1.0	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.45		0.021	0.0049	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227982-1
Project/Site: North Aud Block

Client Sample ID: RISB-1 0.5-2.5FT
Lab Sample ID: 480-227982-1
Date Collected: 03/18/25 11:00
Matrix: Solid
Date Received: 03/19/25 09:00
Percent Solids: 95.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.8	0.28	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,1,2,2-Tetrachloroethane	ND		3.8	0.61	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.8	0.86	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,1,2-Trichloroethane	ND		3.8	0.49	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,1-Dichloroethane	ND		3.8	0.46	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,1-Dichloroethene	ND		3.8	0.46	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,2,4-Trichlorobenzene	ND		3.8	0.23	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,2,4-Trimethylbenzene	ND		3.8	0.73	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.9	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,2-Dichlorobenzene	ND		3.8	0.30	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,2-Dichloroethane	ND		3.8	0.19	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,2-Dichloropropane	ND		3.8	1.9	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,3,5-Trimethylbenzene	ND		3.8	0.24	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,3-Dichlorobenzene	ND		3.8	0.19	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,4-Dichlorobenzene	ND		3.8	0.53	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
2-Butanone (MEK)	ND		19	1.4	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
2-Hexanone	ND		19	1.9	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
4-Isopropyltoluene	ND		3.8	0.30	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
4-Methyl-2-pentanone (MIBK)	ND		19	1.2	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Acetone	ND		19	3.2	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Benzene	ND		3.8	0.19	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Bromoform	ND		3.8	1.9	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Bromomethane	ND		3.8	0.34	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Carbon disulfide	ND		3.8	1.9	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Carbon tetrachloride	ND		3.8	0.37	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Chlorobenzene	ND		3.8	0.50	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Dibromochloromethane	ND		3.8	0.48	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Chloroethane	ND		3.8	0.86	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Chloroform	ND		3.8	0.23	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Chloromethane	ND		3.8	0.23	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
cis-1,2-Dichloroethene	ND		3.8	0.48	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Cyclohexane	ND		3.8	0.53	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Bromodichloromethane	ND		3.8	0.51	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Dichlorodifluoromethane	ND		3.8	0.31	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Ethylbenzene	ND		3.8	0.26	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
1,2-Dibromoethane	ND		3.8	0.49	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Isopropylbenzene	ND		3.8	0.57	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Methyl acetate	ND		19	2.3	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Methyl tert-butyl ether	ND		3.8	0.37	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Methylcyclohexane	ND		3.8	0.58	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Methylene Chloride	ND		3.8	1.7	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
m,p-Xylene	ND		7.6	0.64	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Naphthalene	ND		3.8	0.51	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
n-Butylbenzene	ND		3.8	0.33	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
N-Propylbenzene	ND		3.8	0.30	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
o-Xylene	ND		3.8	0.49	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
sec-Butylbenzene	ND		3.8	0.33	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Tetrachloroethene	ND		3.8	0.51	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Toluene	ND		3.8	0.29	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1

Client Sample ID: RISB-1 0.5-2.5FT
Lab Sample ID: 480-227982-1
Date Collected: 03/18/25 11:00
Matrix: Solid
Date Received: 03/19/25 09:00
Percent Solids: 95.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		3.8	0.39	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
trans-1,3-Dichloropropene	ND		3.8	1.7	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Trichloroethene	ND		3.8	0.83	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Trichlorofluoromethane	ND		3.8	0.36	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Vinyl chloride	ND		3.8	0.46	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Xylenes, Total	ND		7.6	0.64	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
cis-1,3-Dichloropropene	ND		3.8	0.55	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
Styrene	ND		3.8	0.19	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1
tert-Butylbenzene	ND		3.8	0.39	ug/Kg	☼	03/19/25 13:55	03/19/25 21:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*03/19/25 13:55*	*03/19/25 21:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*64 - 126*	*03/19/25 13:55*	*03/19/25 21:40*	*1*
4-Bromofluorobenzene (Surr)	*88*		*72 - 126*	*03/19/25 13:55*	*03/19/25 21:40*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*03/19/25 13:55*	*03/19/25 21:40*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*	*03/19/25 13:55*	*03/19/25 21:40*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		870	130	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
bis (2-chloroisopropyl) ether	ND		870	170	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2,4,5-Trichlorophenol	ND		870	240	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2,4,6-Trichlorophenol	ND		870	170	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2,4-Dichlorophenol	ND		870	92	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2,4-Dimethylphenol	ND		870	210	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2,4-Dinitrophenol	ND		8500	4000	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2,4-Dinitrotoluene	ND		870	180	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2,6-Dinitrotoluene	ND		870	100	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2-Chloronaphthalene	ND		870	140	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
1,4-Dioxane	ND		510	280	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2-Chlorophenol	ND		1700	160	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2-Methylnaphthalene	ND		870	170	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2-Methylphenol	ND		870	100	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2-Nitroaniline	ND		1700	130	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
2-Nitrophenol	ND		870	250	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
3,3'-Dichlorobenzidine	ND		1700	1000	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
3-Nitroaniline	ND		1700	240	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
4,6-Dinitro-2-methylphenol	ND		1700	870	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
4-Bromophenyl phenyl ether	ND		870	120	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
4-Chloro-3-methylphenol	ND		870	210	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
4-Chloroaniline	ND		870	210	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
4-Chlorophenyl phenyl ether	ND		870	110	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
4-Methylphenol	ND		1700	100	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
4-Nitroaniline	ND		1700	460	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
4-Nitrophenol	ND		1700	610	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Acenaphthene	ND		870	130	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Acenaphthylene	ND		870	110	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Acetophenone	ND		870	120	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5

Client Sample ID: RISB-1 0.5-2.5FT
Lab Sample ID: 480-227982-1
Date Collected: 03/18/25 11:00
Matrix: Solid
Date Received: 03/19/25 09:00
Percent Solids: 95.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**420**	**J**	870	210	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Atrazine	ND		870	300	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Benzaldehyde	ND		870	690	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Benzo[a]anthracene	**1500**		870	87	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Benzo[a]pyrene	**1400**		870	130	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Benzo[b]fluoranthene	**1700**		870	140	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Benzo[g,h,i]perylene	**830**	**J**	870	92	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Benzo[k]fluoranthene	**760**	**J**	870	110	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Bis(2-chloroethoxy)methane	ND		870	180	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Bis(2-chloroethyl)ether	ND		870	110	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Bis(2-ethylhexyl) phthalate	ND		870	300	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Butyl benzyl phthalate	ND		870	140	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Caprolactam	ND		870	260	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Carbazole	**120**	**J**	870	100	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Chrysene	**1500**		870	190	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Di-n-butyl phthalate	ND		870	150	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Di-n-octyl phthalate	ND		870	100	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Dibenz(a,h)anthracene	**220**	**J**	870	150	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Dibenzofuran	ND		870	100	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Diethyl phthalate	ND		870	110	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Dimethyl phthalate	ND		870	100	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Fluoranthene	**3400**		870	92	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Fluorene	**130**	**J**	870	100	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Hexachlorobenzene	ND		870	120	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Hexachlorobutadiene	ND		870	130	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Hexachlorocyclopentadiene	ND		870	120	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Hexachloroethane	ND		870	110	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Indeno[1,2,3-cd]pyrene	**680**	**J**	870	110	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Isophorone	ND		870	180	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
N-Nitrosodi-n-propylamine	ND		870	150	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
N-Nitrosodiphenylamine	ND		870	710	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Naphthalene	ND		870	110	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Nitrobenzene	ND		870	97	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Pentachlorophenol	ND		1700	870	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Phenanthrene	**1800**		870	130	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Phenol	ND		870	130	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5
Pyrene	**3000**		870	100	ug/Kg	☼	03/21/25 06:35	03/24/25 15:46	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1000*	*T J*	*ug/Kg*	☼	*3.48*	*N/A*	*03/21/25 06:35*	*03/24/25 15:46*	*5*
Benzo[e]pyrene	*940*	*T J N*	*ug/Kg*	☼	*14.43*	*192-97-2*	*03/21/25 06:35*	*03/24/25 15:46*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*26 - 143*	*03/21/25 06:35*	*03/24/25 15:46*	*5*
2-Fluorobiphenyl	*83*		*50 - 121*	*03/21/25 06:35*	*03/24/25 15:46*	*5*
2-Fluorophenol	*70*		*36 - 120*	*03/21/25 06:35*	*03/24/25 15:46*	*5*
Nitrobenzene-d5	*76*		*40 - 121*	*03/21/25 06:35*	*03/24/25 15:46*	*5*
p-Terphenyl-d14	*87*		*46 - 143*	*03/21/25 06:35*	*03/24/25 15:46*	*5*
Phenol-d5	*75*		*41 - 120*	*03/21/25 06:35*	*03/24/25 15:46*	*5*

Client Sample ID: RISB-1 0.5-2.5FT
Lab Sample ID: 480-227982-1

Date Collected: 03/18/25 11:00
Matrix: Solid

Date Received: 03/19/25 09:00
Percent Solids: 95.5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		17	3.4	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
4,4'-DDE	**7.3**	**J**	17	3.7	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
4,4'-DDT	ND		17	4.1	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Aldrin	ND		17	4.3	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
alpha-BHC	ND		17	3.1	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
cis-Chlordane	ND		17	8.7	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
beta-BHC	ND		17	3.1	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
delta-BHC	ND		17	3.2	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Dieldrin	ND		17	4.2	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Endosulfan I	ND		17	3.3	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Endosulfan II	ND		17	3.1	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Endosulfan sulfate	**3.5**	**J**	17	3.3	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Endrin	ND		17	3.5	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Endrin aldehyde	ND		17	4.5	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Endrin ketone	ND		17	4.3	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
gamma-BHC (Lindane)	ND		17	3.2	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
trans-Chlordane	ND		17	5.5	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Heptachlor	ND		17	3.8	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Heptachlor epoxide	ND		17	4.5	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Methoxychlor	ND		17	3.6	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10
Toxaphene	ND		170	100	ug/Kg	☼	03/20/25 13:29	03/21/25 10:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*45 - 120*	*03/20/25 13:29*	*03/21/25 10:38*	*10*
DCB Decachlorobiphenyl	*217*	*S1+*	*45 - 120*	*03/20/25 13:29*	*03/21/25 10:38*	*10*
Tetrachloro-m-xylene	*58*		*30 - 124*	*03/20/25 13:29*	*03/21/25 10:38*	*10*
Tetrachloro-m-xylene	*85*		*30 - 124*	*03/20/25 13:29*	*03/21/25 10:38*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.18	0.035	mg/Kg	☼	03/20/25 06:50	03/21/25 13:21	1
PCB-1221	ND		0.18	0.035	mg/Kg	☼	03/20/25 06:50	03/21/25 13:21	1
PCB-1232	ND		0.18	0.035	mg/Kg	☼	03/20/25 06:50	03/21/25 13:21	1
PCB-1242	ND		0.18	0.035	mg/Kg	☼	03/20/25 06:50	03/21/25 13:21	1
PCB-1248	ND		0.18	0.035	mg/Kg	☼	03/20/25 06:50	03/21/25 13:21	1
PCB-1254	ND		0.18	0.084	mg/Kg	☼	03/20/25 06:50	03/21/25 13:21	1
PCB-1260	ND		0.18	0.084	mg/Kg	☼	03/20/25 06:50	03/21/25 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*127*		*60 - 154*	*03/20/25 06:50*	*03/21/25 13:21*	*1*
Tetrachloro-m-xylene	*126*		*60 - 154*	*03/20/25 06:50*	*03/21/25 13:21*	*1*
DCB Decachlorobiphenyl	*121*		*65 - 174*	*03/20/25 06:50*	*03/21/25 13:21*	*1*
DCB Decachlorobiphenyl	*125*		*65 - 174*	*03/20/25 06:50*	*03/21/25 13:21*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.4	ug/Kg	☼	03/20/25 06:47	03/24/25 13:59	1
Silvex (2,4,5-TP)	ND		17	6.1	ug/Kg	☼	03/20/25 06:47	03/24/25 13:59	1
2,4-D	ND		17	11	ug/Kg	☼	03/20/25 06:47	03/24/25 13:59	1
Dichlorprop	ND		17	8.4	ug/Kg	☼	03/20/25 06:47	03/24/25 13:59	1

Client Sample ID: RISB-1 0.5-2.5FT
Lab Sample ID: 480-227982-1
Date Collected: 03/18/25 11:00
Matrix: Solid
Date Received: 03/19/25 09:00
Percent Solids: 95.5

Method: SW846 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		17	5.5	ug/Kg	☼	03/20/25 06:47	03/24/25 13:59	1
Picloram	ND		17	7.3	ug/Kg	☼	03/20/25 06:47	03/24/25 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*03/20/25 06:47*	*03/24/25 13:59*	*1*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*03/20/25 06:47*	*03/24/25 13:59*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.22**	**J**	0.52	0.13	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluoropentanoic acid (PFPeA)	ND		0.26	0.065	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorohexanoic acid (PFHxA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluoroheptanoic acid (PFHpA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorooctanoic acid (PFOA)	**0.050**	**J**	0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorononanoic acid (PFNA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorodecanoic acid (PFDA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluoroundecanoic acid (PFUnA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorododecanoic acid (PFDoA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorooctanesulfonic acid (PFOS)	**0.097**	**J**	0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorononanesulfonic acid (PFNS)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.52	0.13	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.52	0.13	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.52	0.13	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.3	0.33	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.3	0.33	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.52	0.13	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.52	0.13	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1

Client Sample ID: RISB-1 0.5-2.5FT
Lab Sample ID: 480-227982-1
Date Collected: 03/18/25 11:00
Matrix: Solid
Date Received: 03/19/25 09:00
Percent Solids: 95.5

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.26	0.065	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.26	0.065	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.52	0.13	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.52	0.13	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.26	0.065	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.65	0.16	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.3	0.82	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.3	0.82	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.13	0.033	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.26	0.065	ug/Kg	☼	03/25/25 07:49	03/25/25 14:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92.6*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C5 PFPeA	*90.2*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C5 PFHxA	*88.7*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C4 PFHpA	*99.7*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C8 PFOA	*90.9*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C9 PFNA	*91.4*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C6 PFDA	*101*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C7 PFUnA	*102*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C2 PFTeDA	*87.4*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C3 PFBS	*85.6*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C3 PFHxS	*80.5*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C8 PFOS	*90.7*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C8 PFOSA	*87.8*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
d3-NMeFOSAA	*97.0*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
d5-NEtFOSAA	*91.1*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
M2-4:2 FTS	*96.7*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
M2-6:2 FTS	*112*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
M2-8:2 FTS	*99.2*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C3 HFPO-DA	*87.7*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
d7-N-MeFOSE-M	*59.3*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
d9-N-EtFOSE-M	*54.1*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
d5-NEtPFOSA	*68.0*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
D3-NMeFOSA	*77.5*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*
13C2-PFDoDA	*92.3*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:56*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9280**		10.2	8.8	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Antimony	ND	F1	15.3	0.54	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Arsenic	**4.9**		2.0	0.90	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Barium	**83.6**		0.54	0.15	mg/Kg	☼	03/24/25 15:46	03/25/25 14:51	1
Beryllium	**0.44**		0.22	0.043	mg/Kg	☼	03/24/25 15:46	03/25/25 14:51	1

Client Sample ID: RISB-1 0.5-2.5FT
Lab Sample ID: 480-227982-1
Date Collected: 03/18/25 11:00
Matrix: Solid
Date Received: 03/19/25 09:00
Percent Solids: 95.5

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.39	B	0.20	0.071	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Calcium	42000		53.8	29.0	mg/Kg	☼	03/24/25 15:46	03/25/25 14:51	1
Chromium	16.0		0.54	0.39	mg/Kg	☼	03/24/25 15:46	03/25/25 14:51	1
Cobalt	6.5		0.54	0.11	mg/Kg	☼	03/24/25 15:46	03/25/25 14:51	1
Copper	38.2		1.0	0.58	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Iron	15000		10.2	8.6	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Lead	168		1.0	0.47	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Magnesium	14000	F1 F2	20.4	8.6	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Manganese	349	F1	1.0	0.29	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Nickel	16.6		5.4	0.27	mg/Kg	☼	03/24/25 15:46	03/25/25 14:51	1
Potassium	2270		30.6	24.7	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Selenium	ND		4.1	0.81	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Silver	ND		0.61	0.20	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Sodium	173		143	62.4	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Thallium	ND		6.1	0.77	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Vanadium	18.8		0.51	0.13	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1
Zinc	125		2.0	1.0	mg/Kg	☼	03/20/25 14:00	03/21/25 12:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.45		0.021	0.0049	mg/Kg	☼	03/20/25 09:38	03/20/25 11:04	1

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227982-1
Project/Site: North Aud Block

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-227982-1	RISB-1 0.5-2.5FT	111	88	100	103
LCS 480-741200/1-A	Lab Control Sample	106	89	104	101
MB 480-741200/3-A	Method Blank	106	93	103	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(46-143)	(41-120)
480-227982-1	RISB-1 0.5-2.5FT	71	83	70	76	87	75
LCS 480-741378/2-A	Lab Control Sample	97	89	81	83	99	88
MB 480-741378/1-A	Method Blank	84	89	80	84	99	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-227982-1	RISB-1 0.5-2.5FT	93	217 S1+	58	85
LCS 480-741325/2-A	Lab Control Sample	90	89	60	67
MB 480-741325/1-A	Method Blank	96	92	68	72

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-227982-1	RISB-1 0.5-2.5FT	127	126	121	125
480-227982-1 MS	RISB-1 0.5-2.5FT	114	120	88	117
480-227982-1 MSD	RISB-1 0.5-2.5FT	94	90	88	93
LCS 480-741249/2-A	Lab Control Sample	152	154	156	160

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227982-1
Project/Site: North Aud Block

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
MB 480-741249/1-A	Method Blank	151	150	148	149

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPAA1 (28-129)	DCPAA2 (28-129)
480-227982-1	RISB-1 0.5-2.5FT	70	69
480-227982-1 MS	RISB-1 0.5-2.5FT	71	71
480-227982-1 MSD	RISB-1 0.5-2.5FT	80	74
LCS 480-741248/2-A	Lab Control Sample	74	76
MB 480-741248/1-A	Method Blank	73	77

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227982-1
Project/Site: North Aud Block

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
480-227982-1	RISB-1 0.5-2.5FT	92.6	90.2	88.7	99.7	90.9	91.4	101	102
LCS 240-649443/3-A	Lab Control Sample	99.1	94.9	95.4	106	90.3	91.5	105	101
LLCS 240-649443/2-A	Lab Control Sample	83.4	76.9	75.1	79.0	72.0	68.6	77.3	76.3
MB 240-649443/1-A	Method Blank	99.8	98.7	98.3	103	98.0	93.5	107	103

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)
480-227982-1	RISB-1 0.5-2.5FT	87.4	85.6	80.5	90.7	87.8	97.0	91.1	96.7
LCS 240-649443/3-A	Lab Control Sample	87.9	99.1	91.3	96.5	89.0	99.5	91.4	102
LLCS 240-649443/2-A	Lab Control Sample	73.3	73.6	67.3	70.4	67.8	72.5	68.4	83.7
MB 240-649443/1-A	Method Blank	94.6	102	97.7	99.5	93.3	101	97.6	106

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)	PFDoDA (20-150)
480-227982-1	RISB-1 0.5-2.5FT	112	99.2	87.7	59.3	54.1	68.0	77.5	92.3
LCS 240-649443/3-A	Lab Control Sample	115	106	95.1	57.2	50.7	69.2	79.3	93.4
LLCS 240-649443/2-A	Lab Control Sample	86.2	77.1	80.0	45.1	44.1	50.2	58.8	72.2
MB 240-649443/1-A	Method Blank	122	109	99.9	73.4	65.9	68.5	80.9	94.6

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = D3-NMeFOSA
PFDoDA = 13C2-PFDoDA

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227982-1
Project/Site: North Aud Block

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-741200/3-A
Matrix: Solid
Analysis Batch: 741229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
2-Hexanone	ND		25	2.5	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Acetone	ND		25	4.2	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Benzene	ND		5.0	0.25	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Bromoform	ND		5.0	2.5	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Bromomethane	ND		5.0	0.45	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Chloroethane	ND		5.0	1.1	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Chloroform	0.321	J	5.0	0.31	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Chloromethane	ND		5.0	0.30	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Cyclohexane	ND		5.0	0.70	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Methyl acetate	ND		25	3.0	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
m,p-Xylene	ND		10	0.84	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Naphthalene	ND		5.0	0.67	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
o-Xylene	ND		5.0	0.65	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/19/25 13:55	03/19/25 21:17	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-741200/3-A
Matrix: Solid
Analysis Batch: 741229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0	0.38	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Trichloroethene	ND		5.0	1.1	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Xylenes, Total	ND		10	0.84	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
Styrene	ND		5.0	0.25	ug/Kg		03/19/25 13:55	03/19/25 21:17	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		03/19/25 13:55	03/19/25 21:17	1

Tentatively Identified Compound	*Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*9.14*	*T J*	*ug/Kg*		*8.26*	*N/A*	*03/19/25 13:55*	*03/19/25 21:17*	*1*
Unknown	*7.13*	*T J*	*ug/Kg*		*9.06*	*N/A*	*03/19/25 13:55*	*03/19/25 21:17*	*1*
Unknown	*8.41*	*T J*	*ug/Kg*		*10.20*	*N/A*	*03/19/25 13:55*	*03/19/25 21:17*	*1*
Naphthalene, 1-methyl-	*7.66*	*T J N*	*ug/Kg*		*12.04*	*90-12-0*	*03/19/25 13:55*	*03/19/25 21:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*03/19/25 13:55*	*03/19/25 21:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*	*03/19/25 13:55*	*03/19/25 21:17*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/19/25 13:55*	*03/19/25 21:17*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*03/19/25 13:55*	*03/19/25 21:17*	*1*

Lab Sample ID: LCS 480-741200/1-A
Matrix: Solid
Analysis Batch: 741229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741200

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	43.3		ug/Kg		87	77 - 121
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/Kg		101	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.5		ug/Kg		87	60 - 140
1,1,2-Trichloroethane	50.0	46.7		ug/Kg		93	78 - 122
1,1-Dichloroethane	50.0	47.3		ug/Kg		95	73 - 126
1,1-Dichloroethene	50.0	43.2		ug/Kg		86	59 - 125
1,2,4-Trichlorobenzene	50.0	46.8		ug/Kg		94	64 - 120
1,2,4-Trimethylbenzene	50.0	50.7		ug/Kg		101	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	52.0		ug/Kg		104	63 - 124
1,2-Dichlorobenzene	50.0	46.9		ug/Kg		94	75 - 120
1,2-Dichloroethane	50.0	46.9		ug/Kg		94	77 - 122
1,2-Dichloropropane	50.0	48.1		ug/Kg		96	75 - 124
1,3,5-Trimethylbenzene	50.0	51.2		ug/Kg		102	74 - 120
1,3-Dichlorobenzene	50.0	46.4		ug/Kg		93	74 - 120
1,4-Dichlorobenzene	50.0	45.4		ug/Kg		91	73 - 120
2-Butanone (MEK)	250	270		ug/Kg		108	70 - 134
2-Hexanone	250	290		ug/Kg		116	59 - 130
4-Isopropyltoluene	50.0	49.6		ug/Kg		99	74 - 120
4-Methyl-2-pentanone (MIBK)	250	295		ug/Kg		118	65 - 133

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-741200/1-A
Matrix: Solid
Analysis Batch: 741229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741200

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	250		ug/Kg		100	61 - 137
Benzene	50.0	44.9		ug/Kg		90	79 - 127
Bromoform	50.0	45.6		ug/Kg		91	68 - 126
Bromomethane	50.0	41.4		ug/Kg		83	37 - 149
Carbon disulfide	50.0	43.0		ug/Kg		86	64 - 131
Carbon tetrachloride	50.0	43.4		ug/Kg		87	75 - 135
Chlorobenzene	50.0	44.0		ug/Kg		88	76 - 124
Dibromochloromethane	50.0	48.9		ug/Kg		98	76 - 125
Chloroethane	50.0	45.3		ug/Kg		91	69 - 135
Chloroform	50.0	43.6		ug/Kg		87	80 - 120
Chloromethane	50.0	50.7		ug/Kg		101	63 - 127
cis-1,2-Dichloroethene	50.0	43.1		ug/Kg		86	81 - 120
Cyclohexane	50.0	51.1		ug/Kg		102	65 - 120
Bromodichloromethane	50.0	46.4		ug/Kg		93	80 - 122
Dichlorodifluoromethane	50.0	40.6		ug/Kg		81	57 - 142
Ethylbenzene	50.0	45.6		ug/Kg		91	80 - 120
1,2-Dibromoethane	50.0	44.5		ug/Kg		89	78 - 120
Isopropylbenzene	50.0	52.7		ug/Kg		105	72 - 120
Methyl acetate	100	105		ug/Kg		105	55 - 136
Methyl tert-butyl ether	50.0	44.0		ug/Kg		88	63 - 125
Methylcyclohexane	50.0	45.2		ug/Kg		90	60 - 140
Methylene Chloride	50.0	45.1		ug/Kg		90	61 - 127
m,p-Xylene	50.0	44.6		ug/Kg		89	70 - 130
Naphthalene	50.0	50.2		ug/Kg		100	38 - 137
n-Butylbenzene	50.0	50.5		ug/Kg		101	70 - 120
N-Propylbenzene	50.0	52.0		ug/Kg		104	70 - 130
o-Xylene	50.0	43.9		ug/Kg		88	70 - 130
sec-Butylbenzene	50.0	51.1		ug/Kg		102	74 - 120
Tetrachloroethene	50.0	43.8		ug/Kg		88	74 - 122
Toluene	50.0	45.8		ug/Kg		92	74 - 128
trans-1,2-Dichloroethene	50.0	44.1		ug/Kg		88	78 - 126
trans-1,3-Dichloropropene	50.0	45.8		ug/Kg		92	73 - 123
Trichloroethene	50.0	44.3		ug/Kg		89	77 - 129
Trichlorofluoromethane	50.0	45.3		ug/Kg		91	65 - 146
Vinyl chloride	50.0	46.8		ug/Kg		94	61 - 133
cis-1,3-Dichloropropene	50.0	44.7		ug/Kg		89	80 - 120
Styrene	50.0	43.6		ug/Kg		87	80 - 120
tert-Butylbenzene	50.0	50.1		ug/Kg		100	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*
4-Bromofluorobenzene (Surr)	*89*		*72 - 126*
Toluene-d8 (Surr)	*104*		*71 - 125*
Dibromofluoromethane (Surr)	*101*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-741378/1-A
Matrix: Solid
Analysis Batch: 741299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2-Chloronaphthalene	ND		170	28	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
1,4-Dioxane	ND		100	55	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2-Chlorophenol	ND		330	31	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2-Methylnaphthalene	ND		170	34	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2-Methylphenol	ND		170	20	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2-Nitroaniline	ND		330	25	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
2-Nitrophenol	ND		170	48	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
3-Nitroaniline	ND		330	47	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
4-Chloroaniline	ND		170	42	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
4-Methylphenol	ND		330	20	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
4-Nitroaniline	ND		330	89	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
4-Nitrophenol	ND		330	120	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Acenaphthene	ND		170	25	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Acenaphthylene	ND		170	22	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Acetophenone	ND		170	23	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Anthracene	ND		170	42	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Atrazine	ND		170	59	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Benzaldehyde	ND		170	140	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Benzo[a]anthracene	ND		170	17	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Benzo[a]pyrene	ND		170	25	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Caprolactam	ND		170	51	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Carbazole	ND		170	20	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Chrysene	ND		170	38	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Dibenzofuran	ND		170	20	ug/Kg		03/21/25 06:35	03/24/25 13:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-741378/1-A
Matrix: Solid
Analysis Batch: 741299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		170	22	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Dimethyl phthalate	ND		170	20	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Fluoranthene	ND		170	18	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Fluorene	ND		170	20	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Hexachlorobenzene	ND		170	23	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Hexachlorobutadiene	ND		170	25	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Hexachloroethane	ND		170	22	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Isophorone	ND		170	36	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Naphthalene	ND		170	22	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Nitrobenzene	ND		170	19	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Pentachlorophenol	ND		330	170	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Phenanthrene	ND		170	25	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Phenol	ND		170	26	ug/Kg		03/21/25 06:35	03/24/25 13:34	1
Pyrene	ND		170	20	ug/Kg		03/21/25 06:35	03/24/25 13:34	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2330*	*T J*	*ug/Kg*		*1.88*	*N/A*	*03/21/25 06:35*	*03/24/25 13:34*	*1*
Unknown	*2170*	*T J*	*ug/Kg*		*1.99*	*N/A*	*03/21/25 06:35*	*03/24/25 13:34*	*1*
Unknown	*1200*	*T J*	*ug/Kg*		*3.47*	*N/A*	*03/21/25 06:35*	*03/24/25 13:34*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*26 - 143*	*03/21/25 06:35*	*03/24/25 13:34*	*1*
2-Fluorobiphenyl	*89*		*50 - 121*	*03/21/25 06:35*	*03/24/25 13:34*	*1*
2-Fluorophenol	*80*		*36 - 120*	*03/21/25 06:35*	*03/24/25 13:34*	*1*
Nitrobenzene-d5	*84*		*40 - 121*	*03/21/25 06:35*	*03/24/25 13:34*	*1*
p-Terphenyl-d14	*99*		*46 - 143*	*03/21/25 06:35*	*03/24/25 13:34*	*1*
Phenol-d5	*88*		*41 - 120*	*03/21/25 06:35*	*03/24/25 13:34*	*1*

Lab Sample ID: LCS 480-741378/2-A
Matrix: Solid
Analysis Batch: 741299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	1330	1170		ug/Kg		88	59 - 120
bis (2-chloroisopropyl) ether	1330	1240		ug/Kg		93	44 - 120
2,4,5-Trichlorophenol	1330	1200		ug/Kg		90	59 - 126
2,4,6-Trichlorophenol	1330	1190		ug/Kg		90	59 - 123
2,4-Dichlorophenol	1330	1190		ug/Kg		89	61 - 120
2,4-Dimethylphenol	1330	1180		ug/Kg		88	59 - 120
2,4-Dinitrophenol	2670	2380		ug/Kg		89	41 - 146
2,4-Dinitrotoluene	1330	1180		ug/Kg		89	63 - 120
2,6-Dinitrotoluene	1330	1240		ug/Kg		93	66 - 120
2-Chloronaphthalene	1330	1150		ug/Kg		86	57 - 120
1,4-Dioxane	1330	655		ug/Kg		49	23 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-741378/2-A
Matrix: Solid
Analysis Batch: 741299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorophenol	1330	1110		ug/Kg		84	53 - 120
2-Methylnaphthalene	1330	1140		ug/Kg		86	59 - 120
2-Methylphenol	1330	1130		ug/Kg		84	54 - 120
2-Nitroaniline	1330	1230		ug/Kg		92	61 - 120
2-Nitrophenol	1330	1130		ug/Kg		85	56 - 120
3,3'-Dichlorobenzidine	1330	891		ug/Kg		67	54 - 120
3-Nitroaniline	1330	940		ug/Kg		71	48 - 120
4,6-Dinitro-2-methylphenol	2670	2340		ug/Kg		88	49 - 122
4-Bromophenyl phenyl ether	1330	1280		ug/Kg		96	58 - 120
4-Chloro-3-methylphenol	1330	1220		ug/Kg		91	61 - 120
4-Chloroaniline	1330	861		ug/Kg		65	38 - 120
4-Chlorophenyl phenyl ether	1330	1170		ug/Kg		88	63 - 124
4-Methylphenol	1330	1170		ug/Kg		88	55 - 120
4-Nitroaniline	1330	1080		ug/Kg		81	56 - 120
4-Nitrophenol	2670	2090		ug/Kg		78	43 - 147
Acenaphthene	1330	1170		ug/Kg		88	62 - 120
Acenaphthylene	1330	1180		ug/Kg		88	58 - 121
Acetophenone	1330	1110		ug/Kg		84	54 - 120
Anthracene	1330	1210		ug/Kg		91	62 - 120
Atrazine	1330	1230		ug/Kg		92	60 - 127
Benzaldehyde	1330	1250		ug/Kg		94	10 - 150
Benzo[a]anthracene	1330	1210		ug/Kg		91	65 - 120
Benzo[a]pyrene	1330	1230		ug/Kg		92	64 - 120
Benzo[b]fluoranthene	1330	1330		ug/Kg		100	64 - 120
Benzo[g,h,i]perylene	1330	1100		ug/Kg		83	45 - 145
Benzo[k]fluoranthene	1330	1250		ug/Kg		94	65 - 120
Bis(2-chloroethoxy)methane	1330	1170		ug/Kg		88	55 - 120
Bis(2-chloroethyl)ether	1330	1110		ug/Kg		83	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1290		ug/Kg		97	61 - 133
Butyl benzyl phthalate	1330	1290		ug/Kg		97	61 - 129
Caprolactam	1330	1160		ug/Kg		87	47 - 120
Carbazole	1330	1160		ug/Kg		87	65 - 120
Chrysene	1330	1170		ug/Kg		88	64 - 120
Di-n-butyl phthalate	1330	1220		ug/Kg		91	58 - 130
Di-n-octyl phthalate	1330	1240		ug/Kg		93	57 - 133
Dibenz(a,h)anthracene	1330	1140		ug/Kg		85	54 - 132
Dibenzofuran	1330	1170		ug/Kg		88	63 - 120
Diethyl phthalate	1330	1220		ug/Kg		91	66 - 120
Dimethyl phthalate	1330	1240		ug/Kg		93	65 - 124
Fluoranthene	1330	1180		ug/Kg		89	62 - 120
Fluorene	1330	1180		ug/Kg		89	63 - 120
Hexachlorobenzene	1330	1230		ug/Kg		92	60 - 120
Hexachlorobutadiene	1330	1080		ug/Kg		81	45 - 120
Hexachlorocyclopentadiene	1330	994		ug/Kg		75	47 - 120
Hexachloroethane	1330	996		ug/Kg		75	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1120		ug/Kg		84	56 - 134
Isophorone	1330	1210		ug/Kg		91	56 - 120
N-Nitrosodi-n-propylamine	1330	1170		ug/Kg		88	52 - 120
N-Nitrosodiphenylamine	1330	1250		ug/Kg		94	51 - 128

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-741378/2-A
Matrix: Solid
Analysis Batch: 741299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	1330	1090		ug/Kg		81	55 - 120
Nitrobenzene	1330	1100		ug/Kg		83	54 - 120
Pentachlorophenol	2670	2190		ug/Kg		82	10 - 120
Phenanthrene	1330	1200		ug/Kg		90	60 - 120
Phenol	1330	1140		ug/Kg		85	53 - 120
Pyrene	1330	1360		ug/Kg		102	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*97*		*26 - 143*
2-Fluorobiphenyl	*89*		*50 - 121*
2-Fluorophenol	*81*		*36 - 120*
Nitrobenzene-d5	*83*		*40 - 121*
p-Terphenyl-d14	*99*		*46 - 143*
Phenol-d5	*88*		*41 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-741325/1-A
Matrix: Solid
Analysis Batch: 741379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741325

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
4,4'-DDT	0.530	J	1.7	0.39	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Aldrin	ND		1.7	0.41	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
alpha-BHC	ND		1.7	0.30	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
cis-Chlordane	ND		1.7	0.83	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
beta-BHC	ND		1.7	0.30	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
delta-BHC	ND		1.7	0.31	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Dieldrin	ND		1.7	0.40	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Endosulfan I	ND		1.7	0.32	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Endosulfan II	ND		1.7	0.30	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Endrin	ND		1.7	0.33	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Endrin aldehyde	ND		1.7	0.43	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Endrin ketone	ND		1.7	0.41	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
gamma-BHC (Lindane)	ND		1.7	0.31	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
trans-Chlordane	ND		1.7	0.53	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Heptachlor	ND		1.7	0.36	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Methoxychlor	ND		1.7	0.34	ug/Kg		03/20/25 13:29	03/21/25 09:00	1
Toxaphene	ND		17	9.7	ug/Kg		03/20/25 13:29	03/21/25 09:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*45 - 120*	*03/20/25 13:29*	*03/21/25 09:00*	*1*
DCB Decachlorobiphenyl	*92*		*45 - 120*	*03/20/25 13:29*	*03/21/25 09:00*	*1*
Tetrachloro-m-xylene	*68*		*30 - 124*	*03/20/25 13:29*	*03/21/25 09:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-741325/1-A
Matrix: Solid
Analysis Batch: 741379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741325

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		30 - 124	03/20/25 13:29	03/21/25 09:00	1

Lab Sample ID: LCS 480-741325/2-A
Matrix: Solid
Analysis Batch: 741379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741325

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	11.3		ug/Kg		68	56 - 120
4,4'-DDE	16.7	7.96		ug/Kg		48	44 - 120
4,4'-DDT	16.7	9.69		ug/Kg		58	38 - 120
Aldrin	16.7	10.6		ug/Kg		64	38 - 120
alpha-BHC	16.7	8.85		ug/Kg		53	39 - 120
cis-Chlordane	16.7	9.49		ug/Kg		57	47 - 120
beta-BHC	16.7	10.0		ug/Kg		60	40 - 120
delta-BHC	16.7	10.2		ug/Kg		61	45 - 120
Dieldrin	16.7	12.1		ug/Kg		73	58 - 120
Endosulfan I	16.7	11.8		ug/Kg		71	49 - 120
Endosulfan II	16.7	12.2		ug/Kg		73	55 - 120
Endosulfan sulfate	16.7	11.9		ug/Kg		71	49 - 124
Endrin	16.7	12.4		ug/Kg		74	58 - 120
Endrin aldehyde	16.7	6.49		ug/Kg		39	37 - 121
Endrin ketone	16.7	12.5		ug/Kg		75	46 - 123
gamma-BHC (Lindane)	16.7	9.32		ug/Kg		56	50 - 120
trans-Chlordane	16.7	8.62		ug/Kg		52	48 - 120
Heptachlor	16.7	11.5		ug/Kg		69	50 - 120
Heptachlor epoxide	16.7	12.7		ug/Kg		76	50 - 120
Methoxychlor	16.7	12.5		ug/Kg		75	58 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	90		45 - 120
DCB Decachlorobiphenyl	89		45 - 120
Tetrachloro-m-xylene	60		30 - 124
Tetrachloro-m-xylene	67		30 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-741249/1-A
Matrix: Solid
Analysis Batch: 741257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg		03/20/25 06:50	03/20/25 11:49	1
PCB-1221	ND		0.25	0.049	mg/Kg		03/20/25 06:50	03/20/25 11:49	1
PCB-1232	ND		0.25	0.049	mg/Kg		03/20/25 06:50	03/20/25 11:49	1
PCB-1242	ND		0.25	0.049	mg/Kg		03/20/25 06:50	03/20/25 11:49	1
PCB-1248	ND		0.25	0.049	mg/Kg		03/20/25 06:50	03/20/25 11:49	1
PCB-1254	ND		0.25	0.12	mg/Kg		03/20/25 06:50	03/20/25 11:49	1
PCB-1260	ND		0.25	0.12	mg/Kg		03/20/25 06:50	03/20/25 11:49	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-741249/1-A
Matrix: Solid
Analysis Batch: 741257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741249

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	151		60 - 154	03/20/25 06:50	03/20/25 11:49	1
Tetrachloro-m-xylene	150		60 - 154	03/20/25 06:50	03/20/25 11:49	1
DCB Decachlorobiphenyl	148		65 - 174	03/20/25 06:50	03/20/25 11:49	1
DCB Decachlorobiphenyl	149		65 - 174	03/20/25 06:50	03/20/25 11:49	1

Lab Sample ID: LCS 480-741249/2-A
Matrix: Solid
Analysis Batch: 741257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741249

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.50	4.07		mg/Kg		163	51 - 185
PCB-1260	2.50	4.09		mg/Kg		163	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	152		60 - 154
Tetrachloro-m-xylene	154		60 - 154
DCB Decachlorobiphenyl	156		65 - 174
DCB Decachlorobiphenyl	160		65 - 174

Lab Sample ID: 480-227982-1 MS
Matrix: Solid
Analysis Batch: 741381

Client Sample ID: RISB-1 0.5-2.5FT
Prep Type: Total/NA
Prep Batch: 741249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		2.39	2.82		mg/Kg	☼	118	50 - 177
PCB-1260	ND		2.39	2.86		mg/Kg	☼	120	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	114		60 - 154
Tetrachloro-m-xylene	120		60 - 154
DCB Decachlorobiphenyl	88		65 - 174
DCB Decachlorobiphenyl	117		65 - 174

Lab Sample ID: 480-227982-1 MSD
Matrix: Solid
Analysis Batch: 741381

Client Sample ID: RISB-1 0.5-2.5FT
Prep Type: Total/NA
Prep Batch: 741249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		2.48	2.26		mg/Kg	☼	91	50 - 177	22	50
PCB-1260	ND		2.48	2.19		mg/Kg	☼	88	33 - 200	26	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	94		60 - 154
Tetrachloro-m-xylene	90		60 - 154
DCB Decachlorobiphenyl	88		65 - 174
DCB Decachlorobiphenyl	93		65 - 174

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-741248/1-A
Matrix: Solid
Analysis Batch: 741578

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.3	ug/Kg		03/20/25 06:47	03/24/25 12:45	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg		03/20/25 06:47	03/24/25 12:45	1
2,4-D	ND		17	11	ug/Kg		03/20/25 06:47	03/24/25 12:45	1
Dichlorprop	ND		17	8.3	ug/Kg		03/20/25 06:47	03/24/25 12:45	1
Pentachlorophenol	ND		17	5.4	ug/Kg		03/20/25 06:47	03/24/25 12:45	1
Picloram	ND		17	7.2	ug/Kg		03/20/25 06:47	03/24/25 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*03/20/25 06:47*	*03/24/25 12:45*	*1*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*	*03/20/25 06:47*	*03/24/25 12:45*	*1*

Lab Sample ID: LCS 480-741248/2-A
Matrix: Solid
Analysis Batch: 741578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	66.7	50.0		ug/Kg		75	41 - 120
Silvex (2,4,5-TP)	66.7	50.8		ug/Kg		76	39 - 125
2,4-D	66.7	49.4		ug/Kg		74	40 - 120
Dichlorprop	66.7	53.0		ug/Kg		79	34 - 121
Pentachlorophenol	66.7	12.2	J	ug/Kg		18	10 - 120
Picloram	66.7	46.5		ug/Kg		70	22 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*

Lab Sample ID: 480-227982-1 MS
Matrix: Solid
Analysis Batch: 741578

Client Sample ID: RISB-1 0.5-2.5FT
Prep Type: Total/NA
Prep Batch: 741248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	ND		68.5	47.0		ug/Kg	☼	69	29 - 123
Silvex (2,4,5-TP)	ND		68.5	48.2		ug/Kg	☼	70	22 - 140
2,4-D	ND		68.5	47.9		ug/Kg	☼	70	32 - 115
Dichlorprop	ND		68.5	50.3		ug/Kg	☼	73	28 - 125
Pentachlorophenol	ND		68.5	39.9		ug/Kg	☼	58	10 - 130
Picloram	ND		68.5	35.7		ug/Kg	☼	52	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 480-227982-1 MSD
Matrix: Solid
Analysis Batch: 741578

Client Sample ID: RISB-1 0.5-2.5FT
Prep Type: Total/NA
Prep Batch: 741248

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	ND		69.2	48.7		ug/Kg	☼	70	29 - 123	3	50
Silvex (2,4,5-TP)	ND		69.2	49.1		ug/Kg	☼	71	22 - 140	2	50
2,4-D	ND		69.2	51.2		ug/Kg	☼	74	32 - 115	7	50
Dichlorprop	ND		69.2	53.7		ug/Kg	☼	78	28 - 125	6	50
Pentachlorophenol	ND		69.2	39.9		ug/Kg	☼	58	10 - 130	0	50
Picloram	ND		69.2	42.1		ug/Kg	☼	61	10 - 150	16	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*80*		*28 - 129*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-649443/1-A
Matrix: Solid
Analysis Batch: 649539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.13	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluoropentanoic acid (PFPeA)	ND		0.25	0.063	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorohexanoic acid (PFHxA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluoroheptanoic acid (PFHpA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorooctanoic acid (PFOA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorononanoic acid (PFNA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorodecanoic acid (PFDA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluoroundecanoic acid (PFUnA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorododecanoic acid (PFDoA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorononanesulfonic acid (PFNS)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.50	0.13	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.50	0.13	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.50	0.13	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-649443/1-A
Matrix: Solid
Analysis Batch: 649539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.3	0.31	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.3	0.31	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.50	0.13	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.50	0.13	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.25	0.063	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.25	0.063	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.50	0.13	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.50	0.13	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.25	0.063	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.63	0.16	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		3.1	0.78	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		3.1	0.78	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.13	0.031	ug/Kg		03/25/25 07:49	03/25/25 14:06	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.25	0.063	ug/Kg		03/25/25 07:49	03/25/25 14:06	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99.8*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C5 PFPeA	*98.7*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C5 PFHxA	*98.3*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C4 PFHpA	*103*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C8 PFOA	*98.0*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C9 PFNA	*93.5*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C6 PFDA	*107*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C7 PFUnA	*103*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C2 PFTeDA	*94.6*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C3 PFBS	*102*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C3 PFHxS	*97.7*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C8 PFOS	*99.5*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C8 PFOSA	*93.3*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
d3-NMeFOSAA	*101*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
d5-NEtFOSAA	*97.6*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
M2-4:2 FTS	*106*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
M2-6:2 FTS	*122*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
M2-8:2 FTS	*109*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*
13C3 HFPO-DA	*99.9*		*20 - 150*	*03/25/25 07:49*	*03/25/25 14:06*	*1*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-649443/1-A
Matrix: Solid
Analysis Batch: 649539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649443

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	73.4		20 - 150	03/25/25 07:49	03/25/25 14:06	1
d9-N-EtFOSE-M	65.9		20 - 150	03/25/25 07:49	03/25/25 14:06	1
d5-NEtPFOSA	68.5		20 - 150	03/25/25 07:49	03/25/25 14:06	1
D3-NMeFOSA	80.9		20 - 150	03/25/25 07:49	03/25/25 14:06	1
13C2-PFDoDA	94.6		20 - 150	03/25/25 07:49	03/25/25 14:06	1

Lab Sample ID: LCS 240-649443/3-A
Matrix: Solid
Analysis Batch: 649539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	6.25	6.61		ug/Kg		106	40 - 150
Perfluoropentanoic acid (PFPeA)	3.13	3.11		ug/Kg		100	40 - 150
Perfluorohexanoic acid (PFHxA)	1.56	1.54		ug/Kg		98	40 - 150
Perfluoroheptanoic acid (PFHpA)	1.56	1.56		ug/Kg		100	40 - 150
Perfluorooctanoic acid (PFOA)	1.56	1.72		ug/Kg		110	40 - 150
Perfluorononanoic acid (PFNA)	1.56	1.85		ug/Kg		118	40 - 150
Perfluorodecanoic acid (PFDA)	1.56	1.71		ug/Kg		109	40 - 150
Perfluoroundecanoic acid (PFUnA)	1.56	1.71		ug/Kg		110	40 - 150
Perfluorododecanoic acid (PFDoA)	1.56	1.79		ug/Kg		115	40 - 150
Perfluorotridecanoic acid (PFTrDA)	1.56	1.80		ug/Kg		116	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	1.56	1.55		ug/Kg		99	40 - 150
Perfluorobutanesulfonic acid (PFBS)	1.39	1.34		ug/Kg		97	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.47	1.60		ug/Kg		109	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.52		ug/Kg		107	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.49	1.51		ug/Kg		101	40 - 150
Perfluorooctanesulfonic acid (PFOS)	1.45	1.50		ug/Kg		103	40 - 150
Perfluorononanesulfonic acid (PFNS)	1.50	1.52		ug/Kg		101	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	1.52	1.32		ug/Kg		87	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	5.86	6.16		ug/Kg		105	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.95	6.02		ug/Kg		101	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.00	6.34		ug/Kg		106	40 - 150
Perfluorooctanesulfonamide (PFOSA)	1.56	1.69		ug/Kg		108	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.56	1.73		ug/Kg		111	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.56	1.85		ug/Kg		118	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-649443/3-A
Matrix: Solid
Analysis Batch: 649539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.56	1.58		ug/Kg		101	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.56	1.56		ug/Kg		100	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	15.6	16.4		ug/Kg		105	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	15.6	17.1		ug/Kg		110	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.25	6.33		ug/Kg		101	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.91	6.48		ug/Kg		110	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.13	3.34		ug/Kg		107	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.13	3.32		ug/Kg		106	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.84	6.26		ug/Kg		107	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	5.90	5.60		ug/Kg		95	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.79	3.02		ug/Kg		108	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.81	7.78		ug/Kg		100	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	39.1	39.5		ug/Kg		101	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	39.1	36.5		ug/Kg		93	40 - 150
Perfluorodecanesulfonic acid (PFDS)	1.51	1.41		ug/Kg		94	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.13	3.29		ug/Kg		105	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*99.1*		*20 - 150*
13C5 PFPeA	*94.9*		*20 - 150*
13C5 PFHxA	*95.4*		*20 - 150*
13C4 PFHpA	*106*		*20 - 150*
13C8 PFOA	*90.3*		*20 - 150*
13C9 PFNA	*91.5*		*20 - 150*
13C6 PFDA	*105*		*20 - 150*
13C7 PFUnA	*101*		*20 - 150*
13C2 PFTeDA	*87.9*		*20 - 150*
13C3 PFBS	*99.1*		*20 - 150*
13C3 PFHxS	*91.3*		*20 - 150*
13C8 PFOS	*96.5*		*20 - 150*
13C8 PFOSA	*89.0*		*20 - 150*
d3-NMeFOSAA	*99.5*		*20 - 150*
d5-NEtFOSAA	*91.4*		*20 - 150*
M2-4:2 FTS	*102*		*20 - 150*
M2-6:2 FTS	*115*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-649443/3-A
Matrix: Solid
Analysis Batch: 649539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649443

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-8:2 FTS	*106*		*20 - 150*
13C3 HFPO-DA	*95.1*		*20 - 150*
d7-N-MeFOSE-M	*57.2*		*20 - 150*
d9-N-EtFOSE-M	*50.7*		*20 - 150*
d5-NEtPFOSA	*69.2*		*20 - 150*
D3-NMeFOSA	*79.3*		*20 - 150*
13C2-PFDoDA	*93.4*		*20 - 150*

Lab Sample ID: LLCS 240-649443/2-A
Matrix: Solid
Analysis Batch: 649539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649443

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.543		ug/Kg		109	40 - 150
Perfluoropentanoic acid (PFPeA)	0.250	0.267		ug/Kg		107	40 - 150
Perfluorohexanoic acid (PFHxA)	0.125	0.140		ug/Kg		112	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.125	0.139		ug/Kg		111	40 - 150
Perfluorooctanoic acid (PFOA)	0.125	0.143		ug/Kg		114	40 - 150
Perfluorononanoic acid (PFNA)	0.125	0.151		ug/Kg		121	40 - 150
Perfluorodecanoic acid (PFDA)	0.125	0.139		ug/Kg		111	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.125	0.143		ug/Kg		114	40 - 150
Perfluorododecanoic acid (PFDoA)	0.125	0.147		ug/Kg		118	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.125	0.147		ug/Kg		118	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.125	0.136		ug/Kg		109	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.111	0.104	J	ug/Kg		94	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.118	0.131		ug/Kg		111	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.114	0.126	J	ug/Kg		110	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.119	0.130		ug/Kg		109	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.116	0.129	J	ug/Kg		111	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.120	0.125	J	ug/Kg		104	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.121	0.126	J	ug/Kg		104	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.486	J	ug/Kg		104	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.513		ug/Kg		108	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.503		ug/Kg		105	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.125	0.144		ug/Kg		115	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.125	0.144		ug/Kg		115	40 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-649443/2-A
Matrix: Solid
Analysis Batch: 649539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649443

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.125	0.156		ug/Kg		125	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.125	0.135		ug/Kg		108	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.125	0.131		ug/Kg		105	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.44		ug/Kg		115	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.40		ug/Kg		112	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.500	0.551		ug/Kg		110	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.473	0.514		ug/Kg		109	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.268		ug/Kg		107	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.281		ug/Kg		112	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.467	0.417	J	ug/Kg		89	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.472	0.394	J	ug/Kg		84	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.223	0.240	J	ug/Kg		108	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.625	0.663		ug/Kg		106	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	3.13	3.21		ug/Kg		103	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	3.13	2.77	J	ug/Kg		89	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.121	0.122	J	ug/Kg		102	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.276		ug/Kg		111	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*83.4*		*20 - 150*
13C5 PFPeA	*76.9*		*20 - 150*
13C5 PFHxA	*75.1*		*20 - 150*
13C4 PFHpA	*79.0*		*20 - 150*
13C8 PFOA	*72.0*		*20 - 150*
13C9 PFNA	*68.6*		*20 - 150*
13C6 PFDA	*77.3*		*20 - 150*
13C7 PFUnA	*76.3*		*20 - 150*
13C2 PFTeDA	*73.3*		*20 - 150*
13C3 PFBS	*73.6*		*20 - 150*
13C3 PFHxS	*67.3*		*20 - 150*
13C8 PFOS	*70.4*		*20 - 150*
13C8 PFOSA	*67.8*		*20 - 150*
d3-NMeFOSAA	*72.5*		*20 - 150*
d5-NEtFOSAA	*68.4*		*20 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-649443/2-A
Matrix: Solid
Analysis Batch: 649539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649443

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
M2-4:2 FTS	*83.7*		*20 - 150*
M2-6:2 FTS	*86.2*		*20 - 150*
M2-8:2 FTS	*77.1*		*20 - 150*
13C3 HFPO-DA	*80.0*		*20 - 150*
d7-N-MeFOSE-M	*45.1*		*20 - 150*
d9-N-EtFOSE-M	*44.1*		*20 - 150*
d5-NEtPFOSA	*50.2*		*20 - 150*
D3-NMeFOSA	*58.8*		*20 - 150*
13C2-PFDoDA	*72.2*		*20 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-741283/1-A
Matrix: Solid
Analysis Batch: 741457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741283

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.4	9.0	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Antimony	ND		15.6	0.55	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Arsenic	ND		2.1	0.92	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Barium	ND		0.52	0.15	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Beryllium	ND		0.21	0.042	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Cadmium	0.0834	J	0.21	0.073	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Calcium	ND		52.1	28.1	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Chromium	ND		0.52	0.38	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Cobalt	ND		0.52	0.10	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Copper	ND		1.0	0.59	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Iron	ND		10.4	8.8	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Lead	ND		1.0	0.48	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Magnesium	ND		20.8	8.8	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Manganese	ND		1.0	0.29	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Nickel	ND		5.2	0.26	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Potassium	ND		31.3	25.3	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Selenium	ND		4.2	0.83	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Silver	ND		0.63	0.21	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Sodium	ND		146	63.9	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Thallium	ND		6.3	0.79	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Vanadium	ND		0.52	0.14	mg/Kg		03/20/25 14:00	03/21/25 12:19	1
Zinc	ND		2.1	1.1	mg/Kg		03/20/25 14:00	03/21/25 12:19	1

Lab Sample ID: LCSSRM 480-741283/2-A
Matrix: Solid
Analysis Batch: 741457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741283

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	8638		mg/Kg		112.5	47.4 - 130.2
Antimony	201	99.30		mg/Kg		49.4	0.06 - 100.0
Arsenic	181	148.0		mg/Kg		81.8	66.3 - 97.8

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-741283/2-A
Matrix: Solid
Analysis Batch: 741457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741283

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	221	211.9		mg/Kg		95.9	70.6 - 101.8
Copper	264	273.6		mg/Kg		103.6	73.5 - 104.2
Iron	7360	6667		mg/Kg		90.6	55.4 - 130.3
Lead	106	106.7		mg/Kg		100.7	76.1 - 109.4
Magnesium	2170	2129		mg/Kg		98.1	68.7 - 112.0
Manganese	270	261.3		mg/Kg		96.8	73.0 - 107.8
Potassium	2340	2446		mg/Kg		104.5	62.8 - 113.7
Selenium	139	119.8		mg/Kg		86.2	70.0 - 107.9
Silver	59.9	55.74		mg/Kg		93.1	72.8 - 110.7
Sodium	306	326.8		mg/Kg		106.8	66.0 - 113.4
Thallium	205	212.3		mg/Kg		103.6	71.7 - 106.8
Vanadium	155	156.6		mg/Kg		101.0	69.0 - 107.7
Zinc	398	393.7		mg/Kg		98.9	68.8 - 104.5

Lab Sample ID: 480-227982-1 MS
Matrix: Solid
Analysis Batch: 741457

Client Sample ID: RISB-1 0.5-2.5FT
Prep Type: Total/NA
Prep Batch: 741283

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	9280		1090	15010	4	mg/Kg	☼	526	75 - 125
Antimony	ND	F1	106	67.89	F1	mg/Kg	☼	64	75 - 125
Arsenic	4.9		213	176.8		mg/Kg	☼	81	75 - 125
Cadmium	0.39	B	106	87.97		mg/Kg	☼	82	75 - 125
Copper	38.2		106	133.3		mg/Kg	☼	89	75 - 125
Iron	15000		1090	15540	4	mg/Kg	☼	49	75 - 125
Lead	168		106	264.8		mg/Kg	☼	91	75 - 125
Magnesium	14000	F1 F2	5330	16840	F1	mg/Kg	☼	54	75 - 125
Manganese	349	F1	106	456.9		mg/Kg	☼	102	75 - 125
Potassium	2270		5320	8705		mg/Kg	☼	121	75 - 125
Selenium	ND		213	163.4		mg/Kg	☼	77	75 - 125
Silver	ND		10.6	8.75		mg/Kg	☼	82	75 - 125
Sodium	173		5320	4734		mg/Kg	☼	86	75 - 125
Thallium	ND		213	196.2		mg/Kg	☼	92	75 - 125
Vanadium	18.8		106	114.4		mg/Kg	☼	90	75 - 125
Zinc	125		106	210.3		mg/Kg	☼	80	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-227982-1 MSD
Client Sample ID: RISB-1 0.5-2.5FT
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 741457
Prep Batch: 741283

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	9280		1090	14070	4	mg/Kg	☼	437	75 - 125	6	20
Antimony	ND	F1	107	72.98	F1	mg/Kg	☼	68	75 - 125	7	20
Arsenic	4.9		214	179.4		mg/Kg	☼	82	75 - 125	1	20
Cadmium	0.39	B	107	90.33		mg/Kg	☼	84	75 - 125	3	20
Copper	38.2		107	135.4		mg/Kg	☼	91	75 - 125	2	20
Iron	15000		1100	16400	4	mg/Kg	☼	127	75 - 125	5	20
Lead	168		107	288.6		mg/Kg	☼	113	75 - 125	9	20
Magnesium	14000	F1 F2	5350	13410	F1 F2	mg/Kg	☼	-11	75 - 125	23	20
Manganese	349	F1	107	403.7	F1	mg/Kg	☼	51	75 - 125	12	20
Nickel	16.2	*+	107	116.8		mg/Kg	☼	94	75 - 125	3	20
Potassium	2270		5350	8218		mg/Kg	☼	111	75 - 125	6	20
Selenium	ND		214	162.4		mg/Kg	☼	76	75 - 125	1	20
Silver	ND		10.7	9.51		mg/Kg	☼	89	75 - 125	8	20
Sodium	173		5350	4735		mg/Kg	☼	85	75 - 125	0	20
Thallium	ND		214	207.7		mg/Kg	☼	97	75 - 125	6	20
Vanadium	18.8		107	114.9		mg/Kg	☼	90	75 - 125	0	20
Zinc	125		107	207.2		mg/Kg	☼	77	75 - 125	1	20

Lab Sample ID: MB 480-741568/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 741727
Prep Batch: 741568

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.48	0.13	mg/Kg		03/24/25 15:46	03/25/25 13:44	1
Beryllium	ND		0.19	0.038	mg/Kg		03/24/25 15:46	03/25/25 13:44	1
Calcium	ND		47.6	25.7	mg/Kg		03/24/25 15:46	03/25/25 13:44	1
Chromium	ND		0.48	0.34	mg/Kg		03/24/25 15:46	03/25/25 13:44	1
Cobalt	ND		0.48	0.095	mg/Kg		03/24/25 15:46	03/25/25 13:44	1
Nickel	ND		4.8	0.24	mg/Kg		03/24/25 15:46	03/25/25 13:44	1

Lab Sample ID: LCSSRM 480-741568/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 741727
Prep Batch: 741568

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Barium	211	193.9		mg/Kg		91.9	73.9 - 107.1
Beryllium	270	248.5		mg/Kg		92.0	73.0 - 104.4
Calcium	4280	4178		mg/Kg		97.6	77.3 - 111.0
Chromium	149	134.8		mg/Kg		90.5	71.8 - 105.4

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-741568/2-A
Matrix: Solid
Analysis Batch: 741812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741568

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	142	147.5		mg/Kg		103.9	73.2 - 104.2
Nickel	177	182.1		mg/Kg		102.9	71.8 - 103.4

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-741274/1-A
Matrix: Solid
Analysis Batch: 741303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021	0.0048	mg/Kg		03/20/25 09:38	03/20/25 11:01	1

Lab Sample ID: LCSSRM 480-741274/2-A ^10
Matrix: Solid
Analysis Batch: 741303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741274

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	17.49		mg/Kg		72.9	55.8 - 109.6

Lab Sample ID: 480-227982-1 MS
Matrix: Solid
Analysis Batch: 741303

Client Sample ID: RISB-1 0.5-2.5FT
Prep Type: Total/NA
Prep Batch: 741274

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.45		0.358	0.865		mg/Kg	☼	117	80 - 120

Lab Sample ID: 480-227982-1 MSD
Matrix: Solid
Analysis Batch: 741303

Client Sample ID: RISB-1 0.5-2.5FT
Prep Type: Total/NA
Prep Batch: 741274

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.45		0.364	0.808		mg/Kg	☼	99	80 - 120	7	20

GC/MS VOA

Prep Batch: 741200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	5035A_L	
MB 480-741200/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-741200/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 741229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	8260C	741200
MB 480-741200/3-A	Method Blank	Total/NA	Solid	8260C	741200
LCS 480-741200/1-A	Lab Control Sample	Total/NA	Solid	8260C	741200

GC/MS Semi VOA

Analysis Batch: 741299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	8270D	741378
MB 480-741378/1-A	Method Blank	Total/NA	Solid	8270D	741378
LCS 480-741378/2-A	Lab Control Sample	Total/NA	Solid	8270D	741378

Prep Batch: 741378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	3550C	
MB 480-741378/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-741378/2-A	Lab Control Sample	Total/NA	Solid	3550C	

GC Semi VOA

Prep Batch: 741248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	8151A	
MB 480-741248/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-741248/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-227982-1 MS	RISB-1 0.5-2.5FT	Total/NA	Solid	8151A	
480-227982-1 MSD	RISB-1 0.5-2.5FT	Total/NA	Solid	8151A	

Prep Batch: 741249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	3550C	
MB 480-741249/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-741249/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-227982-1 MS	RISB-1 0.5-2.5FT	Total/NA	Solid	3550C	
480-227982-1 MSD	RISB-1 0.5-2.5FT	Total/NA	Solid	3550C	

Analysis Batch: 741257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-741249/1-A	Method Blank	Total/NA	Solid	8082A	741249
LCS 480-741249/2-A	Lab Control Sample	Total/NA	Solid	8082A	741249

Prep Batch: 741325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	3550C	
MB 480-741325/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-741325/2-A	Lab Control Sample	Total/NA	Solid	3550C	

GC Semi VOA

Analysis Batch: 741379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	8081B	741325
MB 480-741325/1-A	Method Blank	Total/NA	Solid	8081B	741325
LCS 480-741325/2-A	Lab Control Sample	Total/NA	Solid	8081B	741325

Analysis Batch: 741381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	8082A	741249
480-227982-1 MS	RISB-1 0.5-2.5FT	Total/NA	Solid	8082A	741249
480-227982-1 MSD	RISB-1 0.5-2.5FT	Total/NA	Solid	8082A	741249

Analysis Batch: 741578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	8151A	741248
MB 480-741248/1-A	Method Blank	Total/NA	Solid	8151A	741248
LCS 480-741248/2-A	Lab Control Sample	Total/NA	Solid	8151A	741248
480-227982-1 MS	RISB-1 0.5-2.5FT	Total/NA	Solid	8151A	741248
480-227982-1 MSD	RISB-1 0.5-2.5FT	Total/NA	Solid	8151A	741248

LCMS

Prep Batch: 649443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	1633 Shake	
MB 240-649443/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-649443/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-649443/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 649539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	1633	649443
MB 240-649443/1-A	Method Blank	Total/NA	Solid	1633	649443
LCS 240-649443/3-A	Lab Control Sample	Total/NA	Solid	1633	649443
LLCS 240-649443/2-A	Lab Control Sample	Total/NA	Solid	1633	649443

Metals

Prep Batch: 741274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	7471B	
MB 480-741274/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-741274/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-227982-1 MS	RISB-1 0.5-2.5FT	Total/NA	Solid	7471B	
480-227982-1 MSD	RISB-1 0.5-2.5FT	Total/NA	Solid	7471B	

Prep Batch: 741283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	3050B	
MB 480-741283/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-741283/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-227982-1 MS	RISB-1 0.5-2.5FT	Total/NA	Solid	3050B	
480-227982-1 MSD	RISB-1 0.5-2.5FT	Total/NA	Solid	3050B	

Metals

Analysis Batch: 741303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	7471B	741274
MB 480-741274/1-A	Method Blank	Total/NA	Solid	7471B	741274
LCSSRM 480-741274/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	741274
480-227982-1 MS	RISB-1 0.5-2.5FT	Total/NA	Solid	7471B	741274
480-227982-1 MSD	RISB-1 0.5-2.5FT	Total/NA	Solid	7471B	741274

Analysis Batch: 741457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	6010C	741283
MB 480-741283/1-A	Method Blank	Total/NA	Solid	6010C	741283
LCSSRM 480-741283/2-A	Lab Control Sample	Total/NA	Solid	6010C	741283
480-227982-1 MS	RISB-1 0.5-2.5FT	Total/NA	Solid	6010C	741283
480-227982-1 MSD	RISB-1 0.5-2.5FT	Total/NA	Solid	6010C	741283

Prep Batch: 741568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	3050B	
MB 480-741568/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-741568/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 741727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	6010C	741568
MB 480-741568/1-A	Method Blank	Total/NA	Solid	6010C	741568
LCSSRM 480-741568/2-A	Lab Control Sample	Total/NA	Solid	6010C	741568

Analysis Batch: 741812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 480-741568/2-A	Lab Control Sample	Total/NA	Solid	6010C	741568

General Chemistry

Analysis Batch: 741340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227982-1	RISB-1 0.5-2.5FT	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227982-1
Project/Site: North Aud Block

Client Sample ID: RISB-1 0.5-2.5FT
Lab Sample ID: 480-227982-1
Date Collected: 03/18/25 11:00
Matrix: Solid
Date Received: 03/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	741340	JMM	EET BUF	03/20/25 14:52

Client Sample ID: RISB-1 0.5-2.5FT
Lab Sample ID: 480-227982-1
Date Collected: 03/18/25 11:00
Matrix: Solid
Date Received: 03/19/25 09:00
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			741200	ERS	EET BUF	03/19/25 13:55
Total/NA	Analysis	8260C		1	741229	LCH	EET BUF	03/19/25 21:40
Total/NA	Prep	3550C			741378	SMP	EET BUF	03/21/25 06:35
Total/NA	Analysis	8270D		5	741299	JMM	EET BUF	03/24/25 15:46
Total/NA	Prep	3550C			741325	LSC	EET BUF	03/20/25 13:29
Total/NA	Analysis	8081B		10	741379	MAN	EET BUF	03/21/25 10:38
Total/NA	Prep	3550C			741249	SMP	EET BUF	03/20/25 06:50
Total/NA	Analysis	8082A		1	741381	H9RU	EET BUF	03/21/25 13:21
Total/NA	Prep	8151A			741248	SMP	EET BUF	03/20/25 06:47
Total/NA	Analysis	8151A		1	741578	MAN	EET BUF	03/24/25 13:59
Total/NA	Prep	1633 Shake			649443	KML	EET CLE	03/25/25 07:49
Total/NA	Analysis	1633		1	649539	LD	EET CLE	03/25/25 14:56
Total/NA	Prep	3050B			741283	EMO	EET BUF	03/20/25 14:00
Total/NA	Analysis	6010C		1	741457	MP	EET BUF	03/21/25 12:23
Total/NA	Prep	3050B			741568	EMO	EET BUF	03/24/25 15:46
Total/NA	Analysis	6010C		1	741727	BMB	EET BUF	03/25/25 14:51
Total/NA	Prep	7471B			741274	ESB	EET BUF	03/20/25 09:38
Total/NA	Analysis	7471B		1	741303	ESB	EET BUF	03/20/25 11:04

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227982-1
Project/Site: North Aud Block

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8151A	8151A	Solid	Picloram
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	03-31-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Method Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227982-1
Project/Site: North Aud Block

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
8151A	Herbicides (GC)	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227982-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227982-1	RISB-1 0.5-2.5FT	Solid	03/18/25 11:00	03/19/25 09:00

Address: _____

Chain of Custody Record

599369 eurofins | Environment Testing TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Brian Mayback	Site Contact: Nick Scalzi	Date: 3/18/25	COC No:
Company Name: Rolf	Tel/Email: BMayback@Rolf.com	Lab Contact: Brian Fisher	Carrier:	_____ of _____ COCs
Address: 2558 Hamburg Turnpike	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716-713-3937	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: North Ave site	☐ 1 week			Job / SDG No.:
Site:	☐ 2 days			
P O # 4375.0002B000	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TCL TCP-SI Vocs + TICs	TCL SVOC's + TICs	TAL Metals	PCB's	Herbicides	Pesticides	PFAS	Sample Specific Notes:
RISB-1 0.5-2.5 Ft	3/18/25	1100	G	Soil				X	X	X	X	X	X	X	EPA VOCs

480-227982 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Cat B, NYS Dec Part 375 2.4 2.7 1,2,4 TMB, Isopropylbenzene, n-Propylbenzene, sec-Butylbenzene, 1,3,5-TMB, p-Isopropyltoluene, n-Butylbenzene, 1,2,4,5-TetraMB, Naphthalene, 1,2,3-TCB

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Rolf	Date/Time: 3/18/25 12:23	Received by:	Company: EET	Date/Time: 3/18/25 17:45
Relinquished by:	Company: EET	Date/Time: 3/19/25 18:10	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 3/19/25 900

Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer, Brian J	Carrier Tracking No(s): N/A	COC No: 480-91764.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - New York		Job #: 480-227982-1
Address: 180 S. Van Buren Avenue, ,	Due Date Requested: 4/8/2025			
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RISB-1 0.5-2.5FT (480-227982-1)	3/18/25	11:00 Eastern	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

11.4|11.4

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fischer Brian J	Carrier Tracking No(s): N/A	COC No: 480-91764.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-227982-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 4/8/2025			
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: North Aud Block	Project #: 48028442			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

P43

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RISB-1 0.5-2.5FT (480-227982-1)	3/18/25	11 00 Eastern	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/20/25 1600	TA	JESSE MOROSKO	3/24/25 0945	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins Buffalo Site Name

Cooler Received on 3/24/25 Opened on 3/24/25

Cooler unpacked by: JESSE MOROSKO

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice (Water) None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13 (CF +0.0 °C) Observed Cooler Temp 11.4 °C Corrected Cooler Temp. 11.4 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC448976
14 Were VOAs on the COC?	Yes	(No)
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	(No) NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	(No)
17 Was a LL Hg or Me Hg trip blank present?	Yes	(No)

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen.

3/28/2025

ORIGIN ID:DKKA 716 601 2800
SAMPLE CONTROL
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE

BUFFALO, NY 142282223
UNITED STATES US

SHIP DATE: 20MAR25
ACTWGT 15.93 LB
CAD: 0259273/CAFE3855
DIMS: 15x12x11 IN

BILL SENDER

Part # 159469-494 MTW EXP 07/25
589C3/5027/FE2D

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF. BARBERTON

FedEx Express

J243024070401uv

TRK# 0201 7463 0662 9253

FRI - 21 MAR 10:30A
PRIORITY OVERNIGHT

XP CAKA

44203
OH-US CLE

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-227982-1

Login Number: 227982
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ROUX
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

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JOB DESCRIPTION

North Aud Block

JOB NUMBER

480-228459-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

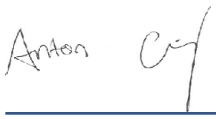
Eurofins Buffalo

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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4/21/2025 4:28:46 PM

Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 9
QC Sample Results 25
QC Association Summary 41
Lab Chronicle 42
Certification Summary 43
Method Summary 44
Sample Summary 45
Chain of Custody 46
Receipt Checklists 48
Clean Canister Certification 49
    Pre-Ship Certification 49
    Clean Canister Data 50
Air Canister Dilution 58

Definitions/Glossary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-228459-1 Eurofins Buffalo

Job Narrative
480-228459-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/5/2025 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions
During the canister pressure check performed upon receipt, it was observed that the following samples were received at an elevated residual vacuum level: SV-1 (480-228459-1) and SV-2 (480-228459-2). The associated flow controller was evaluated upon receipt and was found to be outside the acceptable flow range as compared to the original set flow rate.

Clean nitrogen will be added to the cans to bring the pressures into range. Additional sample volume will be used so the sample RLs will not increase.

Air - GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Client Sample ID: SV-1
Lab Sample ID: 480-228459-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.2	J	2.5	1.1	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	1.3	J	1.8	1.3	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.68	ug/m3	1		TO-15	Total/NA
n-Butane	7.1		1.2	0.74	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.43	ug/m3	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.49	J	1.5	0.44	ug/m3	1		TO-15	Total/NA
Acetone	11	J	12	4.5	ug/m3	1		TO-15	Total/NA
n-Hexane	8.5		1.8	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	0.86	J	1.5	0.41	ug/m3	1		TO-15	Total/NA
Chloroform	0.61	J	0.98	0.29	ug/m3	1		TO-15	Total/NA
Cyclohexane	2.4		0.69	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41		0.22	0.15	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	13		0.93	0.33	ug/m3	1		TO-15	Total/NA
Benzene	0.48	J	0.64	0.16	ug/m3	1		TO-15	Total/NA
n-Heptane	1.5		0.82	0.35	ug/m3	1		TO-15	Total/NA
Toluene	0.43	J	0.75	0.20	ug/m3	1		TO-15	Total/NA
m,p-Xylene	0.34	J	2.2	0.061	ug/m3	1		TO-15	Total/NA
Styrene	0.38	J	0.85	0.24	ug/m3	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.44	J	0.50	0.22	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	0.36	J	0.50	0.36	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.62		0.50	0.33	ppb v/v	1		TO-15	Total/NA
n-Butane	3.0		0.50	0.31	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.077	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.064	J	0.20	0.057	ppb v/v	1		TO-15	Total/NA
Acetone	4.5	J	5.0	1.9	ppb v/v	1		TO-15	Total/NA
n-Hexane	2.4		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	0.29	J	0.50	0.14	ppb v/v	1		TO-15	Total/NA
Chloroform	0.12	J	0.20	0.059	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.70		0.20	0.052	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.066		0.035	0.024	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.8		0.20	0.071	ppb v/v	1		TO-15	Total/NA
Benzene	0.15	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.37		0.20	0.086	ppb v/v	1		TO-15	Total/NA
Toluene	0.11	J	0.20	0.054	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.079	J	0.50	0.014	ppb v/v	1		TO-15	Total/NA
Styrene	0.088	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA

Client Sample ID: SV-2
Lab Sample ID: 480-228459-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.3	J	2.5	1.1	ug/m3	1		TO-15	Total/NA
Chloromethane	0.92	J	1.0	0.68	ug/m3	1		TO-15	Total/NA
n-Butane	6.1		1.2	0.74	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	0.79	J	1.1	0.43	ug/m3	1		TO-15	Total/NA
Acetone	20		12	4.5	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.79	J	1.6	0.56	ug/m3	1		TO-15	Total/NA
n-Hexane	1.3	J	1.8	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	3.4		1.5	0.41	ug/m3	1		TO-15	Total/NA
Chloroform	0.32	J	0.98	0.29	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.30	J	0.69	0.18	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: SV-2 (Continued)
Lab Sample ID: 480-228459-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.19	J	0.22	0.15	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.6		0.93	0.33	ug/m3	1		TO-15	Total/NA
Benzene	0.25	J	0.64	0.16	ug/m3	1		TO-15	Total/NA
n-Heptane	0.58	J	0.82	0.35	ug/m3	1		TO-15	Total/NA
Toluene	0.38	J	0.75	0.20	ug/m3	1		TO-15	Total/NA
m,p-Xylene	0.43	J	2.2	0.061	ug/m3	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.26	J	0.50	0.22	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.45	J	0.50	0.33	ppb v/v	1		TO-15	Total/NA
n-Butane	2.6		0.50	0.31	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.14	J	0.20	0.077	ppb v/v	1		TO-15	Total/NA
Acetone	8.6		5.0	1.9	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.25	J	0.50	0.18	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.37	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	1.2		0.50	0.14	ppb v/v	1		TO-15	Total/NA
Chloroform	0.065	J	0.20	0.059	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.086	J	0.20	0.052	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.030	J	0.035	0.024	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.33		0.20	0.071	ppb v/v	1		TO-15	Total/NA
Benzene	0.080	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.14	J	0.20	0.086	ppb v/v	1		TO-15	Total/NA
Toluene	0.10	J	0.20	0.054	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.10	J	0.50	0.014	ppb v/v	1		TO-15	Total/NA

Client Sample ID: SV-4
Lab Sample ID: 480-228459-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.3	J	2.5	1.1	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	6.8		1.1	0.43	ug/m3	1		TO-15	Total/NA
Acetone	10	J	12	4.5	ug/m3	1		TO-15	Total/NA
Carbon disulfide	1.9		1.6	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	0.85	J	1.5	0.41	ug/m3	1		TO-15	Total/NA
Chloroform	1.4		0.98	0.29	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.20	J	0.22	0.15	ug/m3	1		TO-15	Total/NA
Benzene	0.20	J	0.64	0.16	ug/m3	1		TO-15	Total/NA
1,4-Dioxane	1.2	J	18	0.68	ug/m3	1		TO-15	Total/NA
Toluene	0.98		0.75	0.20	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.27	J	1.4	0.24	ug/m3	1		TO-15	Total/NA
m,p-Xylene	1.1	J	2.2	0.061	ug/m3	1		TO-15	Total/NA
o-Xylene	0.41	J	0.87	0.30	ug/m3	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.47	J	0.50	0.22	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		0.20	0.077	ppb v/v	1		TO-15	Total/NA
Acetone	4.2	J	5.0	1.9	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.60		0.50	0.18	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	0.29	J	0.50	0.14	ppb v/v	1		TO-15	Total/NA
Chloroform	0.28		0.20	0.059	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.032	J	0.035	0.024	ppb v/v	1		TO-15	Total/NA
Benzene	0.062	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
1,4-Dioxane	0.35	J	5.0	0.19	ppb v/v	1		TO-15	Total/NA
Toluene	0.26		0.20	0.054	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-4 (Continued)
Lab Sample ID: 480-228459-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.040	J	0.20	0.036	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.26	J	0.50	0.014	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.094	J	0.20	0.069	ppb v/v	1		TO-15	Total/NA

Client Sample ID: SV-5
Lab Sample ID: 480-228459-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.4	J	2.5	1.1	ug/m3	1		TO-15	Total/NA
n-Butane	1.1	J	1.2	0.74	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.43	ug/m3	1		TO-15	Total/NA
Acetone	13		12	4.5	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	1.7		1.5	0.41	ug/m3	1		TO-15	Total/NA
Chloroform	0.70	J	0.98	0.29	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.18	J	0.22	0.15	ug/m3	1		TO-15	Total/NA
Benzene	0.18	J	0.64	0.16	ug/m3	1		TO-15	Total/NA
Toluene	0.47	J	0.75	0.20	ug/m3	1		TO-15	Total/NA
m,p-Xylene	0.35	J	2.2	0.061	ug/m3	1		TO-15	Total/NA
Styrene	0.35	J	0.85	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.42	J	0.98	0.40	ug/m3	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.48	J	0.50	0.22	ppb v/v	1		TO-15	Total/NA
n-Butane	0.46	J	0.50	0.31	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.19		0.20	0.077	ppb v/v	1		TO-15	Total/NA
Acetone	5.4		5.0	1.9	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	0.57		0.50	0.14	ppb v/v	1		TO-15	Total/NA
Chloroform	0.14	J	0.20	0.059	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.029	J	0.035	0.024	ppb v/v	1		TO-15	Total/NA
Benzene	0.057	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
Toluene	0.13	J	0.20	0.054	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.081	J	0.50	0.014	ppb v/v	1		TO-15	Total/NA
Styrene	0.083	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.086	J	0.20	0.082	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-1
Lab Sample ID: 480-228459-1

Date Collected: 04/02/25 15:05
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**2.2**	**J**	2.5	1.1	ug/m3			04/18/25 17:32	1
Chlorodifluoromethane	**1.3**	**J**	1.8	1.3	ug/m3			04/18/25 17:32	1
1,2-Dichlorotetrafluoroethane	ND		1.4	0.53	ug/m3			04/18/25 17:32	1
Chloromethane	**1.3**		1.0	0.68	ug/m3			04/18/25 17:32	1
n-Butane	**7.1**		1.2	0.74	ug/m3			04/18/25 17:32	1
Vinyl chloride	ND		0.20	0.074	ug/m3			04/18/25 17:32	1
1,3-Butadiene	ND		0.44	0.088	ug/m3			04/18/25 17:32	1
Bromomethane	ND		0.78	0.24	ug/m3			04/18/25 17:32	1
Chloroethane	ND		1.3	0.42	ug/m3			04/18/25 17:32	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.21	ug/m3			04/18/25 17:32	1
Trichlorofluoromethane	**1.2**		1.1	0.43	ug/m3			04/18/25 17:32	1
1,1,2-Trichlorotrifluoroethane	**0.49**	**J**	1.5	0.44	ug/m3			04/18/25 17:32	1
1,1-Dichloroethene	ND		0.20	0.14	ug/m3			04/18/25 17:32	1
Acetone	**11**	**J**	12	4.5	ug/m3			04/18/25 17:32	1
Isopropyl alcohol	ND		12	5.4	ug/m3			04/18/25 17:32	1
Carbon disulfide	ND		1.6	0.56	ug/m3			04/18/25 17:32	1
3-Chloropropene	ND		1.6	0.25	ug/m3			04/18/25 17:32	1
Methylene Chloride	ND		1.7	0.66	ug/m3			04/18/25 17:32	1
tert-Butyl alcohol	ND		15	4.9	ug/m3			04/18/25 17:32	1
Methyl tert-butyl ether	ND		0.72	0.24	ug/m3			04/18/25 17:32	1
trans-1,2-Dichloroethene	ND		0.79	0.079	ug/m3			04/18/25 17:32	1
n-Hexane	**8.5**		1.8	0.56	ug/m3			04/18/25 17:32	1
1,1-Dichloroethane	ND		0.81	0.073	ug/m3			04/18/25 17:32	1
Methyl Ethyl Ketone (2-Butanone)	**0.86**	**J**	1.5	0.41	ug/m3			04/18/25 17:32	1
cis-1,2-Dichloroethene	ND		0.20	0.13	ug/m3			04/18/25 17:32	1
Chloroform	**0.61**	**J**	0.98	0.29	ug/m3			04/18/25 17:32	1
Tetrahydrofuran	ND		15	5.0	ug/m3			04/18/25 17:32	1
1,1,1-Trichloroethane	ND		1.1	0.40	ug/m3			04/18/25 17:32	1
Cyclohexane	**2.4**		0.69	0.18	ug/m3			04/18/25 17:32	1
Carbon tetrachloride	**0.41**		0.22	0.15	ug/m3			04/18/25 17:32	1
2,2,4-Trimethylpentane	**13**		0.93	0.33	ug/m3			04/18/25 17:32	1
Benzene	**0.48**	**J**	0.64	0.16	ug/m3			04/18/25 17:32	1
1,2-Dichloroethane	ND		0.81	0.30	ug/m3			04/18/25 17:32	1
n-Heptane	**1.5**		0.82	0.35	ug/m3			04/18/25 17:32	1
Trichloroethene	ND		0.20	0.16	ug/m3			04/18/25 17:32	1
Methyl methacrylate	ND		2.0	0.53	ug/m3			04/18/25 17:32	1
1,2-Dichloropropane	ND		0.92	0.25	ug/m3			04/18/25 17:32	1
1,4-Dioxane	ND		18	0.68	ug/m3			04/18/25 17:32	1
Bromodichloromethane	ND		1.3	0.39	ug/m3			04/18/25 17:32	1
cis-1,3-Dichloropropene	ND		0.91	0.25	ug/m3			04/18/25 17:32	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		2.0	0.78	ug/m3			04/18/25 17:32	1
Toluene	**0.43**	**J**	0.75	0.20	ug/m3			04/18/25 17:32	1
trans-1,3-Dichloropropene	ND		0.91	0.28	ug/m3			04/18/25 17:32	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			04/18/25 17:32	1
Tetrachloroethene	ND		1.4	0.24	ug/m3			04/18/25 17:32	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	0.82	ug/m3			04/18/25 17:32	1
Dibromochloromethane	ND		1.7	0.45	ug/m3			04/18/25 17:32	1
1,2-Dibromoethane	ND		1.5	0.35	ug/m3			04/18/25 17:32	1

Client Sample ID: SV-1
Lab Sample ID: 480-228459-1
Date Collected: 04/02/25 15:05
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.92	0.22	ug/m3			04/18/25 17:32	1
Ethylbenzene	ND		0.87	0.22	ug/m3			04/18/25 17:32	1
m,p-Xylene	**0.34**	**J**	2.2	0.061	ug/m3			04/18/25 17:32	1
o-Xylene	ND		0.87	0.30	ug/m3			04/18/25 17:32	1
Styrene	**0.38**	**J**	0.85	0.24	ug/m3			04/18/25 17:32	1
Bromoform	ND		2.1	0.60	ug/m3			04/18/25 17:32	1
Cumene	ND		0.98	0.35	ug/m3			04/18/25 17:32	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			04/18/25 17:32	1
n-Propylbenzene	ND		0.98	0.30	ug/m3			04/18/25 17:32	1
4-Ethyltoluene	ND		0.98	0.33	ug/m3			04/18/25 17:32	1
1,3,5-Trimethylbenzene	ND		0.98	0.33	ug/m3			04/18/25 17:32	1
2-Chlorotoluene	ND		1.0	0.30	ug/m3			04/18/25 17:32	1
tert-Butylbenzene	ND		1.1	0.38	ug/m3			04/18/25 17:32	1
1,2,4-Trimethylbenzene	ND		0.98	0.40	ug/m3			04/18/25 17:32	1
sec-Butylbenzene	ND		1.1	0.40	ug/m3			04/18/25 17:32	1
4-Isopropyltoluene	ND		1.1	0.43	ug/m3			04/18/25 17:32	1
1,3-Dichlorobenzene	ND		1.2	0.38	ug/m3			04/18/25 17:32	1
1,4-Dichlorobenzene	ND		1.2	0.42	ug/m3			04/18/25 17:32	1
Benzyl chloride	ND		1.0	0.38	ug/m3			04/18/25 17:32	1
n-Butylbenzene	ND		1.1	0.38	ug/m3			04/18/25 17:32	1
1,2-Dichlorobenzene	ND		1.2	0.40	ug/m3			04/18/25 17:32	1
1,2,4-Trichlorobenzene	ND		3.7	2.2	ug/m3			04/18/25 17:32	1
Hexachlorobutadiene	ND		2.1	0.83	ug/m3			04/18/25 17:32	1
Naphthalene	ND		2.0	0.58	ug/m3			04/18/25 17:32	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.44**	**J**	0.50	0.22	ppb v/v			04/18/25 17:32	1
Chlorodifluoromethane	**0.36**	**J**	0.50	0.36	ppb v/v			04/18/25 17:32	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.076	ppb v/v			04/18/25 17:32	1
Chloromethane	**0.62**		0.50	0.33	ppb v/v			04/18/25 17:32	1
n-Butane	**3.0**		0.50	0.31	ppb v/v			04/18/25 17:32	1
Vinyl chloride	ND		0.078	0.029	ppb v/v			04/18/25 17:32	1
1,3-Butadiene	ND		0.20	0.040	ppb v/v			04/18/25 17:32	1
Bromomethane	ND		0.20	0.062	ppb v/v			04/18/25 17:32	1
Chloroethane	ND		0.50	0.16	ppb v/v			04/18/25 17:32	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.048	ppb v/v			04/18/25 17:32	1
Trichlorofluoromethane	**0.21**		0.20	0.077	ppb v/v			04/18/25 17:32	1
1,1,2-Trichlorotrifluoroethane	**0.064**	**J**	0.20	0.057	ppb v/v			04/18/25 17:32	1
1,1-Dichloroethene	ND		0.050	0.035	ppb v/v			04/18/25 17:32	1
Acetone	**4.5**	**J**	5.0	1.9	ppb v/v			04/18/25 17:32	1
Isopropyl alcohol	ND		5.0	2.2	ppb v/v			04/18/25 17:32	1
Carbon disulfide	ND		0.50	0.18	ppb v/v			04/18/25 17:32	1
3-Chloropropene	ND		0.50	0.081	ppb v/v			04/18/25 17:32	1
Methylene Chloride	ND		0.50	0.19	ppb v/v			04/18/25 17:32	1
tert-Butyl alcohol	ND		5.0	1.6	ppb v/v			04/18/25 17:32	1
Methyl tert-butyl ether	ND		0.20	0.066	ppb v/v			04/18/25 17:32	1
trans-1,2-Dichloroethene	ND		0.20	0.020	ppb v/v			04/18/25 17:32	1
n-Hexane	**2.4**		0.50	0.16	ppb v/v			04/18/25 17:32	1
1,1-Dichloroethane	ND		0.20	0.018	ppb v/v			04/18/25 17:32	1

Client Sample ID: SV-1
Lab Sample ID: 480-228459-1
Date Collected: 04/02/25 15:05
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	**0.29**	**J**	0.50	0.14	ppb v/v			04/18/25 17:32	1
cis-1,2-Dichloroethene	ND		0.050	0.032	ppb v/v			04/18/25 17:32	1
Chloroform	**0.12**	**J**	0.20	0.059	ppb v/v			04/18/25 17:32	1
Tetrahydrofuran	ND		5.0	1.7	ppb v/v			04/18/25 17:32	1
1,1,1-Trichloroethane	ND		0.20	0.073	ppb v/v			04/18/25 17:32	1
Cyclohexane	**0.70**		0.20	0.052	ppb v/v			04/18/25 17:32	1
Carbon tetrachloride	**0.066**		0.035	0.024	ppb v/v			04/18/25 17:32	1
2,2,4-Trimethylpentane	**2.8**		0.20	0.071	ppb v/v			04/18/25 17:32	1
Benzene	**0.15**	**J**	0.20	0.051	ppb v/v			04/18/25 17:32	1
1,2-Dichloroethane	ND		0.20	0.074	ppb v/v			04/18/25 17:32	1
n-Heptane	**0.37**		0.20	0.086	ppb v/v			04/18/25 17:32	1
Trichloroethene	ND		0.037	0.029	ppb v/v			04/18/25 17:32	1
Methyl methacrylate	ND		0.50	0.13	ppb v/v			04/18/25 17:32	1
1,2-Dichloropropane	ND		0.20	0.055	ppb v/v			04/18/25 17:32	1
1,4-Dioxane	ND		5.0	0.19	ppb v/v			04/18/25 17:32	1
Bromodichloromethane	ND		0.20	0.058	ppb v/v			04/18/25 17:32	1
cis-1,3-Dichloropropene	ND		0.20	0.056	ppb v/v			04/18/25 17:32	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		0.50	0.19	ppb v/v			04/18/25 17:32	1
Toluene	**0.11**	**J**	0.20	0.054	ppb v/v			04/18/25 17:32	1
trans-1,3-Dichloropropene	ND		0.20	0.062	ppb v/v			04/18/25 17:32	1
1,1,2-Trichloroethane	ND		0.20	0.053	ppb v/v			04/18/25 17:32	1
Tetrachloroethene	ND		0.20	0.036	ppb v/v			04/18/25 17:32	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.20	ppb v/v			04/18/25 17:32	1
Dibromochloromethane	ND		0.20	0.053	ppb v/v			04/18/25 17:32	1
1,2-Dibromoethane	ND		0.20	0.045	ppb v/v			04/18/25 17:32	1
Chlorobenzene	ND		0.20	0.047	ppb v/v			04/18/25 17:32	1
Ethylbenzene	ND		0.20	0.051	ppb v/v			04/18/25 17:32	1
m,p-Xylene	**0.079**	**J**	0.50	0.014	ppb v/v			04/18/25 17:32	1
o-Xylene	ND		0.20	0.069	ppb v/v			04/18/25 17:32	1
Styrene	**0.088**	**J**	0.20	0.056	ppb v/v			04/18/25 17:32	1
Bromoform	ND		0.20	0.058	ppb v/v			04/18/25 17:32	1
Cumene	ND		0.20	0.072	ppb v/v			04/18/25 17:32	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			04/18/25 17:32	1
n-Propylbenzene	ND		0.20	0.062	ppb v/v			04/18/25 17:32	1
4-Ethyltoluene	ND		0.20	0.068	ppb v/v			04/18/25 17:32	1
1,3,5-Trimethylbenzene	ND		0.20	0.068	ppb v/v			04/18/25 17:32	1
2-Chlorotoluene	ND		0.20	0.058	ppb v/v			04/18/25 17:32	1
tert-Butylbenzene	ND		0.20	0.070	ppb v/v			04/18/25 17:32	1
1,2,4-Trimethylbenzene	ND		0.20	0.082	ppb v/v			04/18/25 17:32	1
sec-Butylbenzene	ND		0.20	0.072	ppb v/v			04/18/25 17:32	1
4-Isopropyltoluene	ND		0.20	0.078	ppb v/v			04/18/25 17:32	1
1,3-Dichlorobenzene	ND		0.20	0.063	ppb v/v			04/18/25 17:32	1
1,4-Dichlorobenzene	ND		0.20	0.070	ppb v/v			04/18/25 17:32	1
Benzyl chloride	ND		0.20	0.074	ppb v/v			04/18/25 17:32	1
n-Butylbenzene	ND		0.20	0.070	ppb v/v			04/18/25 17:32	1
1,2-Dichlorobenzene	ND		0.20	0.066	ppb v/v			04/18/25 17:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.30	ppb v/v			04/18/25 17:32	1
Hexachlorobutadiene	ND		0.20	0.078	ppb v/v			04/18/25 17:32	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Client Sample ID: SV-1
Lab Sample ID: 480-228459-1
Date Collected: 04/02/25 15:05
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.38	0.11	ppb v/v			04/18/25 17:32	1

Client Sample ID: SV-2
Lab Sample ID: 480-228459-2

Date Collected: 04/02/25 15:00
Matrix: Air

Date Received: 04/05/25 09:40

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.3**	**J**	2.5	1.1	ug/m3			04/18/25 18:29	1
Chlorodifluoromethane	ND		1.8	1.3	ug/m3			04/18/25 18:29	1
1,2-Dichlorotetrafluoroethane	ND		1.4	0.53	ug/m3			04/18/25 18:29	1
Chloromethane	**0.92**	**J**	1.0	0.68	ug/m3			04/18/25 18:29	1
n-Butane	**6.1**		1.2	0.74	ug/m3			04/18/25 18:29	1
Vinyl chloride	ND		0.20	0.074	ug/m3			04/18/25 18:29	1
1,3-Butadiene	ND		0.44	0.088	ug/m3			04/18/25 18:29	1
Bromomethane	ND		0.78	0.24	ug/m3			04/18/25 18:29	1
Chloroethane	ND		1.3	0.42	ug/m3			04/18/25 18:29	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.21	ug/m3			04/18/25 18:29	1
Trichlorofluoromethane	**0.79**	**J**	1.1	0.43	ug/m3			04/18/25 18:29	1
1,1,2-Trichlorotrifluoroethane	ND		1.5	0.44	ug/m3			04/18/25 18:29	1
1,1-Dichloroethene	ND		0.20	0.14	ug/m3			04/18/25 18:29	1
Acetone	**20**		12	4.5	ug/m3			04/18/25 18:29	1
Isopropyl alcohol	ND		12	5.4	ug/m3			04/18/25 18:29	1
Carbon disulfide	**0.79**	**J**	1.6	0.56	ug/m3			04/18/25 18:29	1
3-Chloropropene	ND		1.6	0.25	ug/m3			04/18/25 18:29	1
Methylene Chloride	ND		1.7	0.66	ug/m3			04/18/25 18:29	1
tert-Butyl alcohol	ND		15	4.9	ug/m3			04/18/25 18:29	1
Methyl tert-butyl ether	ND		0.72	0.24	ug/m3			04/18/25 18:29	1
trans-1,2-Dichloroethene	ND		0.79	0.079	ug/m3			04/18/25 18:29	1
n-Hexane	**1.3**	**J**	1.8	0.56	ug/m3			04/18/25 18:29	1
1,1-Dichloroethane	ND		0.81	0.073	ug/m3			04/18/25 18:29	1
Methyl Ethyl Ketone (2-Butanone)	**3.4**		1.5	0.41	ug/m3			04/18/25 18:29	1
cis-1,2-Dichloroethene	ND		0.20	0.13	ug/m3			04/18/25 18:29	1
Chloroform	**0.32**	**J**	0.98	0.29	ug/m3			04/18/25 18:29	1
Tetrahydrofuran	ND		15	5.0	ug/m3			04/18/25 18:29	1
1,1,1-Trichloroethane	ND		1.1	0.40	ug/m3			04/18/25 18:29	1
Cyclohexane	**0.30**	**J**	0.69	0.18	ug/m3			04/18/25 18:29	1
Carbon tetrachloride	**0.19**	**J**	0.22	0.15	ug/m3			04/18/25 18:29	1
2,2,4-Trimethylpentane	**1.6**		0.93	0.33	ug/m3			04/18/25 18:29	1
Benzene	**0.25**	**J**	0.64	0.16	ug/m3			04/18/25 18:29	1
1,2-Dichloroethane	ND		0.81	0.30	ug/m3			04/18/25 18:29	1
n-Heptane	**0.58**	**J**	0.82	0.35	ug/m3			04/18/25 18:29	1
Trichloroethene	ND		0.20	0.16	ug/m3			04/18/25 18:29	1
Methyl methacrylate	ND		2.0	0.53	ug/m3			04/18/25 18:29	1
1,2-Dichloropropane	ND		0.92	0.25	ug/m3			04/18/25 18:29	1
1,4-Dioxane	ND		18	0.68	ug/m3			04/18/25 18:29	1
Bromodichloromethane	ND		1.3	0.39	ug/m3			04/18/25 18:29	1
cis-1,3-Dichloropropene	ND		0.91	0.25	ug/m3			04/18/25 18:29	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		2.0	0.78	ug/m3			04/18/25 18:29	1
Toluene	**0.38**	**J**	0.75	0.20	ug/m3			04/18/25 18:29	1
trans-1,3-Dichloropropene	ND		0.91	0.28	ug/m3			04/18/25 18:29	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			04/18/25 18:29	1
Tetrachloroethene	ND		1.4	0.24	ug/m3			04/18/25 18:29	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	0.82	ug/m3			04/18/25 18:29	1
Dibromochloromethane	ND		1.7	0.45	ug/m3			04/18/25 18:29	1
1,2-Dibromoethane	ND		1.5	0.35	ug/m3			04/18/25 18:29	1

Client Sample ID: SV-2
Lab Sample ID: 480-228459-2
Date Collected: 04/02/25 15:00
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.92	0.22	ug/m3			04/18/25 18:29	1
Ethylbenzene	ND		0.87	0.22	ug/m3			04/18/25 18:29	1
m,p-Xylene	**0.43**	**J**	2.2	0.061	ug/m3			04/18/25 18:29	1
o-Xylene	ND		0.87	0.30	ug/m3			04/18/25 18:29	1
Styrene	ND		0.85	0.24	ug/m3			04/18/25 18:29	1
Bromoform	ND		2.1	0.60	ug/m3			04/18/25 18:29	1
Cumene	ND		0.98	0.35	ug/m3			04/18/25 18:29	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			04/18/25 18:29	1
n-Propylbenzene	ND		0.98	0.30	ug/m3			04/18/25 18:29	1
4-Ethyltoluene	ND		0.98	0.33	ug/m3			04/18/25 18:29	1
1,3,5-Trimethylbenzene	ND		0.98	0.33	ug/m3			04/18/25 18:29	1
2-Chlorotoluene	ND		1.0	0.30	ug/m3			04/18/25 18:29	1
tert-Butylbenzene	ND		1.1	0.38	ug/m3			04/18/25 18:29	1
1,2,4-Trimethylbenzene	ND		0.98	0.40	ug/m3			04/18/25 18:29	1
sec-Butylbenzene	ND		1.1	0.40	ug/m3			04/18/25 18:29	1
4-Isopropyltoluene	ND		1.1	0.43	ug/m3			04/18/25 18:29	1
1,3-Dichlorobenzene	ND		1.2	0.38	ug/m3			04/18/25 18:29	1
1,4-Dichlorobenzene	ND		1.2	0.42	ug/m3			04/18/25 18:29	1
Benzyl chloride	ND		1.0	0.38	ug/m3			04/18/25 18:29	1
n-Butylbenzene	ND		1.1	0.38	ug/m3			04/18/25 18:29	1
1,2-Dichlorobenzene	ND		1.2	0.40	ug/m3			04/18/25 18:29	1
1,2,4-Trichlorobenzene	ND		3.7	2.2	ug/m3			04/18/25 18:29	1
Hexachlorobutadiene	ND		2.1	0.83	ug/m3			04/18/25 18:29	1
Naphthalene	ND		2.0	0.58	ug/m3			04/18/25 18:29	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.26**	**J**	0.50	0.22	ppb v/v			04/18/25 18:29	1
Chlorodifluoromethane	ND		0.50	0.36	ppb v/v			04/18/25 18:29	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.076	ppb v/v			04/18/25 18:29	1
Chloromethane	**0.45**	**J**	0.50	0.33	ppb v/v			04/18/25 18:29	1
n-Butane	**2.6**		0.50	0.31	ppb v/v			04/18/25 18:29	1
Vinyl chloride	ND		0.078	0.029	ppb v/v			04/18/25 18:29	1
1,3-Butadiene	ND		0.20	0.040	ppb v/v			04/18/25 18:29	1
Bromomethane	ND		0.20	0.062	ppb v/v			04/18/25 18:29	1
Chloroethane	ND		0.50	0.16	ppb v/v			04/18/25 18:29	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.048	ppb v/v			04/18/25 18:29	1
Trichlorofluoromethane	**0.14**	**J**	0.20	0.077	ppb v/v			04/18/25 18:29	1
1,1,2-Trichlorotrifluoroethane	ND		0.20	0.057	ppb v/v			04/18/25 18:29	1
1,1-Dichloroethene	ND		0.050	0.035	ppb v/v			04/18/25 18:29	1
Acetone	**8.6**		5.0	1.9	ppb v/v			04/18/25 18:29	1
Isopropyl alcohol	ND		5.0	2.2	ppb v/v			04/18/25 18:29	1
Carbon disulfide	**0.25**	**J**	0.50	0.18	ppb v/v			04/18/25 18:29	1
3-Chloropropene	ND		0.50	0.081	ppb v/v			04/18/25 18:29	1
Methylene Chloride	ND		0.50	0.19	ppb v/v			04/18/25 18:29	1
tert-Butyl alcohol	ND		5.0	1.6	ppb v/v			04/18/25 18:29	1
Methyl tert-butyl ether	ND		0.20	0.066	ppb v/v			04/18/25 18:29	1
trans-1,2-Dichloroethene	ND		0.20	0.020	ppb v/v			04/18/25 18:29	1
n-Hexane	**0.37**	**J**	0.50	0.16	ppb v/v			04/18/25 18:29	1
1,1-Dichloroethane	ND		0.20	0.018	ppb v/v			04/18/25 18:29	1

Client Sample ID: SV-2
Lab Sample ID: 480-228459-2
Date Collected: 04/02/25 15:00
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	**1.2**		0.50	0.14	ppb v/v			04/18/25 18:29	1
cis-1,2-Dichloroethene	ND		0.050	0.032	ppb v/v			04/18/25 18:29	1
Chloroform	**0.065**	**J**	0.20	0.059	ppb v/v			04/18/25 18:29	1
Tetrahydrofuran	ND		5.0	1.7	ppb v/v			04/18/25 18:29	1
1,1,1-Trichloroethane	ND		0.20	0.073	ppb v/v			04/18/25 18:29	1
Cyclohexane	**0.086**	**J**	0.20	0.052	ppb v/v			04/18/25 18:29	1
Carbon tetrachloride	**0.030**	**J**	0.035	0.024	ppb v/v			04/18/25 18:29	1
2,2,4-Trimethylpentane	**0.33**		0.20	0.071	ppb v/v			04/18/25 18:29	1
Benzene	**0.080**	**J**	0.20	0.051	ppb v/v			04/18/25 18:29	1
1,2-Dichloroethane	ND		0.20	0.074	ppb v/v			04/18/25 18:29	1
n-Heptane	**0.14**	**J**	0.20	0.086	ppb v/v			04/18/25 18:29	1
Trichloroethene	ND		0.037	0.029	ppb v/v			04/18/25 18:29	1
Methyl methacrylate	ND		0.50	0.13	ppb v/v			04/18/25 18:29	1
1,2-Dichloropropane	ND		0.20	0.055	ppb v/v			04/18/25 18:29	1
1,4-Dioxane	ND		5.0	0.19	ppb v/v			04/18/25 18:29	1
Bromodichloromethane	ND		0.20	0.058	ppb v/v			04/18/25 18:29	1
cis-1,3-Dichloropropene	ND		0.20	0.056	ppb v/v			04/18/25 18:29	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		0.50	0.19	ppb v/v			04/18/25 18:29	1
Toluene	**0.10**	**J**	0.20	0.054	ppb v/v			04/18/25 18:29	1
trans-1,3-Dichloropropene	ND		0.20	0.062	ppb v/v			04/18/25 18:29	1
1,1,2-Trichloroethane	ND		0.20	0.053	ppb v/v			04/18/25 18:29	1
Tetrachloroethene	ND		0.20	0.036	ppb v/v			04/18/25 18:29	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.20	ppb v/v			04/18/25 18:29	1
Dibromochloromethane	ND		0.20	0.053	ppb v/v			04/18/25 18:29	1
1,2-Dibromoethane	ND		0.20	0.045	ppb v/v			04/18/25 18:29	1
Chlorobenzene	ND		0.20	0.047	ppb v/v			04/18/25 18:29	1
Ethylbenzene	ND		0.20	0.051	ppb v/v			04/18/25 18:29	1
m,p-Xylene	**0.10**	**J**	0.50	0.014	ppb v/v			04/18/25 18:29	1
o-Xylene	ND		0.20	0.069	ppb v/v			04/18/25 18:29	1
Styrene	ND		0.20	0.056	ppb v/v			04/18/25 18:29	1
Bromoform	ND		0.20	0.058	ppb v/v			04/18/25 18:29	1
Cumene	ND		0.20	0.072	ppb v/v			04/18/25 18:29	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			04/18/25 18:29	1
n-Propylbenzene	ND		0.20	0.062	ppb v/v			04/18/25 18:29	1
4-Ethyltoluene	ND		0.20	0.068	ppb v/v			04/18/25 18:29	1
1,3,5-Trimethylbenzene	ND		0.20	0.068	ppb v/v			04/18/25 18:29	1
2-Chlorotoluene	ND		0.20	0.058	ppb v/v			04/18/25 18:29	1
tert-Butylbenzene	ND		0.20	0.070	ppb v/v			04/18/25 18:29	1
1,2,4-Trimethylbenzene	ND		0.20	0.082	ppb v/v			04/18/25 18:29	1
sec-Butylbenzene	ND		0.20	0.072	ppb v/v			04/18/25 18:29	1
4-Isopropyltoluene	ND		0.20	0.078	ppb v/v			04/18/25 18:29	1
1,3-Dichlorobenzene	ND		0.20	0.063	ppb v/v			04/18/25 18:29	1
1,4-Dichlorobenzene	ND		0.20	0.070	ppb v/v			04/18/25 18:29	1
Benzyl chloride	ND		0.20	0.074	ppb v/v			04/18/25 18:29	1
n-Butylbenzene	ND		0.20	0.070	ppb v/v			04/18/25 18:29	1
1,2-Dichlorobenzene	ND		0.20	0.066	ppb v/v			04/18/25 18:29	1
1,2,4-Trichlorobenzene	ND		0.50	0.30	ppb v/v			04/18/25 18:29	1
Hexachlorobutadiene	ND		0.20	0.078	ppb v/v			04/18/25 18:29	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Client Sample ID: SV-2
Lab Sample ID: 480-228459-2
Date Collected: 04/02/25 15:00
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.38	0.11	ppb v/v			04/18/25 18:29	1

Client Sample ID: SV-4
Lab Sample ID: 480-228459-3

Date Collected: 04/02/25 14:00
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**2.3**	**J**	2.5	1.1	ug/m3			04/19/25 22:59	1
Chlorodifluoromethane	ND		1.8	1.3	ug/m3			04/19/25 22:59	1
1,2-Dichlorotetrafluoroethane	ND		1.4	0.53	ug/m3			04/19/25 22:59	1
Chloromethane	ND		1.0	0.68	ug/m3			04/19/25 22:59	1
n-Butane	ND		1.2	0.74	ug/m3			04/19/25 22:59	1
Vinyl chloride	ND		0.20	0.074	ug/m3			04/19/25 22:59	1
1,3-Butadiene	ND		0.44	0.088	ug/m3			04/19/25 22:59	1
Bromomethane	ND		0.78	0.24	ug/m3			04/19/25 22:59	1
Chloroethane	ND		1.3	0.42	ug/m3			04/19/25 22:59	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.21	ug/m3			04/19/25 22:59	1
Trichlorofluoromethane	**6.8**		1.1	0.43	ug/m3			04/19/25 22:59	1
1,1,2-Trichlorotrifluoroethane	ND		1.5	0.44	ug/m3			04/19/25 22:59	1
1,1-Dichloroethene	ND		0.20	0.14	ug/m3			04/19/25 22:59	1
Acetone	**10**	**J**	12	4.5	ug/m3			04/19/25 22:59	1
Isopropyl alcohol	ND		12	5.4	ug/m3			04/19/25 22:59	1
Carbon disulfide	**1.9**		1.6	0.56	ug/m3			04/19/25 22:59	1
3-Chloropropene	ND		1.6	0.25	ug/m3			04/19/25 22:59	1
Methylene Chloride	ND		1.7	0.66	ug/m3			04/19/25 22:59	1
tert-Butyl alcohol	ND		15	4.9	ug/m3			04/19/25 22:59	1
Methyl tert-butyl ether	ND		0.72	0.24	ug/m3			04/19/25 22:59	1
trans-1,2-Dichloroethene	ND		0.79	0.079	ug/m3			04/19/25 22:59	1
n-Hexane	ND		1.8	0.56	ug/m3			04/19/25 22:59	1
1,1-Dichloroethane	ND		0.81	0.073	ug/m3			04/19/25 22:59	1
Methyl Ethyl Ketone (2-Butanone)	**0.85**	**J**	1.5	0.41	ug/m3			04/19/25 22:59	1
cis-1,2-Dichloroethene	ND		0.20	0.13	ug/m3			04/19/25 22:59	1
Chloroform	**1.4**		0.98	0.29	ug/m3			04/19/25 22:59	1
Tetrahydrofuran	ND		15	5.0	ug/m3			04/19/25 22:59	1
1,1,1-Trichloroethane	ND		1.1	0.40	ug/m3			04/19/25 22:59	1
Cyclohexane	ND		0.69	0.18	ug/m3			04/19/25 22:59	1
Carbon tetrachloride	**0.20**	**J**	0.22	0.15	ug/m3			04/19/25 22:59	1
2,2,4-Trimethylpentane	ND		0.93	0.33	ug/m3			04/19/25 22:59	1
Benzene	**0.20**	**J**	0.64	0.16	ug/m3			04/19/25 22:59	1
1,2-Dichloroethane	ND		0.81	0.30	ug/m3			04/19/25 22:59	1
n-Heptane	ND		0.82	0.35	ug/m3			04/19/25 22:59	1
Trichloroethene	ND		0.20	0.16	ug/m3			04/19/25 22:59	1
Methyl methacrylate	ND		2.0	0.53	ug/m3			04/19/25 22:59	1
1,2-Dichloropropane	ND		0.92	0.25	ug/m3			04/19/25 22:59	1
1,4-Dioxane	**1.2**	**J**	18	0.68	ug/m3			04/19/25 22:59	1
Bromodichloromethane	ND		1.3	0.39	ug/m3			04/19/25 22:59	1
cis-1,3-Dichloropropene	ND		0.91	0.25	ug/m3			04/19/25 22:59	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		2.0	0.78	ug/m3			04/19/25 22:59	1
Toluene	**0.98**		0.75	0.20	ug/m3			04/19/25 22:59	1
trans-1,3-Dichloropropene	ND		0.91	0.28	ug/m3			04/19/25 22:59	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			04/19/25 22:59	1
Tetrachloroethene	**0.27**	**J**	1.4	0.24	ug/m3			04/19/25 22:59	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	0.82	ug/m3			04/19/25 22:59	1
Dibromochloromethane	ND		1.7	0.45	ug/m3			04/19/25 22:59	1
1,2-Dibromoethane	ND		1.5	0.35	ug/m3			04/19/25 22:59	1

Client Sample ID: SV-4
Lab Sample ID: 480-228459-3
Date Collected: 04/02/25 14:00
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.92	0.22	ug/m3			04/19/25 22:59	1
Ethylbenzene	ND		0.87	0.22	ug/m3			04/19/25 22:59	1
m,p-Xylene	**1.1**	**J**	2.2	0.061	ug/m3			04/19/25 22:59	1
o-Xylene	**0.41**	**J**	0.87	0.30	ug/m3			04/19/25 22:59	1
Styrene	ND		0.85	0.24	ug/m3			04/19/25 22:59	1
Bromoform	ND		2.1	0.60	ug/m3			04/19/25 22:59	1
Cumene	ND		0.98	0.35	ug/m3			04/19/25 22:59	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			04/19/25 22:59	1
n-Propylbenzene	ND		0.98	0.30	ug/m3			04/19/25 22:59	1
4-Ethyltoluene	ND		0.98	0.33	ug/m3			04/19/25 22:59	1
1,3,5-Trimethylbenzene	ND		0.98	0.33	ug/m3			04/19/25 22:59	1
2-Chlorotoluene	ND		1.0	0.30	ug/m3			04/19/25 22:59	1
tert-Butylbenzene	ND		1.1	0.38	ug/m3			04/19/25 22:59	1
1,2,4-Trimethylbenzene	ND		0.98	0.40	ug/m3			04/19/25 22:59	1
sec-Butylbenzene	ND		1.1	0.40	ug/m3			04/19/25 22:59	1
4-Isopropyltoluene	ND		1.1	0.43	ug/m3			04/19/25 22:59	1
1,3-Dichlorobenzene	ND		1.2	0.38	ug/m3			04/19/25 22:59	1
1,4-Dichlorobenzene	ND		1.2	0.42	ug/m3			04/19/25 22:59	1
Benzyl chloride	ND		1.0	0.38	ug/m3			04/19/25 22:59	1
n-Butylbenzene	ND		1.1	0.38	ug/m3			04/19/25 22:59	1
1,2-Dichlorobenzene	ND		1.2	0.40	ug/m3			04/19/25 22:59	1
1,2,4-Trichlorobenzene	ND		3.7	2.2	ug/m3			04/19/25 22:59	1
Hexachlorobutadiene	ND		2.1	0.83	ug/m3			04/19/25 22:59	1
Naphthalene	ND		2.0	0.58	ug/m3			04/19/25 22:59	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.47**	**J**	0.50	0.22	ppb v/v			04/19/25 22:59	1
Chlorodifluoromethane	ND		0.50	0.36	ppb v/v			04/19/25 22:59	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.076	ppb v/v			04/19/25 22:59	1
Chloromethane	ND		0.50	0.33	ppb v/v			04/19/25 22:59	1
n-Butane	ND		0.50	0.31	ppb v/v			04/19/25 22:59	1
Vinyl chloride	ND		0.078	0.029	ppb v/v			04/19/25 22:59	1
1,3-Butadiene	ND		0.20	0.040	ppb v/v			04/19/25 22:59	1
Bromomethane	ND		0.20	0.062	ppb v/v			04/19/25 22:59	1
Chloroethane	ND		0.50	0.16	ppb v/v			04/19/25 22:59	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.048	ppb v/v			04/19/25 22:59	1
Trichlorofluoromethane	**1.2**		0.20	0.077	ppb v/v			04/19/25 22:59	1
1,1,2-Trichlorotrifluoroethane	ND		0.20	0.057	ppb v/v			04/19/25 22:59	1
1,1-Dichloroethene	ND		0.050	0.035	ppb v/v			04/19/25 22:59	1
Acetone	**4.2**	**J**	5.0	1.9	ppb v/v			04/19/25 22:59	1
Isopropyl alcohol	ND		5.0	2.2	ppb v/v			04/19/25 22:59	1
Carbon disulfide	**0.60**		0.50	0.18	ppb v/v			04/19/25 22:59	1
3-Chloropropene	ND		0.50	0.081	ppb v/v			04/19/25 22:59	1
Methylene Chloride	ND		0.50	0.19	ppb v/v			04/19/25 22:59	1
tert-Butyl alcohol	ND		5.0	1.6	ppb v/v			04/19/25 22:59	1
Methyl tert-butyl ether	ND		0.20	0.066	ppb v/v			04/19/25 22:59	1
trans-1,2-Dichloroethene	ND		0.20	0.020	ppb v/v			04/19/25 22:59	1
n-Hexane	ND		0.50	0.16	ppb v/v			04/19/25 22:59	1
1,1-Dichloroethane	ND		0.20	0.018	ppb v/v			04/19/25 22:59	1

Client Sample ID: SV-4
Lab Sample ID: 480-228459-3
Date Collected: 04/02/25 14:00
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	**0.29**	**J**	0.50	0.14	ppb v/v			04/19/25 22:59	1
cis-1,2-Dichloroethene	ND		0.050	0.032	ppb v/v			04/19/25 22:59	1
Chloroform	**0.28**		0.20	0.059	ppb v/v			04/19/25 22:59	1
Tetrahydrofuran	ND		5.0	1.7	ppb v/v			04/19/25 22:59	1
1,1,1-Trichloroethane	ND		0.20	0.073	ppb v/v			04/19/25 22:59	1
Cyclohexane	ND		0.20	0.052	ppb v/v			04/19/25 22:59	1
Carbon tetrachloride	**0.032**	**J**	0.035	0.024	ppb v/v			04/19/25 22:59	1
2,2,4-Trimethylpentane	ND		0.20	0.071	ppb v/v			04/19/25 22:59	1
Benzene	**0.062**	**J**	0.20	0.051	ppb v/v			04/19/25 22:59	1
1,2-Dichloroethane	ND		0.20	0.074	ppb v/v			04/19/25 22:59	1
n-Heptane	ND		0.20	0.086	ppb v/v			04/19/25 22:59	1
Trichloroethene	ND		0.037	0.029	ppb v/v			04/19/25 22:59	1
Methyl methacrylate	ND		0.50	0.13	ppb v/v			04/19/25 22:59	1
1,2-Dichloropropane	ND		0.20	0.055	ppb v/v			04/19/25 22:59	1
1,4-Dioxane	**0.35**	**J**	5.0	0.19	ppb v/v			04/19/25 22:59	1
Bromodichloromethane	ND		0.20	0.058	ppb v/v			04/19/25 22:59	1
cis-1,3-Dichloropropene	ND		0.20	0.056	ppb v/v			04/19/25 22:59	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		0.50	0.19	ppb v/v			04/19/25 22:59	1
Toluene	**0.26**		0.20	0.054	ppb v/v			04/19/25 22:59	1
trans-1,3-Dichloropropene	ND		0.20	0.062	ppb v/v			04/19/25 22:59	1
1,1,2-Trichloroethane	ND		0.20	0.053	ppb v/v			04/19/25 22:59	1
Tetrachloroethene	**0.040**	**J**	0.20	0.036	ppb v/v			04/19/25 22:59	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.20	ppb v/v			04/19/25 22:59	1
Dibromochloromethane	ND		0.20	0.053	ppb v/v			04/19/25 22:59	1
1,2-Dibromoethane	ND		0.20	0.045	ppb v/v			04/19/25 22:59	1
Chlorobenzene	ND		0.20	0.047	ppb v/v			04/19/25 22:59	1
Ethylbenzene	ND		0.20	0.051	ppb v/v			04/19/25 22:59	1
m,p-Xylene	**0.26**	**J**	0.50	0.014	ppb v/v			04/19/25 22:59	1
o-Xylene	**0.094**	**J**	0.20	0.069	ppb v/v			04/19/25 22:59	1
Styrene	ND		0.20	0.056	ppb v/v			04/19/25 22:59	1
Bromoform	ND		0.20	0.058	ppb v/v			04/19/25 22:59	1
Cumene	ND		0.20	0.072	ppb v/v			04/19/25 22:59	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			04/19/25 22:59	1
n-Propylbenzene	ND		0.20	0.062	ppb v/v			04/19/25 22:59	1
4-Ethyltoluene	ND		0.20	0.068	ppb v/v			04/19/25 22:59	1
1,3,5-Trimethylbenzene	ND		0.20	0.068	ppb v/v			04/19/25 22:59	1
2-Chlorotoluene	ND		0.20	0.058	ppb v/v			04/19/25 22:59	1
tert-Butylbenzene	ND		0.20	0.070	ppb v/v			04/19/25 22:59	1
1,2,4-Trimethylbenzene	ND		0.20	0.082	ppb v/v			04/19/25 22:59	1
sec-Butylbenzene	ND		0.20	0.072	ppb v/v			04/19/25 22:59	1
4-Isopropyltoluene	ND		0.20	0.078	ppb v/v			04/19/25 22:59	1
1,3-Dichlorobenzene	ND		0.20	0.063	ppb v/v			04/19/25 22:59	1
1,4-Dichlorobenzene	ND		0.20	0.070	ppb v/v			04/19/25 22:59	1
Benzyl chloride	ND		0.20	0.074	ppb v/v			04/19/25 22:59	1
n-Butylbenzene	ND		0.20	0.070	ppb v/v			04/19/25 22:59	1
1,2-Dichlorobenzene	ND		0.20	0.066	ppb v/v			04/19/25 22:59	1
1,2,4-Trichlorobenzene	ND		0.50	0.30	ppb v/v			04/19/25 22:59	1
Hexachlorobutadiene	ND		0.20	0.078	ppb v/v			04/19/25 22:59	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Client Sample ID: SV-4
Lab Sample ID: 480-228459-3
Date Collected: 04/02/25 14:00
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.38	0.11	ppb v/v			04/19/25 22:59	1

Client Sample ID: SV-5
Lab Sample ID: 480-228459-4
Date Collected: 04/02/25 14:05
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**2.4**	**J**	2.5	1.1	ug/m3			04/19/25 23:51	1
Chlorodifluoromethane	ND		1.8	1.3	ug/m3			04/19/25 23:51	1
1,2-Dichlorotetrafluoroethane	ND		1.4	0.53	ug/m3			04/19/25 23:51	1
Chloromethane	ND		1.0	0.68	ug/m3			04/19/25 23:51	1
n-Butane	**1.1**	**J**	1.2	0.74	ug/m3			04/19/25 23:51	1
Vinyl chloride	ND		0.20	0.074	ug/m3			04/19/25 23:51	1
1,3-Butadiene	ND		0.44	0.088	ug/m3			04/19/25 23:51	1
Bromomethane	ND		0.78	0.24	ug/m3			04/19/25 23:51	1
Chloroethane	ND		1.3	0.42	ug/m3			04/19/25 23:51	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.21	ug/m3			04/19/25 23:51	1
Trichlorofluoromethane	**1.1**		1.1	0.43	ug/m3			04/19/25 23:51	1
1,1,2-Trichlorotrifluoroethane	ND		1.5	0.44	ug/m3			04/19/25 23:51	1
1,1-Dichloroethene	ND		0.20	0.14	ug/m3			04/19/25 23:51	1
Acetone	**13**		12	4.5	ug/m3			04/19/25 23:51	1
Isopropyl alcohol	ND		12	5.4	ug/m3			04/19/25 23:51	1
Carbon disulfide	ND		1.6	0.56	ug/m3			04/19/25 23:51	1
3-Chloropropene	ND		1.6	0.25	ug/m3			04/19/25 23:51	1
Methylene Chloride	ND		1.7	0.66	ug/m3			04/19/25 23:51	1
tert-Butyl alcohol	ND		15	4.9	ug/m3			04/19/25 23:51	1
Methyl tert-butyl ether	ND		0.72	0.24	ug/m3			04/19/25 23:51	1
trans-1,2-Dichloroethene	ND		0.79	0.079	ug/m3			04/19/25 23:51	1
n-Hexane	ND		1.8	0.56	ug/m3			04/19/25 23:51	1
1,1-Dichloroethane	ND		0.81	0.073	ug/m3			04/19/25 23:51	1
Methyl Ethyl Ketone (2-Butanone)	**1.7**		1.5	0.41	ug/m3			04/19/25 23:51	1
cis-1,2-Dichloroethene	ND		0.20	0.13	ug/m3			04/19/25 23:51	1
Chloroform	**0.70**	**J**	0.98	0.29	ug/m3			04/19/25 23:51	1
Tetrahydrofuran	ND		15	5.0	ug/m3			04/19/25 23:51	1
1,1,1-Trichloroethane	ND		1.1	0.40	ug/m3			04/19/25 23:51	1
Cyclohexane	ND		0.69	0.18	ug/m3			04/19/25 23:51	1
Carbon tetrachloride	**0.18**	**J**	0.22	0.15	ug/m3			04/19/25 23:51	1
2,2,4-Trimethylpentane	ND		0.93	0.33	ug/m3			04/19/25 23:51	1
Benzene	**0.18**	**J**	0.64	0.16	ug/m3			04/19/25 23:51	1
1,2-Dichloroethane	ND		0.81	0.30	ug/m3			04/19/25 23:51	1
n-Heptane	ND		0.82	0.35	ug/m3			04/19/25 23:51	1
Trichloroethene	ND		0.20	0.16	ug/m3			04/19/25 23:51	1
Methyl methacrylate	ND		2.0	0.53	ug/m3			04/19/25 23:51	1
1,2-Dichloropropane	ND		0.92	0.25	ug/m3			04/19/25 23:51	1
1,4-Dioxane	ND		18	0.68	ug/m3			04/19/25 23:51	1
Bromodichloromethane	ND		1.3	0.39	ug/m3			04/19/25 23:51	1
cis-1,3-Dichloropropene	ND		0.91	0.25	ug/m3			04/19/25 23:51	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		2.0	0.78	ug/m3			04/19/25 23:51	1
Toluene	**0.47**	**J**	0.75	0.20	ug/m3			04/19/25 23:51	1
trans-1,3-Dichloropropene	ND		0.91	0.28	ug/m3			04/19/25 23:51	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			04/19/25 23:51	1
Tetrachloroethene	ND		1.4	0.24	ug/m3			04/19/25 23:51	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	0.82	ug/m3			04/19/25 23:51	1
Dibromochloromethane	ND		1.7	0.45	ug/m3			04/19/25 23:51	1
1,2-Dibromoethane	ND		1.5	0.35	ug/m3			04/19/25 23:51	1

Client Sample ID: SV-5
Lab Sample ID: 480-228459-4
Date Collected: 04/02/25 14:05
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.92	0.22	ug/m3			04/19/25 23:51	1
Ethylbenzene	ND		0.87	0.22	ug/m3			04/19/25 23:51	1
m,p-Xylene	**0.35**	**J**	2.2	0.061	ug/m3			04/19/25 23:51	1
o-Xylene	ND		0.87	0.30	ug/m3			04/19/25 23:51	1
Styrene	**0.35**	**J**	0.85	0.24	ug/m3			04/19/25 23:51	1
Bromoform	ND		2.1	0.60	ug/m3			04/19/25 23:51	1
Cumene	ND		0.98	0.35	ug/m3			04/19/25 23:51	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			04/19/25 23:51	1
n-Propylbenzene	ND		0.98	0.30	ug/m3			04/19/25 23:51	1
4-Ethyltoluene	ND		0.98	0.33	ug/m3			04/19/25 23:51	1
1,3,5-Trimethylbenzene	ND		0.98	0.33	ug/m3			04/19/25 23:51	1
2-Chlorotoluene	ND		1.0	0.30	ug/m3			04/19/25 23:51	1
tert-Butylbenzene	ND		1.1	0.38	ug/m3			04/19/25 23:51	1
1,2,4-Trimethylbenzene	**0.42**	**J**	0.98	0.40	ug/m3			04/19/25 23:51	1
sec-Butylbenzene	ND		1.1	0.40	ug/m3			04/19/25 23:51	1
4-Isopropyltoluene	ND		1.1	0.43	ug/m3			04/19/25 23:51	1
1,3-Dichlorobenzene	ND		1.2	0.38	ug/m3			04/19/25 23:51	1
1,4-Dichlorobenzene	ND		1.2	0.42	ug/m3			04/19/25 23:51	1
Benzyl chloride	ND		1.0	0.38	ug/m3			04/19/25 23:51	1
n-Butylbenzene	ND		1.1	0.38	ug/m3			04/19/25 23:51	1
1,2-Dichlorobenzene	ND		1.2	0.40	ug/m3			04/19/25 23:51	1
1,2,4-Trichlorobenzene	ND		3.7	2.2	ug/m3			04/19/25 23:51	1
Hexachlorobutadiene	ND		2.1	0.83	ug/m3			04/19/25 23:51	1
Naphthalene	ND		2.0	0.58	ug/m3			04/19/25 23:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.48**	**J**	0.50	0.22	ppb v/v			04/19/25 23:51	1
Chlorodifluoromethane	ND		0.50	0.36	ppb v/v			04/19/25 23:51	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.076	ppb v/v			04/19/25 23:51	1
Chloromethane	ND		0.50	0.33	ppb v/v			04/19/25 23:51	1
n-Butane	**0.46**	**J**	0.50	0.31	ppb v/v			04/19/25 23:51	1
Vinyl chloride	ND		0.078	0.029	ppb v/v			04/19/25 23:51	1
1,3-Butadiene	ND		0.20	0.040	ppb v/v			04/19/25 23:51	1
Bromomethane	ND		0.20	0.062	ppb v/v			04/19/25 23:51	1
Chloroethane	ND		0.50	0.16	ppb v/v			04/19/25 23:51	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.048	ppb v/v			04/19/25 23:51	1
Trichlorofluoromethane	**0.19**		0.20	0.077	ppb v/v			04/19/25 23:51	1
1,1,2-Trichlorotrifluoroethane	ND		0.20	0.057	ppb v/v			04/19/25 23:51	1
1,1-Dichloroethene	ND		0.050	0.035	ppb v/v			04/19/25 23:51	1
Acetone	**5.4**		5.0	1.9	ppb v/v			04/19/25 23:51	1
Isopropyl alcohol	ND		5.0	2.2	ppb v/v			04/19/25 23:51	1
Carbon disulfide	ND		0.50	0.18	ppb v/v			04/19/25 23:51	1
3-Chloropropene	ND		0.50	0.081	ppb v/v			04/19/25 23:51	1
Methylene Chloride	ND		0.50	0.19	ppb v/v			04/19/25 23:51	1
tert-Butyl alcohol	ND		5.0	1.6	ppb v/v			04/19/25 23:51	1
Methyl tert-butyl ether	ND		0.20	0.066	ppb v/v			04/19/25 23:51	1
trans-1,2-Dichloroethene	ND		0.20	0.020	ppb v/v			04/19/25 23:51	1
n-Hexane	ND		0.50	0.16	ppb v/v			04/19/25 23:51	1
1,1-Dichloroethane	ND		0.20	0.018	ppb v/v			04/19/25 23:51	1

Client Sample ID: SV-5
Lab Sample ID: 480-228459-4
Date Collected: 04/02/25 14:05
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	**0.57**		0.50	0.14	ppb v/v			04/19/25 23:51	1
cis-1,2-Dichloroethene	ND		0.050	0.032	ppb v/v			04/19/25 23:51	1
Chloroform	**0.14**	**J**	0.20	0.059	ppb v/v			04/19/25 23:51	1
Tetrahydrofuran	ND		5.0	1.7	ppb v/v			04/19/25 23:51	1
1,1,1-Trichloroethane	ND		0.20	0.073	ppb v/v			04/19/25 23:51	1
Cyclohexane	ND		0.20	0.052	ppb v/v			04/19/25 23:51	1
Carbon tetrachloride	**0.029**	**J**	0.035	0.024	ppb v/v			04/19/25 23:51	1
2,2,4-Trimethylpentane	ND		0.20	0.071	ppb v/v			04/19/25 23:51	1
Benzene	**0.057**	**J**	0.20	0.051	ppb v/v			04/19/25 23:51	1
1,2-Dichloroethane	ND		0.20	0.074	ppb v/v			04/19/25 23:51	1
n-Heptane	ND		0.20	0.086	ppb v/v			04/19/25 23:51	1
Trichloroethene	ND		0.037	0.029	ppb v/v			04/19/25 23:51	1
Methyl methacrylate	ND		0.50	0.13	ppb v/v			04/19/25 23:51	1
1,2-Dichloropropane	ND		0.20	0.055	ppb v/v			04/19/25 23:51	1
1,4-Dioxane	ND		5.0	0.19	ppb v/v			04/19/25 23:51	1
Bromodichloromethane	ND		0.20	0.058	ppb v/v			04/19/25 23:51	1
cis-1,3-Dichloropropene	ND		0.20	0.056	ppb v/v			04/19/25 23:51	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		0.50	0.19	ppb v/v			04/19/25 23:51	1
Toluene	**0.13**	**J**	0.20	0.054	ppb v/v			04/19/25 23:51	1
trans-1,3-Dichloropropene	ND		0.20	0.062	ppb v/v			04/19/25 23:51	1
1,1,2-Trichloroethane	ND		0.20	0.053	ppb v/v			04/19/25 23:51	1
Tetrachloroethene	ND		0.20	0.036	ppb v/v			04/19/25 23:51	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.20	ppb v/v			04/19/25 23:51	1
Dibromochloromethane	ND		0.20	0.053	ppb v/v			04/19/25 23:51	1
1,2-Dibromoethane	ND		0.20	0.045	ppb v/v			04/19/25 23:51	1
Chlorobenzene	ND		0.20	0.047	ppb v/v			04/19/25 23:51	1
Ethylbenzene	ND		0.20	0.051	ppb v/v			04/19/25 23:51	1
m,p-Xylene	**0.081**	**J**	0.50	0.014	ppb v/v			04/19/25 23:51	1
o-Xylene	ND		0.20	0.069	ppb v/v			04/19/25 23:51	1
Styrene	**0.083**	**J**	0.20	0.056	ppb v/v			04/19/25 23:51	1
Bromoform	ND		0.20	0.058	ppb v/v			04/19/25 23:51	1
Cumene	ND		0.20	0.072	ppb v/v			04/19/25 23:51	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			04/19/25 23:51	1
n-Propylbenzene	ND		0.20	0.062	ppb v/v			04/19/25 23:51	1
4-Ethyltoluene	ND		0.20	0.068	ppb v/v			04/19/25 23:51	1
1,3,5-Trimethylbenzene	ND		0.20	0.068	ppb v/v			04/19/25 23:51	1
2-Chlorotoluene	ND		0.20	0.058	ppb v/v			04/19/25 23:51	1
tert-Butylbenzene	ND		0.20	0.070	ppb v/v			04/19/25 23:51	1
1,2,4-Trimethylbenzene	**0.086**	**J**	0.20	0.082	ppb v/v			04/19/25 23:51	1
sec-Butylbenzene	ND		0.20	0.072	ppb v/v			04/19/25 23:51	1
4-Isopropyltoluene	ND		0.20	0.078	ppb v/v			04/19/25 23:51	1
1,3-Dichlorobenzene	ND		0.20	0.063	ppb v/v			04/19/25 23:51	1
1,4-Dichlorobenzene	ND		0.20	0.070	ppb v/v			04/19/25 23:51	1
Benzyl chloride	ND		0.20	0.074	ppb v/v			04/19/25 23:51	1
n-Butylbenzene	ND		0.20	0.070	ppb v/v			04/19/25 23:51	1
1,2-Dichlorobenzene	ND		0.20	0.066	ppb v/v			04/19/25 23:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.30	ppb v/v			04/19/25 23:51	1
Hexachlorobutadiene	ND		0.20	0.078	ppb v/v			04/19/25 23:51	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Client Sample ID: SV-5
Lab Sample ID: 480-228459-4
Date Collected: 04/02/25 14:05
Matrix: Air
Date Received: 04/05/25 09:40
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.38	0.11	ppb v/v			04/19/25 23:51	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-215289/5
Matrix: Air
Analysis Batch: 215289

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.5	1.1	ug/m3			04/18/25 12:14	1
Chlorodifluoromethane	ND		1.8	1.3	ug/m3			04/18/25 12:14	1
1,2-Dichlorotetrafluoroethane	ND		1.4	0.53	ug/m3			04/18/25 12:14	1
Chloromethane	ND		1.0	0.68	ug/m3			04/18/25 12:14	1
n-Butane	ND		1.2	0.74	ug/m3			04/18/25 12:14	1
Vinyl chloride	ND		0.20	0.074	ug/m3			04/18/25 12:14	1
1,3-Butadiene	ND		0.44	0.088	ug/m3			04/18/25 12:14	1
Bromomethane	ND		0.78	0.24	ug/m3			04/18/25 12:14	1
Chloroethane	ND		1.3	0.42	ug/m3			04/18/25 12:14	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.21	ug/m3			04/18/25 12:14	1
Trichlorofluoromethane	ND		1.1	0.43	ug/m3			04/18/25 12:14	1
1,1,2-Trichlorotrifluoroethane	ND		1.5	0.44	ug/m3			04/18/25 12:14	1
1,1-Dichloroethene	ND		0.20	0.14	ug/m3			04/18/25 12:14	1
Acetone	ND		12	4.5	ug/m3			04/18/25 12:14	1
Isopropyl alcohol	ND		12	5.4	ug/m3			04/18/25 12:14	1
Carbon disulfide	ND		1.6	0.56	ug/m3			04/18/25 12:14	1
3-Chloropropene	ND		1.6	0.25	ug/m3			04/18/25 12:14	1
Methylene Chloride	ND		1.7	0.66	ug/m3			04/18/25 12:14	1
tert-Butyl alcohol	ND		15	4.9	ug/m3			04/18/25 12:14	1
Methyl tert-butyl ether	ND		0.72	0.24	ug/m3			04/18/25 12:14	1
trans-1,2-Dichloroethene	ND		0.79	0.079	ug/m3			04/18/25 12:14	1
n-Hexane	ND		1.8	0.56	ug/m3			04/18/25 12:14	1
1,1-Dichloroethane	ND		0.81	0.073	ug/m3			04/18/25 12:14	1
Methyl Ethyl Ketone (2-Butanone)	ND		1.5	0.41	ug/m3			04/18/25 12:14	1
cis-1,2-Dichloroethene	ND		0.20	0.13	ug/m3			04/18/25 12:14	1
Chloroform	ND		0.98	0.29	ug/m3			04/18/25 12:14	1
Tetrahydrofuran	ND		15	5.0	ug/m3			04/18/25 12:14	1
1,1,1-Trichloroethane	ND		1.1	0.40	ug/m3			04/18/25 12:14	1
Cyclohexane	ND		0.69	0.18	ug/m3			04/18/25 12:14	1
Carbon tetrachloride	ND		0.22	0.15	ug/m3			04/18/25 12:14	1
2,2,4-Trimethylpentane	ND		0.93	0.33	ug/m3			04/18/25 12:14	1
Benzene	ND		0.64	0.16	ug/m3			04/18/25 12:14	1
1,2-Dichloroethane	ND		0.81	0.30	ug/m3			04/18/25 12:14	1
n-Heptane	ND		0.82	0.35	ug/m3			04/18/25 12:14	1
Trichloroethene	ND		0.20	0.16	ug/m3			04/18/25 12:14	1
Methyl methacrylate	ND		2.0	0.53	ug/m3			04/18/25 12:14	1
1,2-Dichloropropane	ND		0.92	0.25	ug/m3			04/18/25 12:14	1
1,4-Dioxane	ND		18	0.68	ug/m3			04/18/25 12:14	1
Bromodichloromethane	ND		1.3	0.39	ug/m3			04/18/25 12:14	1
cis-1,3-Dichloropropene	ND		0.91	0.25	ug/m3			04/18/25 12:14	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		2.0	0.78	ug/m3			04/18/25 12:14	1
Toluene	ND		0.75	0.20	ug/m3			04/18/25 12:14	1
trans-1,3-Dichloropropene	ND		0.91	0.28	ug/m3			04/18/25 12:14	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			04/18/25 12:14	1
Tetrachloroethene	ND		1.4	0.24	ug/m3			04/18/25 12:14	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	0.82	ug/m3			04/18/25 12:14	1
Dibromochloromethane	ND		1.7	0.45	ug/m3			04/18/25 12:14	1
1,2-Dibromoethane	ND		1.5	0.35	ug/m3			04/18/25 12:14	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215289/5
Matrix: Air
Analysis Batch: 215289

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.92	0.22	ug/m3			04/18/25 12:14	1
Ethylbenzene	ND		0.87	0.22	ug/m3			04/18/25 12:14	1
m,p-Xylene	ND		2.2	0.061	ug/m3			04/18/25 12:14	1
o-Xylene	ND		0.87	0.30	ug/m3			04/18/25 12:14	1
Styrene	ND		0.85	0.24	ug/m3			04/18/25 12:14	1
Bromoform	ND		2.1	0.60	ug/m3			04/18/25 12:14	1
Cumene	ND		0.98	0.35	ug/m3			04/18/25 12:14	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			04/18/25 12:14	1
n-Propylbenzene	ND		0.98	0.30	ug/m3			04/18/25 12:14	1
4-Ethyltoluene	ND		0.98	0.33	ug/m3			04/18/25 12:14	1
1,3,5-Trimethylbenzene	ND		0.98	0.33	ug/m3			04/18/25 12:14	1
2-Chlorotoluene	ND		1.0	0.30	ug/m3			04/18/25 12:14	1
tert-Butylbenzene	ND		1.1	0.38	ug/m3			04/18/25 12:14	1
1,2,4-Trimethylbenzene	ND		0.98	0.40	ug/m3			04/18/25 12:14	1
sec-Butylbenzene	ND		1.1	0.40	ug/m3			04/18/25 12:14	1
4-Isopropyltoluene	ND		1.1	0.43	ug/m3			04/18/25 12:14	1
1,3-Dichlorobenzene	ND		1.2	0.38	ug/m3			04/18/25 12:14	1
1,4-Dichlorobenzene	ND		1.2	0.42	ug/m3			04/18/25 12:14	1
Benzyl chloride	ND		1.0	0.38	ug/m3			04/18/25 12:14	1
n-Butylbenzene	ND		1.1	0.38	ug/m3			04/18/25 12:14	1
1,2-Dichlorobenzene	ND		1.2	0.40	ug/m3			04/18/25 12:14	1
1,2,4-Trichlorobenzene	ND		3.7	2.2	ug/m3			04/18/25 12:14	1
Hexachlorobutadiene	ND		2.1	0.83	ug/m3			04/18/25 12:14	1
Naphthalene	ND		2.0	0.58	ug/m3			04/18/25 12:14	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.22	ppb v/v			04/18/25 12:14	1
Chlorodifluoromethane	ND		0.50	0.36	ppb v/v			04/18/25 12:14	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.076	ppb v/v			04/18/25 12:14	1
Chloromethane	ND		0.50	0.33	ppb v/v			04/18/25 12:14	1
n-Butane	ND		0.50	0.31	ppb v/v			04/18/25 12:14	1
Vinyl chloride	ND		0.078	0.029	ppb v/v			04/18/25 12:14	1
1,3-Butadiene	ND		0.20	0.040	ppb v/v			04/18/25 12:14	1
Bromomethane	ND		0.20	0.062	ppb v/v			04/18/25 12:14	1
Chloroethane	ND		0.50	0.16	ppb v/v			04/18/25 12:14	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.048	ppb v/v			04/18/25 12:14	1
Trichlorofluoromethane	ND		0.20	0.077	ppb v/v			04/18/25 12:14	1
1,1,2-Trichlorotrifluoroethane	ND		0.20	0.057	ppb v/v			04/18/25 12:14	1
1,1-Dichloroethene	ND		0.050	0.035	ppb v/v			04/18/25 12:14	1
Acetone	ND		5.0	1.9	ppb v/v			04/18/25 12:14	1
Isopropyl alcohol	ND		5.0	2.2	ppb v/v			04/18/25 12:14	1
Carbon disulfide	ND		0.50	0.18	ppb v/v			04/18/25 12:14	1
3-Chloropropene	ND		0.50	0.081	ppb v/v			04/18/25 12:14	1
Methylene Chloride	ND		0.50	0.19	ppb v/v			04/18/25 12:14	1
tert-Butyl alcohol	ND		5.0	1.6	ppb v/v			04/18/25 12:14	1
Methyl tert-butyl ether	ND		0.20	0.066	ppb v/v			04/18/25 12:14	1
trans-1,2-Dichloroethene	ND		0.20	0.020	ppb v/v			04/18/25 12:14	1
n-Hexane	ND		0.50	0.16	ppb v/v			04/18/25 12:14	1
1,1-Dichloroethane	ND		0.20	0.018	ppb v/v			04/18/25 12:14	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215289/5
Matrix: Air
Analysis Batch: 215289

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	ND		0.50	0.14	ppb v/v			04/18/25 12:14	1
cis-1,2-Dichloroethene	ND		0.050	0.032	ppb v/v			04/18/25 12:14	1
Chloroform	ND		0.20	0.059	ppb v/v			04/18/25 12:14	1
Tetrahydrofuran	ND		5.0	1.7	ppb v/v			04/18/25 12:14	1
1,1,1-Trichloroethane	ND		0.20	0.073	ppb v/v			04/18/25 12:14	1
Cyclohexane	ND		0.20	0.052	ppb v/v			04/18/25 12:14	1
Carbon tetrachloride	ND		0.035	0.024	ppb v/v			04/18/25 12:14	1
2,2,4-Trimethylpentane	ND		0.20	0.071	ppb v/v			04/18/25 12:14	1
Benzene	ND		0.20	0.051	ppb v/v			04/18/25 12:14	1
1,2-Dichloroethane	ND		0.20	0.074	ppb v/v			04/18/25 12:14	1
n-Heptane	ND		0.20	0.086	ppb v/v			04/18/25 12:14	1
Trichloroethene	ND		0.037	0.029	ppb v/v			04/18/25 12:14	1
Methyl methacrylate	ND		0.50	0.13	ppb v/v			04/18/25 12:14	1
1,2-Dichloropropane	ND		0.20	0.055	ppb v/v			04/18/25 12:14	1
1,4-Dioxane	ND		5.0	0.19	ppb v/v			04/18/25 12:14	1
Bromodichloromethane	ND		0.20	0.058	ppb v/v			04/18/25 12:14	1
cis-1,3-Dichloropropene	ND		0.20	0.056	ppb v/v			04/18/25 12:14	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		0.50	0.19	ppb v/v			04/18/25 12:14	1
Toluene	ND		0.20	0.054	ppb v/v			04/18/25 12:14	1
trans-1,3-Dichloropropene	ND		0.20	0.062	ppb v/v			04/18/25 12:14	1
1,1,2-Trichloroethane	ND		0.20	0.053	ppb v/v			04/18/25 12:14	1
Tetrachloroethene	ND		0.20	0.036	ppb v/v			04/18/25 12:14	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.20	ppb v/v			04/18/25 12:14	1
Dibromochloromethane	ND		0.20	0.053	ppb v/v			04/18/25 12:14	1
1,2-Dibromoethane	ND		0.20	0.045	ppb v/v			04/18/25 12:14	1
Chlorobenzene	ND		0.20	0.047	ppb v/v			04/18/25 12:14	1
Ethylbenzene	ND		0.20	0.051	ppb v/v			04/18/25 12:14	1
m,p-Xylene	ND		0.50	0.014	ppb v/v			04/18/25 12:14	1
o-Xylene	ND		0.20	0.069	ppb v/v			04/18/25 12:14	1
Styrene	ND		0.20	0.056	ppb v/v			04/18/25 12:14	1
Bromoform	ND		0.20	0.058	ppb v/v			04/18/25 12:14	1
Cumene	ND		0.20	0.072	ppb v/v			04/18/25 12:14	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			04/18/25 12:14	1
n-Propylbenzene	ND		0.20	0.062	ppb v/v			04/18/25 12:14	1
4-Ethyltoluene	ND		0.20	0.068	ppb v/v			04/18/25 12:14	1
1,3,5-Trimethylbenzene	ND		0.20	0.068	ppb v/v			04/18/25 12:14	1
2-Chlorotoluene	ND		0.20	0.058	ppb v/v			04/18/25 12:14	1
tert-Butylbenzene	ND		0.20	0.070	ppb v/v			04/18/25 12:14	1
1,2,4-Trimethylbenzene	ND		0.20	0.082	ppb v/v			04/18/25 12:14	1
sec-Butylbenzene	ND		0.20	0.072	ppb v/v			04/18/25 12:14	1
4-Isopropyltoluene	ND		0.20	0.078	ppb v/v			04/18/25 12:14	1
1,3-Dichlorobenzene	ND		0.20	0.063	ppb v/v			04/18/25 12:14	1
1,4-Dichlorobenzene	ND		0.20	0.070	ppb v/v			04/18/25 12:14	1
Benzyl chloride	ND		0.20	0.074	ppb v/v			04/18/25 12:14	1
n-Butylbenzene	ND		0.20	0.070	ppb v/v			04/18/25 12:14	1
1,2-Dichlorobenzene	ND		0.20	0.066	ppb v/v			04/18/25 12:14	1
1,2,4-Trichlorobenzene	ND		0.50	0.30	ppb v/v			04/18/25 12:14	1
Hexachlorobutadiene	ND		0.20	0.078	ppb v/v			04/18/25 12:14	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215289/5
Matrix: Air
Analysis Batch: 215289

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.38	0.11	ppb v/v			04/18/25 12:14	1

Lab Sample ID: LCS 200-215289/3
Matrix: Air
Analysis Batch: 215289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49.4	44.9		ug/m3		91	61 - 142
Chlorodifluoromethane	35.4	33.2		ug/m3		94	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	67.0		ug/m3		96	71 - 141
Chloromethane	20.6	19.6		ug/m3		95	56 - 141
n-Butane	23.8	22.4		ug/m3		94	53 - 151
Vinyl chloride	25.6	24.5		ug/m3		96	61 - 135
1,3-Butadiene	22.1	22.0		ug/m3		100	58 - 139
Bromomethane	38.8	37.4		ug/m3		96	72 - 124
Chloroethane	26.4	25.1		ug/m3		95	68 - 130
Bromoethene(Vinyl Bromide)	43.7	43.3		ug/m3		99	75 - 125
Trichlorofluoromethane	56.2	51.4		ug/m3		92	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	70.5		ug/m3		92	70 - 121
1,1-Dichloroethene	39.6	34.4		ug/m3		87	68 - 120
Acetone	23.7	22.2		ug/m3		93	54 - 154
Isopropyl alcohol	24.6	27.3		ug/m3		111	53 - 142
Carbon disulfide	31.1	28.7		ug/m3		92	71 - 138
3-Chloropropene	31.3	28.4		ug/m3		91	50 - 150
Methylene Chloride	34.7	31.4		ug/m3		90	59 - 137
tert-Butyl alcohol	30.3	27.2		ug/m3		90	66 - 132
Methyl tert-butyl ether	36.0	34.2		ug/m3		95	70 - 127
trans-1,2-Dichloroethene	39.6	38.5		ug/m3		97	69 - 137
n-Hexane	35.2	34.1		ug/m3		97	63 - 138
1,1-Dichloroethane	40.5	38.5		ug/m3		95	66 - 130
Methyl Ethyl Ketone (2-Butanone)	29.5	22.6		ug/m3		77	72 - 124
cis-1,2-Dichloroethene	39.6	37.2		ug/m3		94	72 - 121
Chloroform	48.8	45.8		ug/m3		94	73 - 124
Tetrahydrofuran	29.5	26.9		ug/m3		91	60 - 149
1,1,1-Trichloroethane	54.6	49.2		ug/m3		90	72 - 127
Cyclohexane	34.4	32.1		ug/m3		93	76 - 124
Carbon tetrachloride	62.9	56.6		ug/m3		90	71 - 133
2,2,4-Trimethylpentane	46.7	45.3		ug/m3		97	68 - 131
Benzene	31.9	30.3		ug/m3		95	73 - 119
1,2-Dichloroethane	40.5	37.3		ug/m3		92	68 - 135
n-Heptane	41.0	38.9		ug/m3		95	60 - 142
Trichloroethene	53.7	51.6		ug/m3		96	73 - 122
Methyl methacrylate	40.9	38.8		ug/m3		95	73 - 129
1,2-Dichloropropane	46.2	44.6		ug/m3		97	69 - 128
1,4-Dioxane	36.0	32.5		ug/m3		90	66 - 129
Bromodichloromethane	67.0	62.4		ug/m3		93	75 - 127
cis-1,3-Dichloropropene	45.4	43.2		ug/m3		95	74 - 125

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215289/3
Matrix: Air
Analysis Batch: 215289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41.0	38.9		ug/m3		95	58 - 144
Toluene	37.7	35.9		ug/m3		95	75 - 122
trans-1,3-Dichloropropene	45.4	47.1		ug/m3		104	74 - 128
1,1,2-Trichloroethane	54.6	53.3		ug/m3		98	75 - 126
Tetrachloroethene	67.8	67.3		ug/m3		99	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	40.3		ug/m3		98	57 - 143
Dibromochloromethane	85.2	78.7		ug/m3		92	73 - 125
1,2-Dibromoethane	76.8	73.5		ug/m3		96	78 - 122
Chlorobenzene	46.0	43.7		ug/m3		95	76 - 119
Ethylbenzene	43.4	41.6		ug/m3		96	74 - 122
m,p-Xylene	86.8	83.3		ug/m3		96	76 - 121
o-Xylene	43.4	41.6		ug/m3		96	73 - 123
Styrene	42.6	42.6		ug/m3		100	74 - 125
Bromoform	103	94.1		ug/m3		91	53 - 149
Cumene	49.1	46.6		ug/m3		95	73 - 123
1,1,2,2-Tetrachloroethane	68.6	66.5		ug/m3		97	74 - 126
n-Propylbenzene	49.1	47.5		ug/m3		97	73 - 127
4-Ethyltoluene	49.2	47.6		ug/m3		97	75 - 129
1,3,5-Trimethylbenzene	49.2	47.0		ug/m3		96	72 - 126
2-Chlorotoluene	51.8	49.0		ug/m3		95	74 - 126
tert-Butylbenzene	54.9	50.7		ug/m3		92	71 - 125
1,2,4-Trimethylbenzene	49.2	46.6		ug/m3		95	71 - 129
sec-Butylbenzene	54.9	52.1		ug/m3		95	70 - 128
4-Isopropyltoluene	54.9	51.1		ug/m3		93	68 - 130
1,3-Dichlorobenzene	60.1	56.4		ug/m3		94	69 - 131
1,4-Dichlorobenzene	60.1	57.6		ug/m3		96	67 - 132
Benzyl chloride	51.8	48.7		ug/m3		94	60 - 136
n-Butylbenzene	54.9	52.8		ug/m3		96	65 - 137
1,2-Dichlorobenzene	60.1	56.4		ug/m3		94	68 - 129
1,2,4-Trichlorobenzene	74.2	80.8		ug/m3		109	50 - 150
Hexachlorobutadiene	107	107		ug/m3		100	58 - 130
Naphthalene	52.4	57.8		ug/m3		110	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	9.07		ppb v/v		91	61 - 142
Chlorodifluoromethane	10	9.38		ppb v/v		94	60 - 147
1,2-Dichlorotetrafluoroethane	10	9.59		ppb v/v		96	71 - 141
Chloromethane	10	9.48		ppb v/v		95	56 - 141
n-Butane	10	9.44		ppb v/v		94	53 - 151
Vinyl chloride	10	9.57		ppb v/v		96	61 - 135
1,3-Butadiene	10	9.96		ppb v/v		100	58 - 139
Bromomethane	10	9.64		ppb v/v		96	72 - 124
Chloroethane	10	9.53		ppb v/v		95	68 - 130
Bromoethene(Vinyl Bromide)	10	9.90		ppb v/v		99	75 - 125
Trichlorofluoromethane	10	9.16		ppb v/v		92	70 - 129
1,1,2-Trichlorotrifluoroethane	10	9.20		ppb v/v		92	70 - 121
1,1-Dichloroethene	10	8.68		ppb v/v		87	68 - 120

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215289/3
Matrix: Air
Analysis Batch: 215289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10	9.34		ppb v/v		93	54 - 154
Isopropyl alcohol	10	11.1		ppb v/v		111	53 - 142
Carbon disulfide	10	9.20		ppb v/v		92	71 - 138
3-Chloropropene	10	9.06		ppb v/v		91	50 - 150
Methylene Chloride	10	9.05		ppb v/v		90	59 - 137
tert-Butyl alcohol	10	8.98		ppb v/v		90	66 - 132
Methyl tert-butyl ether	10	9.48		ppb v/v		95	70 - 127
trans-1,2-Dichloroethene	10	9.71		ppb v/v		97	69 - 137
n-Hexane	10	9.68		ppb v/v		97	63 - 138
1,1-Dichloroethane	10	9.51		ppb v/v		95	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	7.66		ppb v/v		77	72 - 124
cis-1,2-Dichloroethene	10	9.38		ppb v/v		94	72 - 121
Chloroform	10	9.37		ppb v/v		94	73 - 124
Tetrahydrofuran	10	9.13		ppb v/v		91	60 - 149
1,1,1-Trichloroethane	10	9.02		ppb v/v		90	72 - 127
Cyclohexane	10	9.33		ppb v/v		93	76 - 124
Carbon tetrachloride	10	8.99		ppb v/v		90	71 - 133
2,2,4-Trimethylpentane	10	9.71		ppb v/v		97	68 - 131
Benzene	10	9.49		ppb v/v		95	73 - 119
1,2-Dichloroethane	10	9.22		ppb v/v		92	68 - 135
n-Heptane	10	9.50		ppb v/v		95	60 - 142
Trichloroethene	10	9.59		ppb v/v		96	73 - 122
Methyl methacrylate	10	9.48		ppb v/v		95	73 - 129
1,2-Dichloropropane	10	9.65		ppb v/v		97	69 - 128
1,4-Dioxane	10	9.02		ppb v/v		90	66 - 129
Bromodichloromethane	10	9.31		ppb v/v		93	75 - 127
cis-1,3-Dichloropropene	10	9.52		ppb v/v		95	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	9.49		ppb v/v		95	58 - 144
Toluene	10	9.53		ppb v/v		95	75 - 122
trans-1,3-Dichloropropene	10	10.4		ppb v/v		104	74 - 128
1,1,2-Trichloroethane	10	9.77		ppb v/v		98	75 - 126
Tetrachloroethene	10	9.92		ppb v/v		99	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	9.83		ppb v/v		98	57 - 143
Dibromochloromethane	10	9.23		ppb v/v		92	73 - 125
1,2-Dibromoethane	10	9.57		ppb v/v		96	78 - 122
Chlorobenzene	10	9.49		ppb v/v		95	76 - 119
Ethylbenzene	10	9.58		ppb v/v		96	74 - 122
m,p-Xylene	20	19.2		ppb v/v		96	76 - 121
o-Xylene	10	9.58		ppb v/v		96	73 - 123
Styrene	10	10.0		ppb v/v		100	74 - 125
Bromoform	10	9.10		ppb v/v		91	53 - 149
Cumene	10	9.48		ppb v/v		95	73 - 123
1,1,2,2-Tetrachloroethane	10	9.69		ppb v/v		97	74 - 126
n-Propylbenzene	10	9.67		ppb v/v		97	73 - 127
4-Ethyltoluene	10	9.69		ppb v/v		97	75 - 129
1,3,5-Trimethylbenzene	10	9.56		ppb v/v		96	72 - 126

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215289/3
Matrix: Air
Analysis Batch: 215289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	10	9.46		ppb v/v		95	74 - 126
tert-Butylbenzene	10	9.24		ppb v/v		92	71 - 125
1,2,4-Trimethylbenzene	10	9.49		ppb v/v		95	71 - 129
sec-Butylbenzene	10	9.50		ppb v/v		95	70 - 128
4-Isopropyltoluene	10	9.31		ppb v/v		93	68 - 130
1,3-Dichlorobenzene	10	9.39		ppb v/v		94	69 - 131
1,4-Dichlorobenzene	10	9.58		ppb v/v		96	67 - 132
Benzyl chloride	10	9.41		ppb v/v		94	60 - 136
n-Butylbenzene	10	9.61		ppb v/v		96	65 - 137
1,2-Dichlorobenzene	10	9.38		ppb v/v		94	68 - 129
1,2,4-Trichlorobenzene	10	10.9		ppb v/v		109	50 - 150
Hexachlorobutadiene	10	10.0		ppb v/v		100	58 - 130
Naphthalene	10	11.0		ppb v/v		110	50 - 150

Lab Sample ID: MB 200-215351/5
Matrix: Air
Analysis Batch: 215351

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.5	1.1	ug/m3			04/19/25 12:27	1
Chlorodifluoromethane	ND		1.8	1.3	ug/m3			04/19/25 12:27	1
1,2-Dichlorotetrafluoroethane	ND		1.4	0.53	ug/m3			04/19/25 12:27	1
Chloromethane	ND		1.0	0.68	ug/m3			04/19/25 12:27	1
n-Butane	ND		1.2	0.74	ug/m3			04/19/25 12:27	1
Vinyl chloride	ND		0.20	0.074	ug/m3			04/19/25 12:27	1
1,3-Butadiene	ND		0.44	0.088	ug/m3			04/19/25 12:27	1
Bromomethane	ND		0.78	0.24	ug/m3			04/19/25 12:27	1
Chloroethane	ND		1.3	0.42	ug/m3			04/19/25 12:27	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.21	ug/m3			04/19/25 12:27	1
Trichlorofluoromethane	ND		1.1	0.43	ug/m3			04/19/25 12:27	1
1,1,2-Trichlorotrifluoroethane	ND		1.5	0.44	ug/m3			04/19/25 12:27	1
1,1-Dichloroethene	ND		0.20	0.14	ug/m3			04/19/25 12:27	1
Acetone	ND		12	4.5	ug/m3			04/19/25 12:27	1
Isopropyl alcohol	ND		12	5.4	ug/m3			04/19/25 12:27	1
Carbon disulfide	ND		1.6	0.56	ug/m3			04/19/25 12:27	1
3-Chloropropene	ND		1.6	0.25	ug/m3			04/19/25 12:27	1
Methylene Chloride	ND		1.7	0.66	ug/m3			04/19/25 12:27	1
tert-Butyl alcohol	ND		15	4.9	ug/m3			04/19/25 12:27	1
Methyl tert-butyl ether	ND		0.72	0.24	ug/m3			04/19/25 12:27	1
trans-1,2-Dichloroethene	ND		0.79	0.079	ug/m3			04/19/25 12:27	1
n-Hexane	ND		1.8	0.56	ug/m3			04/19/25 12:27	1
1,1-Dichloroethane	ND		0.81	0.073	ug/m3			04/19/25 12:27	1
Methyl Ethyl Ketone (2-Butanone)	ND		1.5	0.41	ug/m3			04/19/25 12:27	1
cis-1,2-Dichloroethene	ND		0.20	0.13	ug/m3			04/19/25 12:27	1
Chloroform	ND		0.98	0.29	ug/m3			04/19/25 12:27	1
Tetrahydrofuran	ND		15	5.0	ug/m3			04/19/25 12:27	1
1,1,1-Trichloroethane	ND		1.1	0.40	ug/m3			04/19/25 12:27	1
Cyclohexane	ND		0.69	0.18	ug/m3			04/19/25 12:27	1
Carbon tetrachloride	ND		0.22	0.15	ug/m3			04/19/25 12:27	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215351/5
Matrix: Air
Analysis Batch: 215351

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	ND		0.93	0.33	ug/m3			04/19/25 12:27	1
Benzene	ND		0.64	0.16	ug/m3			04/19/25 12:27	1
1,2-Dichloroethane	ND		0.81	0.30	ug/m3			04/19/25 12:27	1
n-Heptane	ND		0.82	0.35	ug/m3			04/19/25 12:27	1
Trichloroethene	ND		0.20	0.16	ug/m3			04/19/25 12:27	1
Methyl methacrylate	ND		2.0	0.53	ug/m3			04/19/25 12:27	1
1,2-Dichloropropane	ND		0.92	0.25	ug/m3			04/19/25 12:27	1
1,4-Dioxane	ND		18	0.68	ug/m3			04/19/25 12:27	1
Bromodichloromethane	ND		1.3	0.39	ug/m3			04/19/25 12:27	1
cis-1,3-Dichloropropene	ND		0.91	0.25	ug/m3			04/19/25 12:27	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		2.0	0.78	ug/m3			04/19/25 12:27	1
Toluene	ND		0.75	0.20	ug/m3			04/19/25 12:27	1
trans-1,3-Dichloropropene	ND		0.91	0.28	ug/m3			04/19/25 12:27	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			04/19/25 12:27	1
Tetrachloroethene	ND		1.4	0.24	ug/m3			04/19/25 12:27	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	0.82	ug/m3			04/19/25 12:27	1
Dibromochloromethane	ND		1.7	0.45	ug/m3			04/19/25 12:27	1
1,2-Dibromoethane	ND		1.5	0.35	ug/m3			04/19/25 12:27	1
Chlorobenzene	ND		0.92	0.22	ug/m3			04/19/25 12:27	1
Ethylbenzene	ND		0.87	0.22	ug/m3			04/19/25 12:27	1
m,p-Xylene	ND		2.2	0.061	ug/m3			04/19/25 12:27	1
o-Xylene	ND		0.87	0.30	ug/m3			04/19/25 12:27	1
Styrene	ND		0.85	0.24	ug/m3			04/19/25 12:27	1
Bromoform	ND		2.1	0.60	ug/m3			04/19/25 12:27	1
Cumene	ND		0.98	0.35	ug/m3			04/19/25 12:27	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			04/19/25 12:27	1
n-Propylbenzene	ND		0.98	0.30	ug/m3			04/19/25 12:27	1
4-Ethyltoluene	ND		0.98	0.33	ug/m3			04/19/25 12:27	1
1,3,5-Trimethylbenzene	ND		0.98	0.33	ug/m3			04/19/25 12:27	1
2-Chlorotoluene	ND		1.0	0.30	ug/m3			04/19/25 12:27	1
tert-Butylbenzene	ND		1.1	0.38	ug/m3			04/19/25 12:27	1
1,2,4-Trimethylbenzene	ND		0.98	0.40	ug/m3			04/19/25 12:27	1
sec-Butylbenzene	ND		1.1	0.40	ug/m3			04/19/25 12:27	1
4-Isopropyltoluene	ND		1.1	0.43	ug/m3			04/19/25 12:27	1
1,3-Dichlorobenzene	ND		1.2	0.38	ug/m3			04/19/25 12:27	1
1,4-Dichlorobenzene	ND		1.2	0.42	ug/m3			04/19/25 12:27	1
Benzyl chloride	ND		1.0	0.38	ug/m3			04/19/25 12:27	1
n-Butylbenzene	ND		1.1	0.38	ug/m3			04/19/25 12:27	1
1,2-Dichlorobenzene	ND		1.2	0.40	ug/m3			04/19/25 12:27	1
1,2,4-Trichlorobenzene	ND		3.7	2.2	ug/m3			04/19/25 12:27	1
Hexachlorobutadiene	ND		2.1	0.83	ug/m3			04/19/25 12:27	1
Naphthalene	ND		2.0	0.58	ug/m3			04/19/25 12:27	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.22	ppb v/v			04/19/25 12:27	1
Chlorodifluoromethane	ND		0.50	0.36	ppb v/v			04/19/25 12:27	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.076	ppb v/v			04/19/25 12:27	1
Chloromethane	ND		0.50	0.33	ppb v/v			04/19/25 12:27	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215351/5
Matrix: Air
Analysis Batch: 215351

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butane	ND		0.50	0.31	ppb v/v			04/19/25 12:27	1
Vinyl chloride	ND		0.078	0.029	ppb v/v			04/19/25 12:27	1
1,3-Butadiene	ND		0.20	0.040	ppb v/v			04/19/25 12:27	1
Bromomethane	ND		0.20	0.062	ppb v/v			04/19/25 12:27	1
Chloroethane	ND		0.50	0.16	ppb v/v			04/19/25 12:27	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.048	ppb v/v			04/19/25 12:27	1
Trichlorofluoromethane	ND		0.20	0.077	ppb v/v			04/19/25 12:27	1
1,1,2-Trichlorotrifluoroethane	ND		0.20	0.057	ppb v/v			04/19/25 12:27	1
1,1-Dichloroethene	ND		0.050	0.035	ppb v/v			04/19/25 12:27	1
Acetone	ND		5.0	1.9	ppb v/v			04/19/25 12:27	1
Isopropyl alcohol	ND		5.0	2.2	ppb v/v			04/19/25 12:27	1
Carbon disulfide	ND		0.50	0.18	ppb v/v			04/19/25 12:27	1
3-Chloropropene	ND		0.50	0.081	ppb v/v			04/19/25 12:27	1
Methylene Chloride	ND		0.50	0.19	ppb v/v			04/19/25 12:27	1
tert-Butyl alcohol	ND		5.0	1.6	ppb v/v			04/19/25 12:27	1
Methyl tert-butyl ether	ND		0.20	0.066	ppb v/v			04/19/25 12:27	1
trans-1,2-Dichloroethene	ND		0.20	0.020	ppb v/v			04/19/25 12:27	1
n-Hexane	ND		0.50	0.16	ppb v/v			04/19/25 12:27	1
1,1-Dichloroethane	ND		0.20	0.018	ppb v/v			04/19/25 12:27	1
Methyl Ethyl Ketone (2-Butanone)	ND		0.50	0.14	ppb v/v			04/19/25 12:27	1
cis-1,2-Dichloroethene	ND		0.050	0.032	ppb v/v			04/19/25 12:27	1
Chloroform	ND		0.20	0.059	ppb v/v			04/19/25 12:27	1
Tetrahydrofuran	ND		5.0	1.7	ppb v/v			04/19/25 12:27	1
1,1,1-Trichloroethane	ND		0.20	0.073	ppb v/v			04/19/25 12:27	1
Cyclohexane	ND		0.20	0.052	ppb v/v			04/19/25 12:27	1
Carbon tetrachloride	ND		0.035	0.024	ppb v/v			04/19/25 12:27	1
2,2,4-Trimethylpentane	ND		0.20	0.071	ppb v/v			04/19/25 12:27	1
Benzene	ND		0.20	0.051	ppb v/v			04/19/25 12:27	1
1,2-Dichloroethane	ND		0.20	0.074	ppb v/v			04/19/25 12:27	1
n-Heptane	ND		0.20	0.086	ppb v/v			04/19/25 12:27	1
Trichloroethene	ND		0.037	0.029	ppb v/v			04/19/25 12:27	1
Methyl methacrylate	ND		0.50	0.13	ppb v/v			04/19/25 12:27	1
1,2-Dichloropropane	ND		0.20	0.055	ppb v/v			04/19/25 12:27	1
1,4-Dioxane	ND		5.0	0.19	ppb v/v			04/19/25 12:27	1
Bromodichloromethane	ND		0.20	0.058	ppb v/v			04/19/25 12:27	1
cis-1,3-Dichloropropene	ND		0.20	0.056	ppb v/v			04/19/25 12:27	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		0.50	0.19	ppb v/v			04/19/25 12:27	1
Toluene	ND		0.20	0.054	ppb v/v			04/19/25 12:27	1
trans-1,3-Dichloropropene	ND		0.20	0.062	ppb v/v			04/19/25 12:27	1
1,1,2-Trichloroethane	ND		0.20	0.053	ppb v/v			04/19/25 12:27	1
Tetrachloroethene	ND		0.20	0.036	ppb v/v			04/19/25 12:27	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.20	ppb v/v			04/19/25 12:27	1
Dibromochloromethane	ND		0.20	0.053	ppb v/v			04/19/25 12:27	1
1,2-Dibromoethane	ND		0.20	0.045	ppb v/v			04/19/25 12:27	1
Chlorobenzene	ND		0.20	0.047	ppb v/v			04/19/25 12:27	1
Ethylbenzene	ND		0.20	0.051	ppb v/v			04/19/25 12:27	1
m,p-Xylene	ND		0.50	0.014	ppb v/v			04/19/25 12:27	1
o-Xylene	ND		0.20	0.069	ppb v/v			04/19/25 12:27	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215351/5
Matrix: Air
Analysis Batch: 215351

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.20	0.056	ppb v/v			04/19/25 12:27	1
Bromoform	ND		0.20	0.058	ppb v/v			04/19/25 12:27	1
Cumene	ND		0.20	0.072	ppb v/v			04/19/25 12:27	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			04/19/25 12:27	1
n-Propylbenzene	ND		0.20	0.062	ppb v/v			04/19/25 12:27	1
4-Ethyltoluene	ND		0.20	0.068	ppb v/v			04/19/25 12:27	1
1,3,5-Trimethylbenzene	ND		0.20	0.068	ppb v/v			04/19/25 12:27	1
2-Chlorotoluene	ND		0.20	0.058	ppb v/v			04/19/25 12:27	1
tert-Butylbenzene	ND		0.20	0.070	ppb v/v			04/19/25 12:27	1
1,2,4-Trimethylbenzene	ND		0.20	0.082	ppb v/v			04/19/25 12:27	1
sec-Butylbenzene	ND		0.20	0.072	ppb v/v			04/19/25 12:27	1
4-Isopropyltoluene	ND		0.20	0.078	ppb v/v			04/19/25 12:27	1
1,3-Dichlorobenzene	ND		0.20	0.063	ppb v/v			04/19/25 12:27	1
1,4-Dichlorobenzene	ND		0.20	0.070	ppb v/v			04/19/25 12:27	1
Benzyl chloride	ND		0.20	0.074	ppb v/v			04/19/25 12:27	1
n-Butylbenzene	ND		0.20	0.070	ppb v/v			04/19/25 12:27	1
1,2-Dichlorobenzene	ND		0.20	0.066	ppb v/v			04/19/25 12:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.30	ppb v/v			04/19/25 12:27	1
Hexachlorobutadiene	ND		0.20	0.078	ppb v/v			04/19/25 12:27	1
Naphthalene	ND		0.38	0.11	ppb v/v			04/19/25 12:27	1

Lab Sample ID: LCS 200-215351/3
Matrix: Air
Analysis Batch: 215351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49.4	47.3		ug/m3		96	61 - 142
Chlorodifluoromethane	35.4	34.2		ug/m3		97	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	67.6		ug/m3		97	71 - 141
Chloromethane	20.6	19.2		ug/m3		93	56 - 141
n-Butane	23.8	22.8		ug/m3		96	53 - 151
Vinyl chloride	25.6	24.4		ug/m3		96	61 - 135
1,3-Butadiene	22.1	22.1		ug/m3		100	58 - 139
Bromomethane	38.8	37.3		ug/m3		96	72 - 124
Chloroethane	26.4	25.0		ug/m3		95	68 - 130
Bromoethene(Vinyl Bromide)	43.7	43.3		ug/m3		99	75 - 125
Trichlorofluoromethane	56.2	54.6		ug/m3		97	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	71.1		ug/m3		93	70 - 121
1,1-Dichloroethene	39.6	34.1		ug/m3		86	68 - 120
Acetone	23.7	22.9		ug/m3		96	54 - 154
Isopropyl alcohol	24.6	27.1		ug/m3		110	53 - 142
Carbon disulfide	31.1	28.5		ug/m3		92	71 - 138
3-Chloropropene	31.3	28.3		ug/m3		90	50 - 150
Methylene Chloride	34.7	31.5		ug/m3		91	59 - 137
tert-Butyl alcohol	30.3	27.5		ug/m3		91	66 - 132
Methyl tert-butyl ether	36.0	34.9		ug/m3		97	70 - 127
trans-1,2-Dichloroethene	39.6	38.9		ug/m3		98	69 - 137
n-Hexane	35.2	33.6		ug/m3		95	63 - 138
1,1-Dichloroethane	40.5	38.3		ug/m3		95	66 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215351/3
Matrix: Air
Analysis Batch: 215351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Ethyl Ketone (2-Butanone)	29.5	22.5		ug/m3		76	72 - 124
cis-1,2-Dichloroethene	39.6	36.7		ug/m3		93	72 - 121
Chloroform	48.8	46.8		ug/m3		96	73 - 124
Tetrahydrofuran	29.5	26.5		ug/m3		90	60 - 149
1,1,1-Trichloroethane	54.6	52.3		ug/m3		96	72 - 127
Cyclohexane	34.4	32.2		ug/m3		94	76 - 124
Carbon tetrachloride	62.9	60.8		ug/m3		97	71 - 133
2,2,4-Trimethylpentane	46.7	44.9		ug/m3		96	68 - 131
Benzene	31.9	30.5		ug/m3		95	73 - 119
1,2-Dichloroethane	40.5	39.1		ug/m3		97	68 - 135
n-Heptane	41.0	38.9		ug/m3		95	60 - 142
Trichloroethene	53.7	52.2		ug/m3		97	73 - 122
Methyl methacrylate	40.9	38.5		ug/m3		94	73 - 129
1,2-Dichloropropane	46.2	44.3		ug/m3		96	69 - 128
1,4-Dioxane	36.0	32.3		ug/m3		90	66 - 129
Bromodichloromethane	67.0	64.9		ug/m3		97	75 - 127
cis-1,3-Dichloropropene	45.4	43.8		ug/m3		97	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41.0	39.2		ug/m3		96	58 - 144
Toluene	37.7	35.6		ug/m3		95	75 - 122
trans-1,3-Dichloropropene	45.4	48.3		ug/m3		106	74 - 128
1,1,2-Trichloroethane	54.6	52.6		ug/m3		96	75 - 126
Tetrachloroethene	67.8	67.5		ug/m3		100	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	40.0		ug/m3		98	57 - 143
Dibromochloromethane	85.2	80.3		ug/m3		94	73 - 125
1,2-Dibromoethane	76.8	73.4		ug/m3		96	78 - 122
Chlorobenzene	46.0	43.8		ug/m3		95	76 - 119
Ethylbenzene	43.4	41.8		ug/m3		96	74 - 122
m,p-Xylene	86.8	83.2		ug/m3		96	76 - 121
o-Xylene	43.4	41.7		ug/m3		96	73 - 123
Styrene	42.6	42.6		ug/m3		100	74 - 125
Bromoform	103	95.3		ug/m3		92	53 - 149
Cumene	49.1	46.9		ug/m3		95	73 - 123
1,1,2,2-Tetrachloroethane	68.6	65.6		ug/m3		96	74 - 126
n-Propylbenzene	49.1	47.8		ug/m3		97	73 - 127
4-Ethyltoluene	49.2	48.1		ug/m3		98	75 - 129
1,3,5-Trimethylbenzene	49.2	48.0		ug/m3		98	72 - 126
2-Chlorotoluene	51.8	49.9		ug/m3		96	74 - 126
tert-Butylbenzene	54.9	51.2		ug/m3		93	71 - 125
1,2,4-Trimethylbenzene	49.2	47.5		ug/m3		97	71 - 129
sec-Butylbenzene	54.9	52.8		ug/m3		96	70 - 128
4-Isopropyltoluene	54.9	52.0		ug/m3		95	68 - 130
1,3-Dichlorobenzene	60.1	57.6		ug/m3		96	69 - 131
1,4-Dichlorobenzene	60.1	58.4		ug/m3		97	67 - 132
Benzyl chloride	51.8	49.6		ug/m3		96	60 - 136
n-Butylbenzene	54.9	53.8		ug/m3		98	65 - 137
1,2-Dichlorobenzene	60.1	57.2		ug/m3		95	68 - 129

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215351/3
Matrix: Air
Analysis Batch: 215351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	74.2	83.1		ug/m3		112	50 - 150
Hexachlorobutadiene	107	113		ug/m3		106	58 - 130
Naphthalene	52.4	59.6		ug/m3		114	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	9.56		ppb v/v		96	61 - 142
Chlorodifluoromethane	10	9.67		ppb v/v		97	60 - 147
1,2-Dichlorotetrafluoroethane	10	9.67		ppb v/v		97	71 - 141
Chloromethane	10	9.29		ppb v/v		93	56 - 141
n-Butane	10	9.58		ppb v/v		96	53 - 151
Vinyl chloride	10	9.56		ppb v/v		96	61 - 135
1,3-Butadiene	10	9.97		ppb v/v		100	58 - 139
Bromomethane	10	9.61		ppb v/v		96	72 - 124
Chloroethane	10	9.48		ppb v/v		95	68 - 130
Bromoethene(Vinyl Bromide)	10	9.89		ppb v/v		99	75 - 125
Trichlorofluoromethane	10	9.72		ppb v/v		97	70 - 129
1,1,2-Trichlorotrifluoroethane	10	9.28		ppb v/v		93	70 - 121
1,1-Dichloroethene	10	8.59		ppb v/v		86	68 - 120
Acetone	10	9.63		ppb v/v		96	54 - 154
Isopropyl alcohol	10	11.0		ppb v/v		110	53 - 142
Carbon disulfide	10	9.16		ppb v/v		92	71 - 138
3-Chloropropene	10	9.03		ppb v/v		90	50 - 150
Methylene Chloride	10	9.06		ppb v/v		91	59 - 137
tert-Butyl alcohol	10	9.09		ppb v/v		91	66 - 132
Methyl tert-butyl ether	10	9.69		ppb v/v		97	70 - 127
trans-1,2-Dichloroethene	10	9.82		ppb v/v		98	69 - 137
n-Hexane	10	9.54		ppb v/v		95	63 - 138
1,1-Dichloroethane	10	9.47		ppb v/v		95	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	7.63		ppb v/v		76	72 - 124
cis-1,2-Dichloroethene	10	9.26		ppb v/v		93	72 - 121
Chloroform	10	9.58		ppb v/v		96	73 - 124
Tetrahydrofuran	10	8.99		ppb v/v		90	60 - 149
1,1,1-Trichloroethane	10	9.59		ppb v/v		96	72 - 127
Cyclohexane	10	9.36		ppb v/v		94	76 - 124
Carbon tetrachloride	10	9.66		ppb v/v		97	71 - 133
2,2,4-Trimethylpentane	10	9.61		ppb v/v		96	68 - 131
Benzene	10	9.53		ppb v/v		95	73 - 119
1,2-Dichloroethane	10	9.67		ppb v/v		97	68 - 135
n-Heptane	10	9.48		ppb v/v		95	60 - 142
Trichloroethene	10	9.70		ppb v/v		97	73 - 122
Methyl methacrylate	10	9.40		ppb v/v		94	73 - 129
1,2-Dichloropropane	10	9.58		ppb v/v		96	69 - 128
1,4-Dioxane	10	8.96		ppb v/v		90	66 - 129
Bromodichloromethane	10	9.68		ppb v/v		97	75 - 127
cis-1,3-Dichloropropene	10	9.66		ppb v/v		97	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	9.58		ppb v/v		96	58 - 144
Toluene	10	9.46		ppb v/v		95	75 - 122

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215351/3
Matrix: Air
Analysis Batch: 215351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	10	10.6		ppb v/v		106	74 - 128
1,1,2-Trichloroethane	10	9.64		ppb v/v		96	75 - 126
Tetrachloroethene	10	9.95		ppb v/v		100	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	9.77		ppb v/v		98	57 - 143
Dibromochloromethane	10	9.43		ppb v/v		94	73 - 125
1,2-Dibromoethane	10	9.55		ppb v/v		96	78 - 122
Chlorobenzene	10	9.51		ppb v/v		95	76 - 119
Ethylbenzene	10	9.63		ppb v/v		96	74 - 122
m,p-Xylene	20	19.2		ppb v/v		96	76 - 121
o-Xylene	10	9.61		ppb v/v		96	73 - 123
Styrene	10	10.0		ppb v/v		100	74 - 125
Bromoform	10	9.22		ppb v/v		92	53 - 149
Cumene	10	9.54		ppb v/v		95	73 - 123
1,1,2,2-Tetrachloroethane	10	9.56		ppb v/v		96	74 - 126
n-Propylbenzene	10	9.73		ppb v/v		97	73 - 127
4-Ethyltoluene	10	9.78		ppb v/v		98	75 - 129
1,3,5-Trimethylbenzene	10	9.77		ppb v/v		98	72 - 126
2-Chlorotoluene	10	9.63		ppb v/v		96	74 - 126
tert-Butylbenzene	10	9.34		ppb v/v		93	71 - 125
1,2,4-Trimethylbenzene	10	9.67		ppb v/v		97	71 - 129
sec-Butylbenzene	10	9.61		ppb v/v		96	70 - 128
4-Isopropyltoluene	10	9.48		ppb v/v		95	68 - 130
1,3-Dichlorobenzene	10	9.58		ppb v/v		96	69 - 131
1,4-Dichlorobenzene	10	9.71		ppb v/v		97	67 - 132
Benzyl chloride	10	9.58		ppb v/v		96	60 - 136
n-Butylbenzene	10	9.80		ppb v/v		98	65 - 137
1,2-Dichlorobenzene	10	9.52		ppb v/v		95	68 - 129
1,2,4-Trichlorobenzene	10	11.2		ppb v/v		112	50 - 150
Hexachlorobutadiene	10	10.6		ppb v/v		106	58 - 130
Naphthalene	10	11.4		ppb v/v		114	50 - 150

Lab Sample ID: 480-228459-4 DU
Matrix: Air
Analysis Batch: 215351

Client Sample ID: SV-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Dichlorodifluoromethane	2.4	J	2.37	J	ug/m3		0.4	25
Chlorodifluoromethane	ND		ND		ug/m3		NC	25
1,2-Dichlorotetrafluoroethane	ND		ND		ug/m3		NC	25
Chloromethane	ND		ND		ug/m3		NC	25
n-Butane	1.1	J	1.14	J	ug/m3		4	25
Vinyl chloride	ND		ND		ug/m3		NC	25
1,3-Butadiene	ND		ND		ug/m3		NC	25
Bromomethane	ND		ND		ug/m3		NC	25
Chloroethane	ND		ND		ug/m3		NC	25
Bromoethene(Vinyl Bromide)	ND		ND		ug/m3		NC	25
Trichlorofluoromethane	1.1		1.08	J	ug/m3		0.8	25
1,1,2-Trichlorotrifluoroethane	ND		ND		ug/m3		NC	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: 480-228459-4 DU
Matrix: Air
Analysis Batch: 215351

Client Sample ID: SV-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1,1-Dichloroethene	ND		ND		ug/m3		NC	25
Acetone	13		12.8		ug/m3		0.8	25
Isopropyl alcohol	ND		ND		ug/m3		NC	25
Carbon disulfide	ND		ND		ug/m3		NC	25
3-Chloropropene	ND		ND		ug/m3		NC	25
Methylene Chloride	ND		ND		ug/m3		NC	25
tert-Butyl alcohol	ND		ND		ug/m3		NC	25
Methyl tert-butyl ether	ND		ND		ug/m3		NC	25
trans-1,2-Dichloroethene	ND		ND		ug/m3		NC	25
n-Hexane	ND		ND		ug/m3		NC	25
1,1-Dichloroethane	ND		ND		ug/m3		NC	25
Methyl Ethyl Ketone (2-Butanone)	1.7		1.79		ug/m3		5	25
cis-1,2-Dichloroethene	ND		ND		ug/m3		NC	25
Chloroform	0.70	J	0.697	J	ug/m3		0.1	25
Tetrahydrofuran	ND		ND		ug/m3		NC	25
1,1,1-Trichloroethane	ND		ND		ug/m3		NC	25
Cyclohexane	ND		ND		ug/m3		NC	25
Carbon tetrachloride	0.18	J	0.194	J	ug/m3		6	25
2,2,4-Trimethylpentane	ND		ND		ug/m3		NC	25
Benzene	0.18	J	0.185	J	ug/m3		2	25
1,2-Dichloroethane	ND		ND		ug/m3		NC	25
n-Heptane	ND		ND		ug/m3		NC	25
Trichloroethene	ND		ND		ug/m3		NC	25
Methyl methacrylate	ND		ND		ug/m3		NC	25
1,2-Dichloropropane	ND		ND		ug/m3		NC	25
1,4-Dioxane	ND		ND		ug/m3		NC	25
Bromodichloromethane	ND		ND		ug/m3		NC	25
cis-1,3-Dichloropropene	ND		ND		ug/m3		NC	25
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		ND		ug/m3		NC	25
Toluene	0.47	J	0.481	J	ug/m3		2	25
trans-1,3-Dichloropropene	ND		ND		ug/m3		NC	25
1,1,2-Trichloroethane	ND		ND		ug/m3		NC	25
Tetrachloroethene	ND		ND		ug/m3		NC	25
Methyl Butyl Ketone (2-Hexanone)	ND		ND		ug/m3		NC	25
Dibromochloromethane	ND		ND		ug/m3		NC	25
1,2-Dibromoethane	ND		ND		ug/m3		NC	25
Chlorobenzene	ND		ND		ug/m3		NC	25
Ethylbenzene	ND		ND		ug/m3		NC	25
m,p-Xylene	0.35	J	0.325	J	ug/m3		8	25
o-Xylene	ND		ND		ug/m3		NC	25
Styrene	0.35	J	0.347	J	ug/m3		2	25
Bromoform	ND		ND		ug/m3		NC	25
Cumene	ND		ND		ug/m3		NC	25
1,1,2,2-Tetrachloroethane	ND		ND		ug/m3		NC	25
n-Propylbenzene	ND		ND		ug/m3		NC	25
4-Ethyltoluene	ND		ND		ug/m3		NC	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: 480-228459-4 DU
Matrix: Air
Analysis Batch: 215351

Client Sample ID: SV-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,3,5-Trimethylbenzene	ND			ND		ug/m3				NC	25
2-Chlorotoluene	ND			ND		ug/m3				NC	25
tert-Butylbenzene	ND			ND		ug/m3				NC	25
1,2,4-Trimethylbenzene	0.42	J		ND		ug/m3				NC	25
sec-Butylbenzene	ND			ND		ug/m3				NC	25
4-Isopropyltoluene	ND			ND		ug/m3				NC	25
1,3-Dichlorobenzene	ND			ND		ug/m3				NC	25
1,4-Dichlorobenzene	ND			ND		ug/m3				NC	25
Benzyl chloride	ND			ND		ug/m3				NC	25
n-Butylbenzene	ND			ND		ug/m3				NC	25
1,2-Dichlorobenzene	ND			ND		ug/m3				NC	25
1,2,4-Trichlorobenzene	ND			ND		ug/m3				NC	25
Hexachlorobutadiene	ND			ND		ug/m3				NC	25
Naphthalene	ND			ND		ug/m3				NC	25

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Dichlorodifluoromethane	0.48	J		0.478	J	ppb v/v				0.4	25
Chlorodifluoromethane	ND			ND		ppb v/v				NC	25
1,2-Dichlorotetrafluoroethane	ND			ND		ppb v/v				NC	25
Chloromethane	ND			ND		ppb v/v				NC	25
n-Butane	0.46	J		0.480	J	ppb v/v				4	25
Vinyl chloride	ND			ND		ppb v/v				NC	25
1,3-Butadiene	ND			ND		ppb v/v				NC	25
Bromomethane	ND			ND		ppb v/v				NC	25
Chloroethane	ND			ND		ppb v/v				NC	25
Bromoethene(Vinyl Bromide)	ND			ND		ppb v/v				NC	25
Trichlorofluoromethane	0.19			0.192	J	ppb v/v				0.8	25
1,1,2-Trichlorotrifluoroethane	ND			ND		ppb v/v				NC	25
1,1-Dichloroethene	ND			ND		ppb v/v				NC	25
Acetone	5.4			5.40		ppb v/v				0.8	25
Isopropyl alcohol	ND			ND		ppb v/v				NC	25
Carbon disulfide	ND			ND		ppb v/v				NC	25
3-Chloropropene	ND			ND		ppb v/v				NC	25
Methylene Chloride	ND			ND		ppb v/v				NC	25
tert-Butyl alcohol	ND			ND		ppb v/v				NC	25
Methyl tert-butyl ether	ND			ND		ppb v/v				NC	25
trans-1,2-Dichloroethene	ND			ND		ppb v/v				NC	25
n-Hexane	ND			ND		ppb v/v				NC	25
1,1-Dichloroethane	ND			ND		ppb v/v				NC	25
Methyl Ethyl Ketone (2-Butanone)	0.57			0.606		ppb v/v				5	25
cis-1,2-Dichloroethene	ND			ND		ppb v/v				NC	25
Chloroform	0.14	J		0.143	J	ppb v/v				0.1	25
Tetrahydrofuran	ND			ND		ppb v/v				NC	25
1,1,1-Trichloroethane	ND			ND		ppb v/v				NC	25
Cyclohexane	ND			ND		ppb v/v				NC	25
Carbon tetrachloride	0.029	J		0.0309	J	ppb v/v				6	25
2,2,4-Trimethylpentane	ND			ND		ppb v/v				NC	25
Benzene	0.057	J		0.0581	J	ppb v/v				2	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: 480-228459-4 DU
Matrix: Air
Analysis Batch: 215351

Client Sample ID: SV-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1,2-Dichloroethane	ND		ND		ppb v/v		NC	25
n-Heptane	ND		ND		ppb v/v		NC	25
Trichloroethene	ND		ND		ppb v/v		NC	25
Methyl methacrylate	ND		ND		ppb v/v		NC	25
1,2-Dichloropropane	ND		ND		ppb v/v		NC	25
1,4-Dioxane	ND		ND		ppb v/v		NC	25
Bromodichloromethane	ND		ND		ppb v/v		NC	25
cis-1,3-Dichloropropene	ND		ND		ppb v/v		NC	25
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ND		ND		ppb v/v		NC	25
Toluene	0.13	J	0.128	J	ppb v/v		2	25
trans-1,3-Dichloropropene	ND		ND		ppb v/v		NC	25
1,1,2-Trichloroethane	ND		ND		ppb v/v		NC	25
Tetrachloroethene	ND		ND		ppb v/v		NC	25
Methyl Butyl Ketone (2-Hexanone)	ND		ND		ppb v/v		NC	25
Dibromochloromethane	ND		ND		ppb v/v		NC	25
1,2-Dibromoethane	ND		ND		ppb v/v		NC	25
Chlorobenzene	ND		ND		ppb v/v		NC	25
Ethylbenzene	ND		ND		ppb v/v		NC	25
m,p-Xylene	0.081	J	0.0748	J	ppb v/v		8	25
o-Xylene	ND		ND		ppb v/v		NC	25
Styrene	0.083	J	0.0814	J	ppb v/v		2	25
Bromoform	ND		ND		ppb v/v		NC	25
Cumene	ND		ND		ppb v/v		NC	25
1,1,2,2-Tetrachloroethane	ND		ND		ppb v/v		NC	25
n-Propylbenzene	ND		ND		ppb v/v		NC	25
4-Ethyltoluene	ND		ND		ppb v/v		NC	25
1,3,5-Trimethylbenzene	ND		ND		ppb v/v		NC	25
2-Chlorotoluene	ND		ND		ppb v/v		NC	25
tert-Butylbenzene	ND		ND		ppb v/v		NC	25
1,2,4-Trimethylbenzene	0.086	J	ND		ppb v/v		NC	25
sec-Butylbenzene	ND		ND		ppb v/v		NC	25
4-Isopropyltoluene	ND		ND		ppb v/v		NC	25
1,3-Dichlorobenzene	ND		ND		ppb v/v		NC	25
1,4-Dichlorobenzene	ND		ND		ppb v/v		NC	25
Benzyl chloride	ND		ND		ppb v/v		NC	25
n-Butylbenzene	ND		ND		ppb v/v		NC	25
1,2-Dichlorobenzene	ND		ND		ppb v/v		NC	25
1,2,4-Trichlorobenzene	ND		ND		ppb v/v		NC	25
Hexachlorobutadiene	ND		ND		ppb v/v		NC	25
Naphthalene	ND		ND		ppb v/v		NC	25

QC Association Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Air - GC/MS VOA

Analysis Batch: 215289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228459-1	SV-1	Total/NA	Air	TO-15	
480-228459-2	SV-2	Total/NA	Air	TO-15	
MB 200-215289/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-215289/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 215351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228459-3	SV-4	Total/NA	Air	TO-15	
480-228459-4	SV-5	Total/NA	Air	TO-15	
MB 200-215351/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-215351/3	Lab Control Sample	Total/NA	Air	TO-15	
480-228459-4 DU	SV-5	Total/NA	Air	TO-15	

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Client Sample ID: SV-1
Lab Sample ID: 480-228459-1
Date Collected: 04/02/25 15:05
Matrix: Air
Date Received: 04/05/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	215289	K1P	EET BUR	04/18/25 17:32

Client Sample ID: SV-2
Lab Sample ID: 480-228459-2
Date Collected: 04/02/25 15:00
Matrix: Air
Date Received: 04/05/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	215289	K1P	EET BUR	04/18/25 18:29

Client Sample ID: SV-4
Lab Sample ID: 480-228459-3
Date Collected: 04/02/25 14:00
Matrix: Air
Date Received: 04/05/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	215351	A1B	EET BUR	04/19/25 22:59

Client Sample ID: SV-5
Lab Sample ID: 480-228459-4
Date Collected: 04/02/25 14:05
Matrix: Air
Date Received: 04/05/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	215351	A1B	EET BUR	04/19/25 23:51

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-26
Connecticut	State	PH-0751	09-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-19-25
Florida	NELAP	E87467	06-30-25
Minnesota	NELAP	050-999-436	12-31-25
New Hampshire	NELAP	2006	12-18-25
New Jersey	NELAP	VT972	06-30-25
New York	NELAP	10391	03-31-26
Pennsylvania	NELAP	68-00489	04-30-26
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	525-23-353-27750	12-19-26
Virginia	NELAP	460209	12-14-25
Wisconsin	State	399140830	08-31-25

Method Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-228459-1	SV-1	Air	04/02/25 15:05	04/05/25 09:40	Air Canister (6-Liter) #3340
480-228459-2	SV-2	Air	04/02/25 15:00	04/05/25 09:40	Air Canister (6-Liter) #3759
480-228459-3	SV-4	Air	04/02/25 14:00	04/05/25 09:40	Air Canister (6-Liter) #5687
480-228459-4	SV-5	Air	04/02/25 14:05	04/05/25 09:40	Air Canister (6-Liter) #9210

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802 660 1990 fax 802 660 1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

480-228459 Chain of Custody

Test

Client Contact Information	**Client Project Manager:** Brian Mayhue	**Samples Collected By:** Nicole Sorau
Company Name: ROUX	**Phone:** 716-713-3437	COC No: _____ of _____ COCs
Address: 2558 Humboldt Pkwy	**Email:** BMayhue@RouxUSA.com	TALS Project #:
City/State/Zip: Buffalo NY 14216		**For Lab Use Only:** Walk-in Client: / Lab Sampling:
Phone: 716-713-3437	**Site Contact:** Nicole Sorau	
FAX:	**Tel/Fax** 716-713 3437	
Project Name: North Ave Site	**Analysis Turnaround Time**	Job / SDG No
Site/Location: Buffalo NY	Standard (Specific):	(See below for Add'l Items)
P O # 4375.0002.Bav	Rush (Specifiy)	

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SV-1	4/2/25	1000	4/2/25	1505	-29	-19	4514	3346	X														
SV-2	↓	1005	↓	1500	-29	-22	8614	3759	X														
SV-4	↓	1010	↓	1400	-29	-8	4500	5687	X														
SV-5	↓	1015	↓	1405	-29	-8	8711	9210	X														

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:
Ca+B, NYSDEC Q4 vols

Samples Shipped by: Nick Sorau	**Date/Time:** 4/4/25 9:30	**Samples Received by:**	4/4/25 0930
Samples Relinquished by:	**Date / Time:** 4/4/25 10:30	**Received by:** ETABUR	4/5/25 0940
Relinquished by:	**Date / Time:**	**Received by:**	
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**	

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021

4/21/2025


ORIGIN ID:ONHA (716) 329-2570
ROCHESTER SERVICE CENTER
EUROFINS TEST AMERICA
125 WHITE SPRUCE BLVD
SUITE 500
ROCHESTER, NY 14623
UNITED STATES US
SHIP DATE: 04APR25
ACTWGT: 35.00 LB
CAD: 258202577/INET4535
BILL SENDER
TO SAMPLE RECEIVING
EUROFINS BURLINGTON
530 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403
(716) 504-9830
REF: SAMPLES TO BURLINGTON (ROUX)
INV:
PO:
DEPT:
FedEx Express
SATURDAY 12:00
PRIORITY OVERNIGHT
TRK# 0201 8803 1085 9930
X0 BTVA
VT-US BTV
Part # 156297-435 RRDB2 EXP 03/25

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-228459-1

Login Number: 228459
List Number: 1
Creator: Reynolds, Jamie K

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	NA: Lab does not accept radioactive samples
The cooler's custody seal, if present, is intact.	N/A	No: Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	No: Thermal preservation not required
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	No: Thermal preservation not required
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10		3/18/2025	1248	23	23	SML	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	4467	0	0	0	29.3	GA01	3/19/25	1750	KS	22.0	GA01	3/22/25	0936	—	21.0
2	5466	0	0	0		GA01					GA01				
3	34002158	—	.14	.14	—	GA01	—	—	—	—	GA01	—	—	—	—
4	34000463	0	0	0	29.8	GA01	3/22/25	0936	—	21.0	GA01	3/27/25	1156	—	21.0
5	34001274	0	0	0	29.3	GA01	3/19/25	1250	KS	22.0	GA01	3/22/25	0936	—	21.0
6	5687		0	0		GA01					GA01				
7	5026		0	0		GA01					GA01				
8	3340		0	0		GA01					GA01				
9	34000784		0	0		GA01					GA01				
10	3282		0	0		GA01					GA01				
11	3759		.10	.10		GA01					GA01				
12	9210	—	0	0	—	GA01	—	—	—	—	GA01	—	—	—	—

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure. Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
34000463	3/21/25	64372	VTP		XXXXXX				3/21/25	JDB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-77354-A-4
34000463
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 3/18/2025 12:00 AM 200-198447
Loc: 200
77354
#4 A
Air-Storag

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-77354-1

SDG No.:

Client Sample ID: 34000463 Lab Sample ID: 200-77354-4

Matrix: Air Lab File ID: 64372_007.D

Analysis Method: TO-15 Date Collected: 03/18/2025 00:00

Sample wt/vol: 800(mL) Date Analyzed: 03/21/2025 12:34

Soil Aliquot Vol: Dilution Factor: 0.25

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 214457 Units: ppb v/v

Preparation Batch No.: Instrument ID: CHAN.i

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.050	U	0.050	0.013
100-42-5	Styrene	0.050	U	0.050	0.014
10061-01-5	1,3-Dichloropropene, cis-	0.050	U	0.050	0.014
10061-02-6	1,3-Dichloropropene, trans-	0.050	U	0.050	0.016
106-46-7	1,4-Dichlorobenzene	0.050	U	0.050	0.018
106-93-4	1,2-Dibromoethane	0.050	U	0.050	0.011
106-99-0	1,3-Butadiene	0.050	U	0.050	0.010
107-05-1	Allyl chloride	0.13	U	0.13	0.020
107-06-2	1,2-Dichloroethane	0.050	U	0.050	0.019
108-10-1	Methyl isobutyl ketone (MIBK)	0.13	U	0.13	0.048
108-67-8	1,3,5-Trimethylbenzene	0.050	U	0.050	0.017
108-88-3	Toluene	0.050	U	0.050	0.014
108-90-7	Chlorobenzene	0.050	U	0.050	0.012
109-99-9	Tetrahydrofuran	1.3	U	1.3	0.43
110-54-3	Hexane	0.13	U	0.13	0.040
110-82-7	Cyclohexane	0.050	U	0.050	0.013
120-82-1	1,2,4-Trichlorobenzene	0.13	U	0.13	0.075
123-91-1	1,4-Dioxane	0.050	U	0.050	0.048
124-48-1	Dibromochloromethane	0.050	U	0.050	0.013
127-18-4	Tetrachloroethene	0.050	U	0.050	0.0090
142-82-5	n-Heptane	0.050	U	0.050	0.022
156-59-2	1,2-Dichloroethene, cis-	0.035	U	0.035	0.0080
156-60-5	1,2-Dichloroethene, trans-	0.050	U	0.050	0.0050
1634-04-4	Methyl tert-butyl ether	0.050	U	0.050	0.017
179601-23-1	m,p-Xylene	0.13	U	0.13	0.0035
540-84-1	2,2,4-Trimethylpentane	0.050	U	0.050	0.018
541-73-1	1,3-Dichlorobenzene	0.050	U	0.050	0.016
56-23-5	Carbon tetrachloride	0.035	U	0.035	0.0060
593-60-2	Vinyl bromide	0.050	U	0.050	0.012
622-96-8	4-Ethyltoluene	0.050	U	0.050	0.017
64-17-5	Ethanol	1.3	U	1.3	0.63
67-63-0	Isopropanol	1.3	U	1.3	0.55

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-77354-1

SDG No.:

Client Sample ID: 34000463 Lab Sample ID: 200-77354-4

Matrix: Air Lab File ID: 64372_007.D

Analysis Method: TO-15 Date Collected: 03/18/2025 00:00

Sample wt/vol: 800(mL) Date Analyzed: 03/21/2025 12:34

Soil Aliquot Vol: Dilution Factor: 0.25

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 214457 Units: ppb v/v

Preparation Batch No.: Instrument ID: CHAN.i

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.3	U	1.3	0.48
67-66-3	Chloroform	0.050	U	0.050	0.015
71-43-2	Benzene	0.050	U	0.050	0.013
71-55-6	1,1,1-Trichloroethane	0.050	U	0.050	0.018
74-83-9	Bromomethane	0.050	U	0.050	0.016
74-87-3	Chloromethane	0.13	U	0.13	0.083
75-00-3	Chloroethane	0.13	U	0.13	0.040
75-01-4	Vinyl chloride	0.035	U	0.035	0.0073
75-09-2	Methylene Chloride	0.13	U	0.13	0.048
75-15-0	Carbon disulfide	0.13	U	0.13	0.045
75-25-2	Bromoform	0.050	U	0.050	0.015
75-27-4	Bromodichloromethane	0.050	U	0.050	0.015
75-34-3	1,1-Dichloroethane	0.050	U	0.050	0.0045
75-35-4	1,1-Dichloroethene	0.035	U	0.035	0.0088
75-65-0	tert-Butyl alcohol	1.3	U	1.3	0.40
75-69-4	Trichlorofluoromethane	0.050	U	0.050	0.019
75-71-8	Dichlorodifluoromethane	0.13	U	0.13	0.055
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.050	U	0.050	0.014
76-14-2	1,2-Dichlorotetrafluoroethane	0.050	U	0.050	0.019
78-87-5	1,2-Dichloropropane	0.050	U	0.050	0.014
78-93-3	Methyl ethyl ketone (MEK)	0.13	U	0.13	0.035
79-00-5	1,1,2-Trichloroethane	0.050	U	0.050	0.013
79-01-6	Trichloroethene	0.035	U	0.035	0.0073
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	0.050	0.015
80-62-6	Methyl methacrylate	0.13	U	0.13	0.033
87-68-3	Hexachlorobutadiene	0.050	U	0.050	0.020
91-20-3	Naphthalene	0.13	U	0.13	0.028
95-47-6	Xylene, o-	0.050	U	0.050	0.017
95-49-8	2-Chlorotoluene	0.050	U	0.050	0.015
95-50-1	1,2-Dichlorobenzene	0.050	U	0.050	0.017
95-63-6	1,2,4-Trimethylbenzene	0.050	U	0.050	0.021
591-78-6	2-Hexanone	0.13	U	0.13	0.050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-77354-1

SDG No.:

Client Sample ID: 34000463 Lab Sample ID: 200-77354-4

Matrix: Air Lab File ID: 64372_007.D

Analysis Method: TO-15 Date Collected: 03/18/2025 00:00

Sample wt/vol: 800(mL) Date Analyzed: 03/21/2025 12:34

Soil Aliquot Vol: Dilution Factor: 0.25

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 214457 Units: ppb v/v

Preparation Batch No.: Instrument ID: CHAN.i

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
115-07-1	Propene	1.3	U	1.3	1.2
75-45-6	Chlorodifluoromethane	0.13	U	0.13	0.090
106-97-8	Butane	0.13	U	0.13	0.078
108-05-4	Vinyl acetate	1.3	U	1.3	0.53
141-78-6	Ethyl acetate	1.3	U	1.3	0.33
98-82-8	Isopropylbenzene	0.050	U	0.050	0.018
103-65-1	N-Propylbenzene	0.050	U	0.050	0.016
98-06-6	tert-Butylbenzene	0.050	U	0.050	0.018
135-98-8	sec-Butylbenzene	0.050	U	0.050	0.018
99-87-6	4-Isopropyltoluene	0.050	U	0.050	0.020
100-44-7	Benzyl chloride	0.050	U	0.050	0.019
104-51-8	n-Butylbenzene	0.050	U	0.050	0.018

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHAN.i\20250321-64372.b\64372_007.D
Lims ID: 200-77354-A-4
Client ID: 34000463
Sample Type: Client
Inject. Date: 21-Mar-2025 12:34:38 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 0.2500
Sample Info: 200-0064372-007
Operator ID: wrd Instrument ID: CHAN.i

Method: \\chromfs\Burlington\ChromData\CHAN.i\20250321-64372.b\TO15_TO3_Master_Method_AN.m
Limit Group: AI_TO15_ICAL
Last Update: 21-Mar-2025 13:41:43 Calib Date: 26-Feb-2025 03:04:44
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHAN.i\20250225-64097.b\64097_015.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1705

First Level Reviewer: BKZ7 Date: 21-Mar-2025 13:41:43

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1	Propene	41		4.348				ND	7
2	Dichlorodifluoromethane	85		4.444				ND	
3	Chlorodifluoromethane	51		4.487				ND	7
4	1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.808				ND	
5	Chloromethane	50		4.926				ND	7
6	Vinyl chloride	62		5.220				ND	
7	Butane	43		5.225				ND	7
8	Butadiene	54		5.338				ND	
9	Bromomethane	94		6.054				ND	
10	Chloroethane	64		6.322				ND	
13	Vinyl bromide	106		6.745				ND	
14	Trichlorofluoromethane	101		6.910				ND	
16	Ethanol	45		7.253				ND	
20	1,1-Dichloroethene	96		7.959				ND	MU
21	1,1,2-Trichloro-1,2,2-trifluoroe	101		8.002				ND	
22	Acetone	43		8.012				ND	
23	Isopropyl alcohol	45		8.301				ND	
24	Carbon disulfide	76		8.365				ND	7
26	3-Chloro-1-propene	41		8.644				ND	
27	Methylene Chloride	49		8.868				ND	7
28	2-Methyl-2-propanol	59		9.061				ND	
30	trans-1,2-Dichloroethene	61		9.377				ND	
31	Methyl tert-butyl ether	73		9.377				ND	7
32	Hexane	57		9.896				ND	
33	1,1-Dichloroethane	63		10.131				ND	
34	Vinyl acetate	43		10.136				ND	
36	2-Butanone (MEK)	72		11.083				ND	
37	cis-1,2-Dichloroethene	96		11.121				ND	7
38	Ethyl acetate	88		11.174				ND	
* 39	Chlorobromomethane	128	11.527	11.527	0.000	80	779540	10.0	
40	Tetrahydrofuran	42		11.570				ND	
41	Chloroform	83		11.698				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	42 1,1,1-Trichloroethane	97		12.019				ND	
	43 Cyclohexane	84		12.169				ND	
	44 Carbon tetrachloride	117		12.303				ND	
	45 Benzene	78		12.640				ND	7
	46 1,2-Dichloroethane	62		12.704				ND	
	47 Isooctane	57		12.875				ND	
	48 n-Heptane	43		13.180				ND	7
*	49 1,4-Difluorobenzene	114	13.367	13.368	-0.001	94	3765944	10.0	
	51 Trichloroethene	95	13.806	13.806	0.000	95	2628	0.0257	
	53 1,2-Dichloropropane	63		14.250				ND	
	54 Methyl methacrylate	69		14.341				ND	
	55 1,4-Dioxane	88		14.373				ND	
	58 Dichlorobromomethane	83		14.710				ND	
	59 cis-1,3-Dichloropropene	75		15.518				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		15.775				ND	
	62 Toluene	92		16.165				ND	7
	66 trans-1,3-Dichloropropene	75		16.567				ND	
	67 1,1,2-Trichloroethane	83		16.936				ND	
	68 Tetrachloroethene	166		17.161				ND	
	69 2-Hexanone	43		17.348				ND	
	70 Chlorodibromomethane	129		17.674				ND	
	71 Ethylene Dibromide	107		17.915				ND	
*	73 Chlorobenzene-d5	117	18.835	18.835	0.000	87	3198562	10.0	
	74 Chlorobenzene	112		18.894				ND	
	75 Ethylbenzene	91		19.092				ND	
	76 m-Xylene & p-Xylene	106		19.349				ND	
	78 o-Xylene	106		20.124				ND	
	79 Styrene	104		20.156				ND	
	81 Bromoform	173		20.488				ND	
	82 Isopropylbenzene	105		20.814				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.312				ND	7
	85 N-Propylbenzene	91		21.526				ND	7
	86 2-Chlorotoluene	91		21.670				ND	
	87 4-Ethyltoluene	105		21.724				ND	
	88 1,3,5-Trimethylbenzene	105		21.820				ND	
	91 tert-Butylbenzene	119		22.296				ND	
	92 1,2,4-Trimethylbenzene	105		22.382				ND	7
	93 sec-Butylbenzene	105		22.623				ND	7
	94 1,3-Dichlorobenzene	146		22.788				ND	7
	95 4-Isopropyltoluene	119		22.837				ND	
	96 1,4-Dichlorobenzene	146		22.928				ND	7
	97 Benzyl chloride	91		23.072				ND	
	98 n-Butylbenzene	91		23.393				ND	7
	99 1,2-Dichlorobenzene	146		23.420				ND	7
	102 1,2,4-Trichlorobenzene	180		25.865				ND	
	103 Hexachlorobutadiene	225		26.116				ND	
	104 Naphthalene	128		26.335				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00012 Amount Added: 20.00 Units: mL Run Reagent

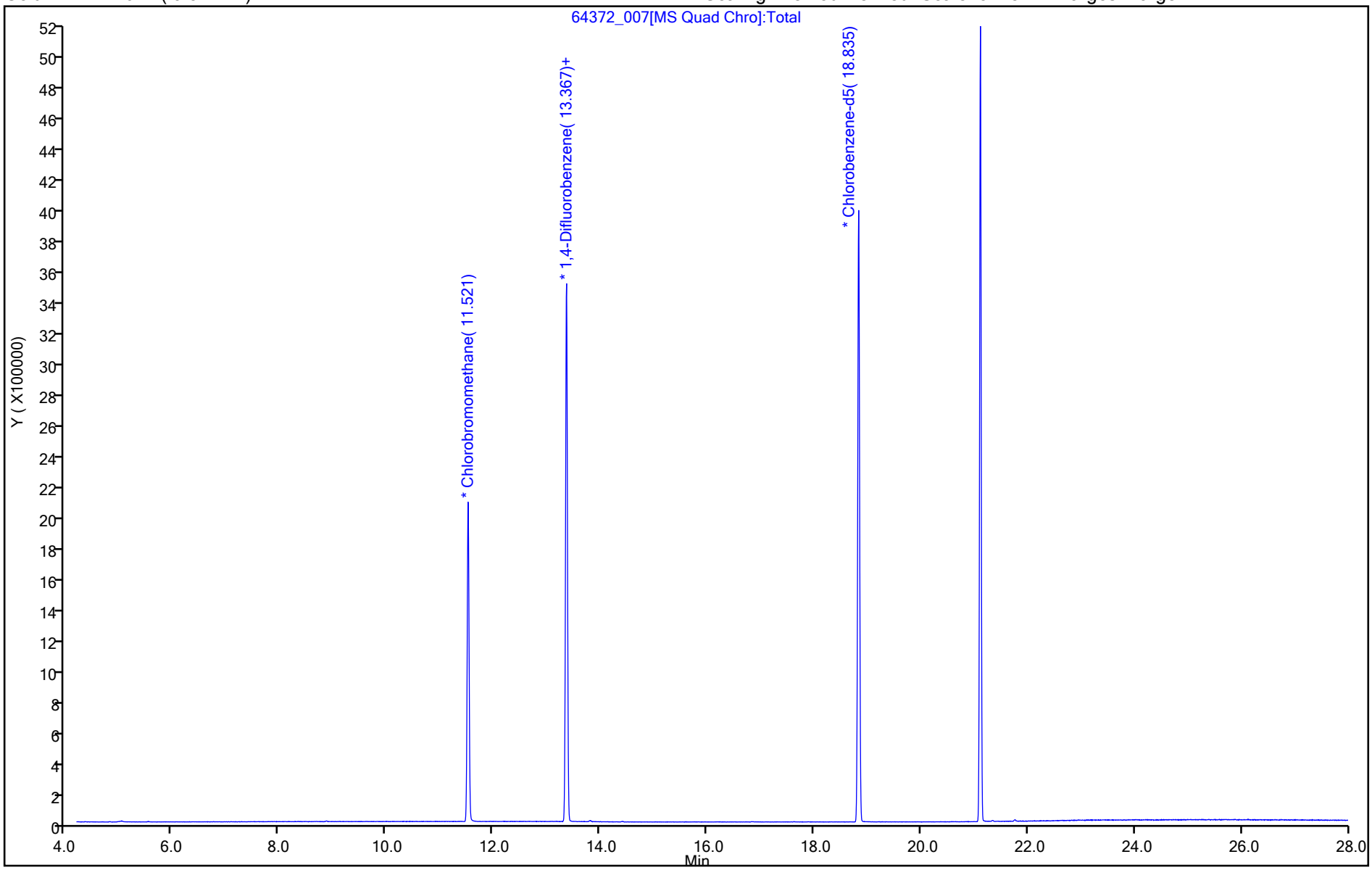
Report Date: 21-Mar-2025 13:41:43 Chrom Revision: 2.3 12-Mar-2025 14:36:02

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHAN.i\20250321-64372.b\64372_007.D

Injection Date:	21-Mar-2025 12:34:38	Instrument ID:	CHAN.i	Operator ID:	wrd
Lims ID:	200-77354-A-4	Lab Sample ID:	200-77354-4	Worklist Smp#:	7
Client ID:	34000463				
Purge Vol:	200.000 mL	Dil. Factor:	0.2500	ALS Bottle#:	7
Method:	TO15_TO3_Master_Method_AN	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



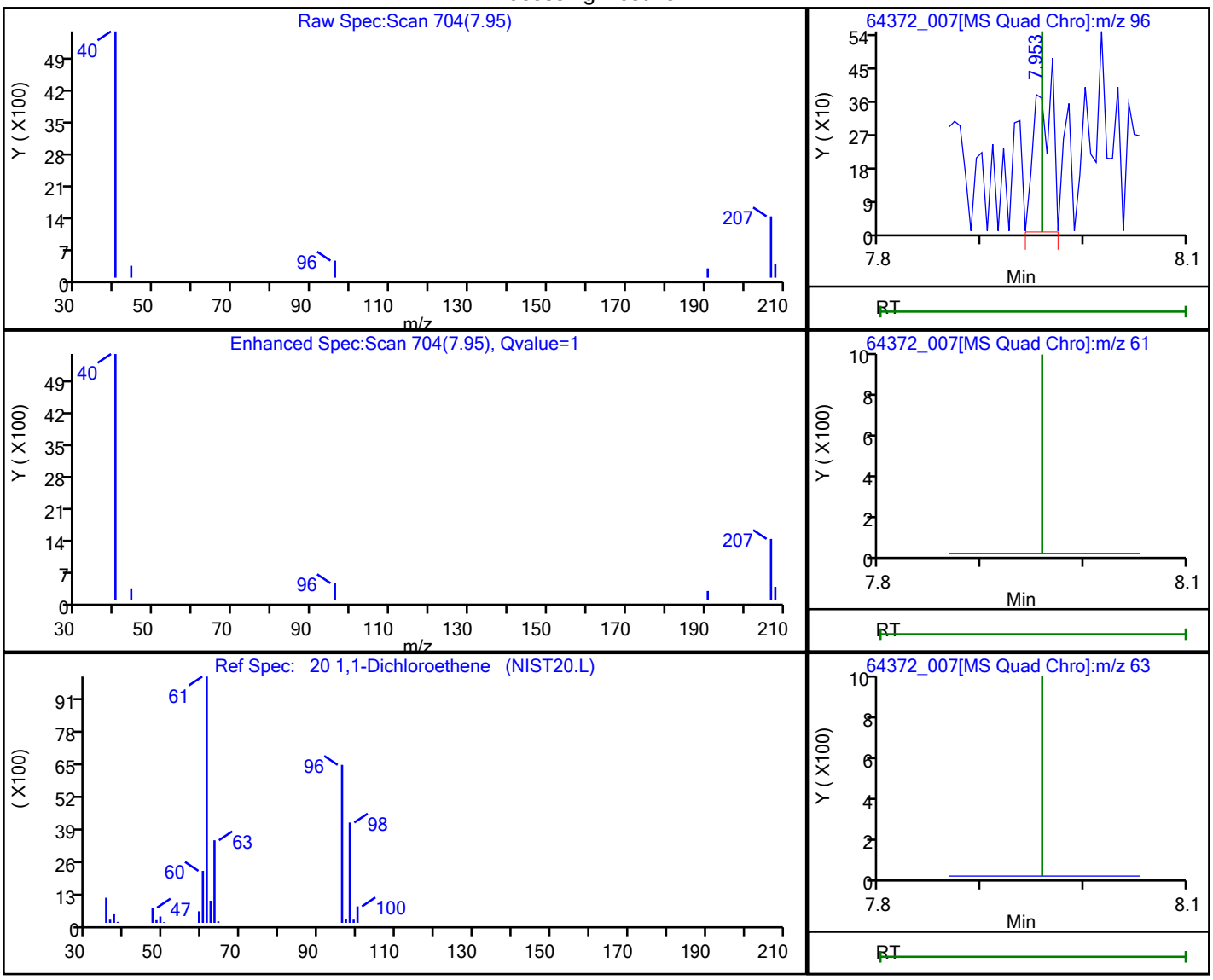
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHAN.i\20250321-64372.b\64372_007.D				
Injection Date:	21-Mar-2025 12:34:38	Instrument ID:	CHAN.i		
Lims ID:	200-77354-A-4	Lab Sample ID:	200-77354-4		
Client ID:	34000463				
Operator ID:	wrd	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	0.2500		
Method:	TO15_TO3_Master_Method_AN	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



RT	Mass	Response	Amount
7.95	96.00	509	0.006554
7.96	61.00	0	
7.96	63.00	0	

Reviewer: BKZ7, 21-Mar-2025 13:41:32 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Summa Canister Dilution Worksheet

Client: Roux Environmental Engineering and Geolo
Project/Site: North Aud Block

Job No.: 480-228459-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initals
480-228459-1	6	-18.3	0.39	2.33	-3.04516	0.79	4.76		2.04	2.04	G16	04/05/25 18:05	CRC
480-228459-2	6	-14.2	0.53	3.15	-3.53631	0.76	4.56		1.45	1.45	G16	04/05/25 18:05	CRC

Formulae:

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg
Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig)* Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

APPENDIX D

Groundwater Field Forms

ROUX

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: North Aud site

Project No.:

Client:

Date: 2/21/25

Instrument Source: ☒ Roux ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	900	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☐ 6223973 ☒	NAS	4.00	4	OK
						7.00	7	
						10.01	10.0	
☒ Turbidity meter	NTU	800	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) ☐ 13120C030432 (Q) ☒ 17110C062619 (Q) ☐	NAS	10 NTU verification	10	OK
						<0.4		
						20	20	
						100	100	
						800	800	
☒ Sp. Cond. meter	uS mS	800	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☐ 6223973 ☐	NAS	1413 mS @ 25 °C	1413	OK
☐ PID	ppm		MinRAE 2000			open air zero		MIBK response factor = 1.0
						____ ppm Iso. Gas		
☒ Dissolved Oxygen	ppm	800	HACH Model HQ30d	171932597009 ☐ 100500041867 ☐ 22293299821 ☒	NAS	100% Satuartion	100	OK
☐ Particulate meter	mg/m³					zero air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: Nikki Sufali **DATE:** 2/21/25

ROUX

GROUNDWATER FIELD FORM

Project Name: Northmud
Location:
Project No.:
Date: 2/21/25
Field Team: ES

Well No. MW-1 | Diameter (inches): 2 | Sample Date / Time: 2/21/25
Product Depth (fbTOR): - | Water Column (ft): 11.22 | DTW when sampled:
DTW (static) (fbTOR): 8.76 | One Well Volume (gal): 1.83 | Purpose: ☒ Development ☐ Sample ☐ Purge & Sample
Total Depth (fbTOR): 19.98/20.13 | Total Volume Purged (gal): 5.75 | Purge Method: Bailer

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
08:15	0	Initial	0	6.66	10	2811	OR	—	256	Turbid, NO odor
08:25	1	8.79	2.5	7.16	10.5	2761	OR	—	232	
08:30	2	8.80	5	7.19	10.6	2717	OR	—	221	
08:35	3	8.86	5.75	7.31	10.1	2416	OR	—	209	
	4									
	5									
	6									
	7									
	8									
	9									
	10									

Sample Information:

	S1									
	S2									

Well No. MW-3 | Diameter (inches): 2 | Sample Date / Time: 2/21/25
Product Depth (fbTOR): - | Water Column (ft): 10.13 | DTW when sampled:
DTW (static) (fbTOR): 9.77 | One Well Volume (gal): 1.65 | Purpose: ☒ Development ☐ Sample ☐ Purge & Sample
Total Depth (fbTOR): 19.9 | Total Volume Purged (gal): 5.25 | Purge Method: Bailer

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0	Initial	0	7.32	9	3773	OR	—	265	Turbid, no odors
11:00	1	10.12	2.5	7.32	10	3253	OR	—	158	
11:25	2	10.06	5.25	7.31	10.5	3305	OR	—	144	
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									

Sample Information:

	S1									
	S2									

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

ROUX

GROUNDWATER FIELD FORM

Project Name: North Aud site Date: 2/21/25

Location: Project No.: Field Team:

Well No. MW-2 | Diameter (inches): 2 in | Sample Date / Time: 2/21/25

Product Depth (fbTOR): | Water Column (ft): 7.7 | DTW when sampled:

DTW (static) (fbTOR): 9.30 | One Well Volume (gal): 1.25 | Purpose: ☒ Development ☐ Sample ☐ Purge & Sample

Total Depth (fbTOR): 17.0 | Total Volume Purged (gal): 5 | Purge Method: Bailer

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0900	0	Initial	0	7.90	10.6	3959	OR	—	131	Turbid no odor
0920	1	9.20	1.5	7.86	11.6	4035	OR	—	130	
930	2	9.30	3	7.91	11.9	3991	OR	—	130	
940	3	9.30	~~4.5~~ 5	7.90	12	3948	OR	—	131	
	4									
	5									
	6									
	7									
	8									
	9									
	10									

Sample Information:

S1	
S2	

Well No. MW-4 | Diameter (inches): 2 11/14 | Sample Date / Time: 2/21/25

Product Depth (fbTOR): | Water Column (ft): | DTW when sampled:

DTW (static) (fbTOR): 9.36 | One Well Volume (gal): 2.2 | Purpose: ☒ Development ☐ Sample ☒ Purge & Sample

Total Depth (fbTOR): 23.30 | Total Volume Purged (gal): 10 | Purge Method: Bailer

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1000	0	Initial	0	7.80	13.5	3892	OR	—	145	Turbid no odor
10:15	1	9.30	2.5	7.78	10	2557	OR	—	141	
10:30	2	9.30	5	7.77	9.8	2216	OR	—	144	
10:45	3	9.32	7.5	7.68	8.8	2330	OR	—	147	
11:00	4	9.36	10	7.64	9.2	2578	OR	—	148	
	5	~~9.30~~								
	6									
	7									
	8									
	9									
	10									

Sample Information:

S1	
S2	

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

ROUX

GROUNDWATER FIELD FORM

Project Name: North Ave site Date: 2/21/25

Location: Project No.: Field Team:

Well No. MW-6 | Diameter (inches): 2 | Sample Date / Time: 2/21/25

Product Depth (fbTOR): - | Water Column (ft): 5.77 | DTW when sampled:

DTW (static) (fbTOR): 14.23 | One Well Volume (gal): 0.94 | Purpose: ☒ Development ☐ Sample ☐ Purge & Sample

Total Depth (fbTOR): 20 | Total Volume Purged (gal): 4 | Purge Method: Bailer

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:00	0	Initial	0	7.31	10.3	1512	-OR	-	104	Turbidity no odor
10:15	1	14.42	1	7.28	10.2	1578	OR	—	144	
10:30	2	14.46	4	7.26	10.1	1567	OR	—	156	
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									

Sample Information:

	S1								
	S2								

Well No. MW-5 | Diameter (inches): 2" | Sample Date / Time: 2/21/25

Product Depth (fbTOR): | Water Column (ft): 9.20 | DTW when sampled:

DTW (static) (fbTOR): 6.10 | One Well Volume (gal): 1.49 | Purpose: ☒ Development ☐ Sample ☐ Purge & Sample

Total Depth (fbTOR): 15.30 | Total Volume Purged (gal): | Purge Method: Bailer

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1100	0	Initial	0	8.30	8.4	1549	OR	—	126	Turbid no odor
1115	1	6.10	1.5	7.97	8.9	1647	OR	—	132	
1130	2	6.10	3	7.99	9.1	1742	OR	—	131	
1145	3	6.10	5	7.78	9.4	1951	OR	—	125	
	4									
	5									
	6									
	7									
	8									
	9									
	10									

Sample Information:

	S1								
	S2								

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

ROUX

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: North Ave Site

Project No.:

Client:

Date: 2/27/25

Instrument Source: ☐ Roux ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	900	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☐ 6223973 ☒	NAS	4.00 7.00 10.01	4 7 10	OK
☒ Turbidity meter	NTU	900	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) ☐ 13120C030432 (Q) ☒ 17110C062619 (Q) ☐	NAS	10 NTU verification <0.4 20 100 800	10 20 100 800	OK
☒ Sp. Cond. meter	uS mS	900	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☐ 6223973 ☒	NAS	1413 mS @ 25 °C	1414	OK
☐ PID	ppm		MinRAE 2000			open air zero ____ ppm Iso. Gas		MIBK response factor = 1.0
☒ Dissolved Oxygen	ppm	900	HACH Model HQ30d	171932597009 ☐ 100500041867 ☐ 22293299821 ☒	NAS	100% Satuartion	100	OK
☐ Particulate meter	mg/m^3					zero air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: Mike Sarah **DATE:** 2/27/25

ROUX

GROUNDWATER FIELD FORM

Project Name: North Aud site
Location: Buffalo NY
Project No.:
Date: 2/27/25
Field Team: NAS, ES

Well No. MW-1
Product Depth (fbTOR):
DTW (static) (fbTOR): 8.35
Total Depth (fbTOR): 20.08

Diameter (inches): 2"
Water Column (ft): 11.73
One Well Volume (gal): 1.91
Total Volume Purged (gal): 8.5

Sample Date / Time: 2/27/25 12:45
DTW when sampled:
Purpose: ☐ Development ☒ Sample ☒ Purge & Sample
Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:20	0	Initial	0	7.10	9.3	2443	OR	1.72	174	Tan
12:30	1	8.40	2	7.12	8.4	2013	510	1.40	176	
12:40	2	8.40	4	7.48	10.8	3077	320	1.23	170	
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
1245	S1	8.40	6	7.51	9.4	2963	178	2.08	174	Clear
1245	S2	8.40	8.5	7.53	9.7	2871	78	2.14	176	

Well No. MW-2
Product Depth (fbTOR):
DTW (static) (fbTOR): 8.80
Total Depth (fbTOR): 16.75

Diameter (inches): 2"
Water Column (ft):
One Well Volume (gal): 1.24
Total Volume Purged (gal): 4

Sample Date / Time: 2/27/25
DTW when sampled:
Purpose: ☐ Development ☒ Sample ☒ Purge & Sample
Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1030	0	Initial	0	7.08	8.3	3494	OR	1.74	180	
1040	1	8.83	1.5	7.09	8.4	3556	344	1.58	170	
1050	2	8.96	3	7.11	9.6	3342	270	1.20	174	
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
1100	S1	9.85	4	7.11	9.5	3397	108	1.34	174	
1105	S2	9.86	4	7.11	9.5	3370	98	1.36	170	

REMARKS: Turbidity Meter having issues
Blind DUP MW-4 MS/MSD MW-2

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: North Ave
Location:
Project No.:
Date: 2/27/25
Field Team: MAI, ES

Well No. MW-3			Diameter (inches): 2			Sample Date / Time: 2/27/25 1245			
Product Depth (fbTOR):			Water Column (ft): 10.82			DTW when sampled: 9.36			
DTW (static) (fbTOR): 9.42			One Well Volume (gal): 1.76			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 20.20			Total Volume Purged (gal): 6			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1340	0 Initial	0	7.77	9.7	3308	OR	0.94	100	Turbid
1345	1 9.35	2	7.74	9.6	3105	500	1.24	85	
1350	2 9.35	4	7.70	10.8	3004	500	1.06	76	Clear
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1400	S1 9.36	6	7.66	10.2	3261	80	0.84	64	
1405	S2 9.36	6	7.67	9.2	3314	43	0.47	93	

Well No. MW-4			Diameter (inches): 2"			Sample Date / Time: 2/27/25 1330			
Product Depth (fbTOR):			Water Column (ft): 15.6			DTW when sampled:			
DTW (static) (fbTOR): 8.80			One Well Volume (gal): 2.5			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 24			Total Volume Purged (gal): 7.5			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1300	0 Initial	0	7.65	10.2	2916	OR	4.48	150	Turbid
1316	1 8.90	2.5	7.55	9.1	2707	OR	4.14	144	Turbid
1320	2 8.90	5	7.74	8.4	2701	200	3.74	150	Clear
1325	3 8.74	7.5	7.63	8.6	3042	160	3.28	144	
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1330	S1 8.78	10	7.62	8.8	2978	180	3.25	148	
1395	S2 8.78	10	7.60	8.8	2970	80	3.25	147	

REMARKS: Blind Dup MW-4
MS/MSD MW-2

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

ROUX

GROUNDWATER FIELD FORM

Project Name: North Ave Date: 2/27/25

Location: Project No.: Field Team: NS, ES

Well No. MW-5			Diameter (inches): 2"			Sample Date / Time: 2/27/25			
Product Depth (fbTOR):			Water Column (ft): 9.47			DTW when sampled:			
DTW (static) (fbTOR): 5.45			One Well Volume (gal): 1.62			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 15.42			Total Volume Purged (gal): 6.5			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1445	0 Initial	0	7.75	5.1	1215	OR	7.41	125	Turb
1450	1 5.45	1.5	7.64	5.6	1185	480	7.18	102	Clear
1500	2 5.57	3	7.66	5.7	1177	101	6.74	74	Clear
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1500	S1 5.57	5	7.61	5.7	11.71	40	7.01	65	
1500	S2 5.58	6.5	7.60	5.7	11.72	34	7.71	75	

Well No. MW-6			Diameter (inches): 2"			Sample Date / Time: 2/27/25			
Product Depth (fbTOR):			Water Column (ft): 6.25			DTW when sampled:			
DTW (static) (fbTOR): 13.95			One Well Volume (gal): 1			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 20.2			Total Volume Purged (gal): 6			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1505	0 Initial	0	7.82	9.5	1609	BR	2.80	109	Turb
1515	1 13.98	2	7.75	9.4	1547	590	2.34	108	Clear
1525	2 13.45	4	7.56	10.1	1610	301	1.57	90	
	3 ~~13.45~~		~~7.57~~						
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1530	S1 13.45	6	7.51	10.2	1592	84	1.10	70	
1535	S2 13.45	6	7.45	10.2	1591	20	1.02	70	

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

APPENDIX E

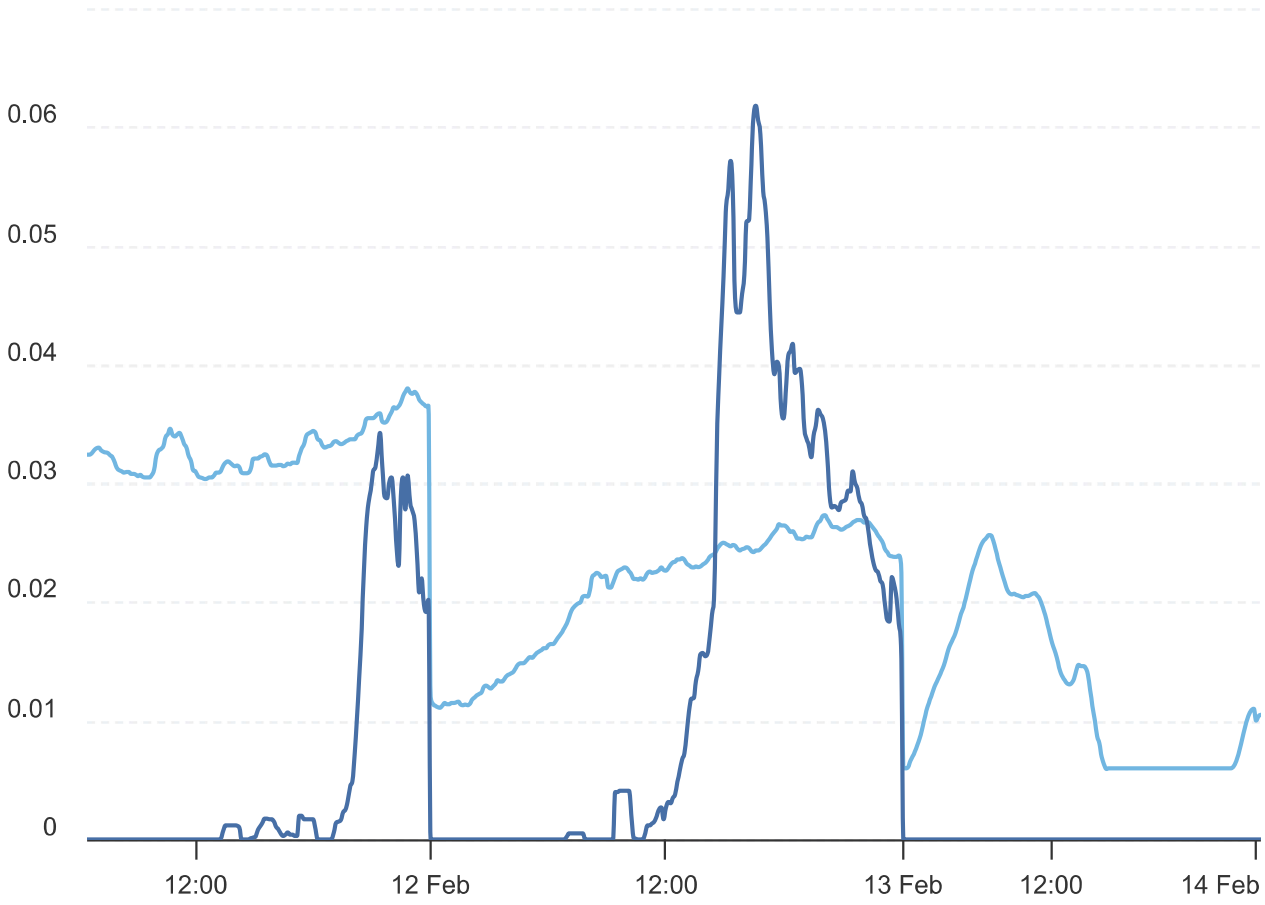
CAMP Summary

Roux #1 (FA05623)

2B230192

02/11/2025 10:25 - 02/18/2025 10:25

(GMT-05:00) Eastern Time (US & Canada)



Avg(Mass Conc. Total, mg/m^3, 15m)

MIN **0.006** AVG **0.022** MAX **0.038**

Avg(VOC, ppm, 15m)

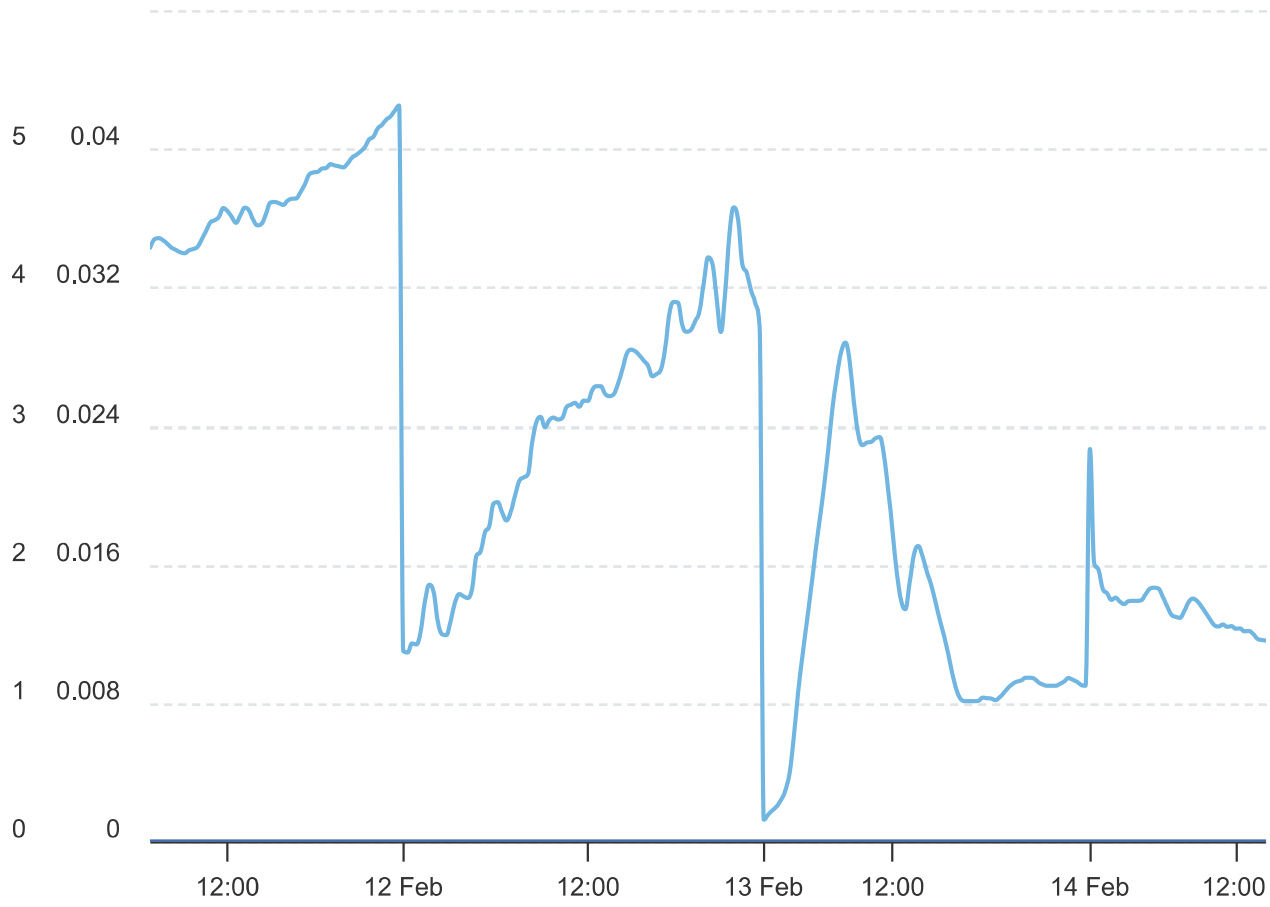
MIN **0** AVG **0.008** MAX **0.062**

Roux #2 (FA05348)

2B018856

02/11/2025 10:29 - 02/18/2025 10:29

(GMT-05:00) Eastern Time (US & Canada)



Avg(Mass Conc. Total, mg/m^3, 15m)

MIN **0.001** AVG **0.022** MAX **0.043**

Avg(VOC, ppm, 15m)

MIN **0** AVG **0** MAX **0**

COMMUNITY AIR MONITORING DAILY LOG

Date: 2/11/2025
Project: North Aud Site
Job No.:
Client: Pennrose

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	A.M.	P.M.
Ambient Air Temp.:	17	30
Wind Direction:	SSW	SSW
Wind Speed:	7 mph	7
Precipitation:	None	None

DESCRIPTION OF SITE ACTIVITIES: Remedial Investigation

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]					
None					
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
None			NA		
			NA		

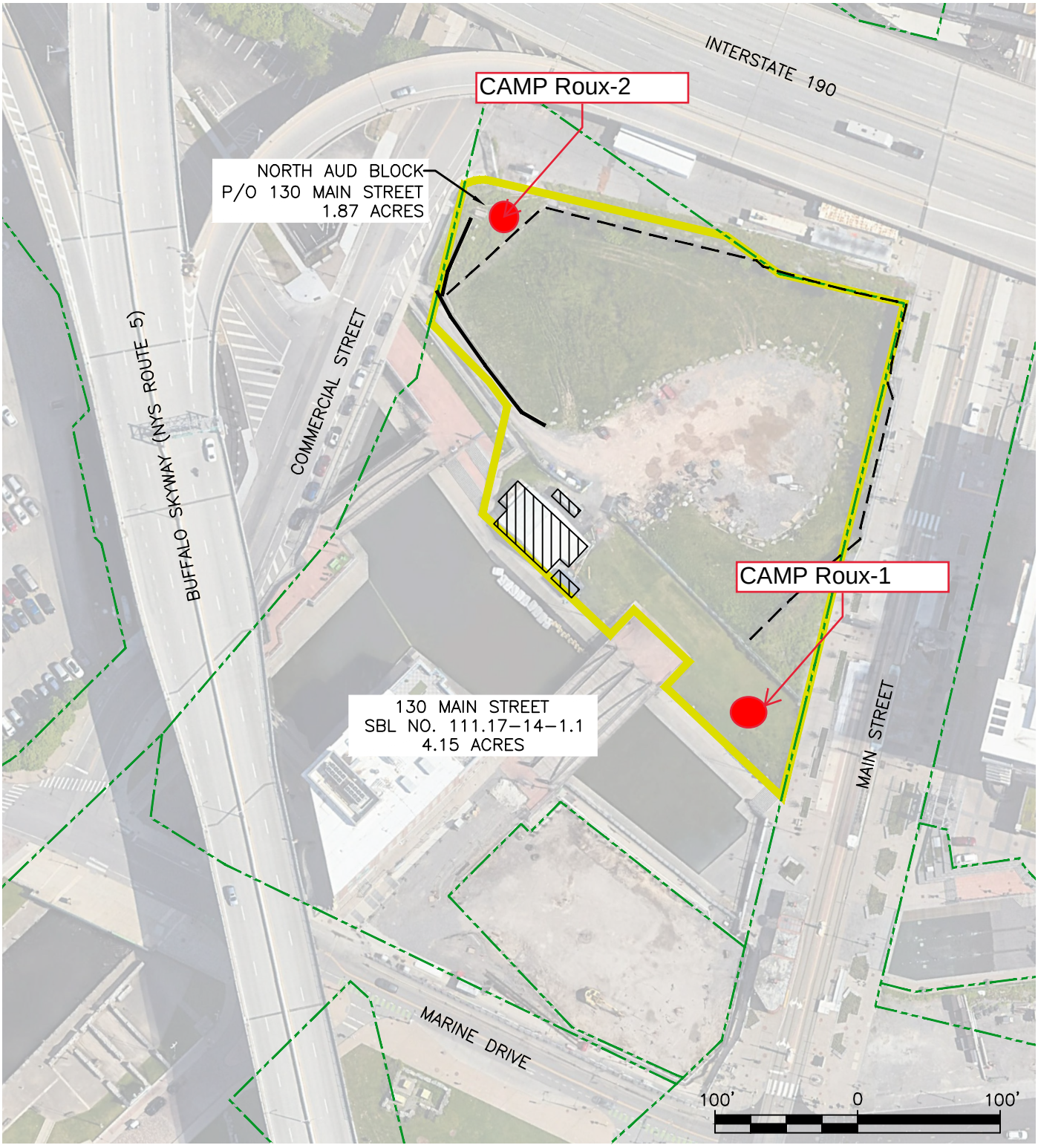
VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]					Temporarily halt Work and continue monitoring
None					
Reading of 5 to 25 ppm [1]					Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]					Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Roux within 15 minutes.

Prepared By: Nicholas Suraci Date: 2/11/2025
Checked By: Date:

2/11/2025



LEGEND

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- WOODEN/SHEET PILE RETAINING WALL
- CONCRETE WALL
- EXISTING STRUCTURES (TO BE REMOVED)

NOTES

1. AERIAL IMAGE SOURCE GOOGLE EARTH 2022.

N

Title:

SITE PLAN (AERIAL)
REMEDIAL INVESTIGATION WORK PLAN
NORTH AUD BLOCK

P/O 130 MAIN STREET
BUFFALO, NEW YORK

Prepared for:
NORTH AUD OWNER LLC

ROUX

Compiled by: CNK	Date: JANUARY 2024
Prepared by: CNK	Scale: AS SHOWN
Project Mgr: BWM	Project: 4375.0001B000
File: FIGURE 2; SITE PLAN (AERIAL).DWG	

FIGURE 2

F:\CAD\0-ROUX\PENNROSE\RIWP\FIGURE 2; SITE PLAN (AERIAL).DWG

COMMUNITY AIR MONITORING DAILY LOG

Date: 2/12/2025

Project: North Aud Site

Job No.:

Client: Pennrose

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	A.M.	P.M.
Ambient Air Temp.:	22	27
Wind Direction:	NE	NE
Wind Speed:	7	17
Precipitation:	None	None

DESCRIPTION OF SITE ACTIVITIES: Remedial Investigation

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]					
None					
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
None			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]					Temporarily halt Work and continue monitoring
None					
Reading of 5 to 25 ppm [1]					Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]					Shut Down Work Immediately and notify Site Safety & Health Officer

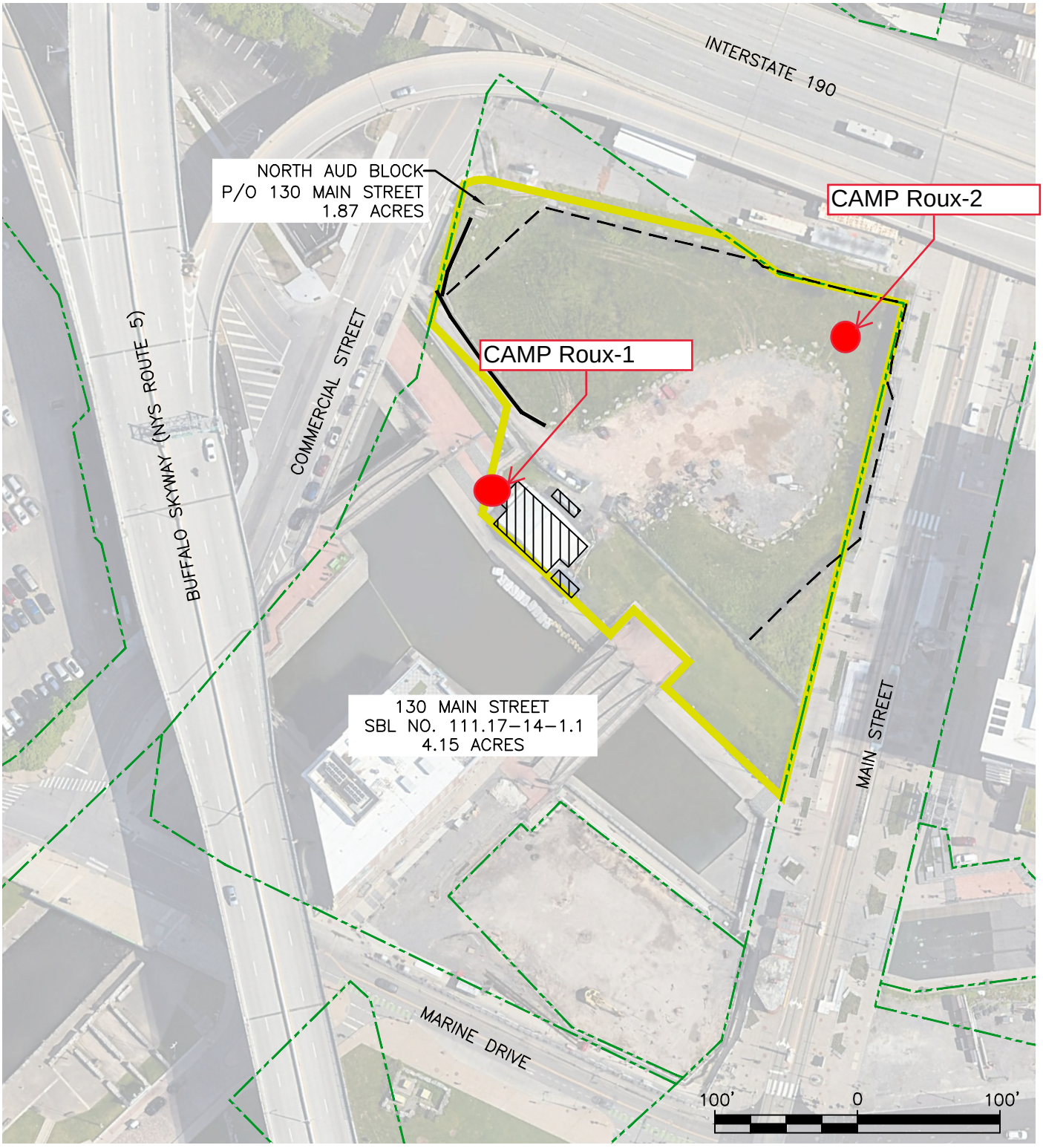
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NOTE: All exceedences are to be reported to Roux within 15 minutes.

Prepared By: Nicholas Suraci Date: 2/12/2025

Checked By: Date:

2/12/2025



LEGEND

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- WOODEN/SHEET PILE RETAINING WALL
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NOTES

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REMEDIAL INVESTIGATION WORK PLAN
NORTH AUD BLOCK

P/O 130 MAIN STREET
BUFFALO, NEW YORK

Prepared for:
NORTH AUD OWNER LLC

ROUX

Compiled by: CNK	Date: JANUARY 2024	FIGURE
Prepared by: CNK	Scale: AS SHOWN	2
Project Mgr: BWM	Project: 4375.0001B000	
File: FIGURE 2; SITE PLAN (AERIAL).DWG		

F:\CAD\0-ROUX\PENNROSE\RIWP\FIGURE 2; SITE PLAN (AERIAL).DWG

COMMUNITY AIR MONITORING DAILY LOG

Date: 2/13/2025
Project: North Aud Site
Job No.:
Client: Pennrose

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	A.M.	P.M.
Ambient Air Temp.:	35	27
Wind Direction:	W	W
Wind Speed:	17	37
Precipitation:	Snow	Snow

DESCRIPTION OF SITE ACTIVITIES: Remedial Investigation

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]					
None					
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
			NA		
None			NA		

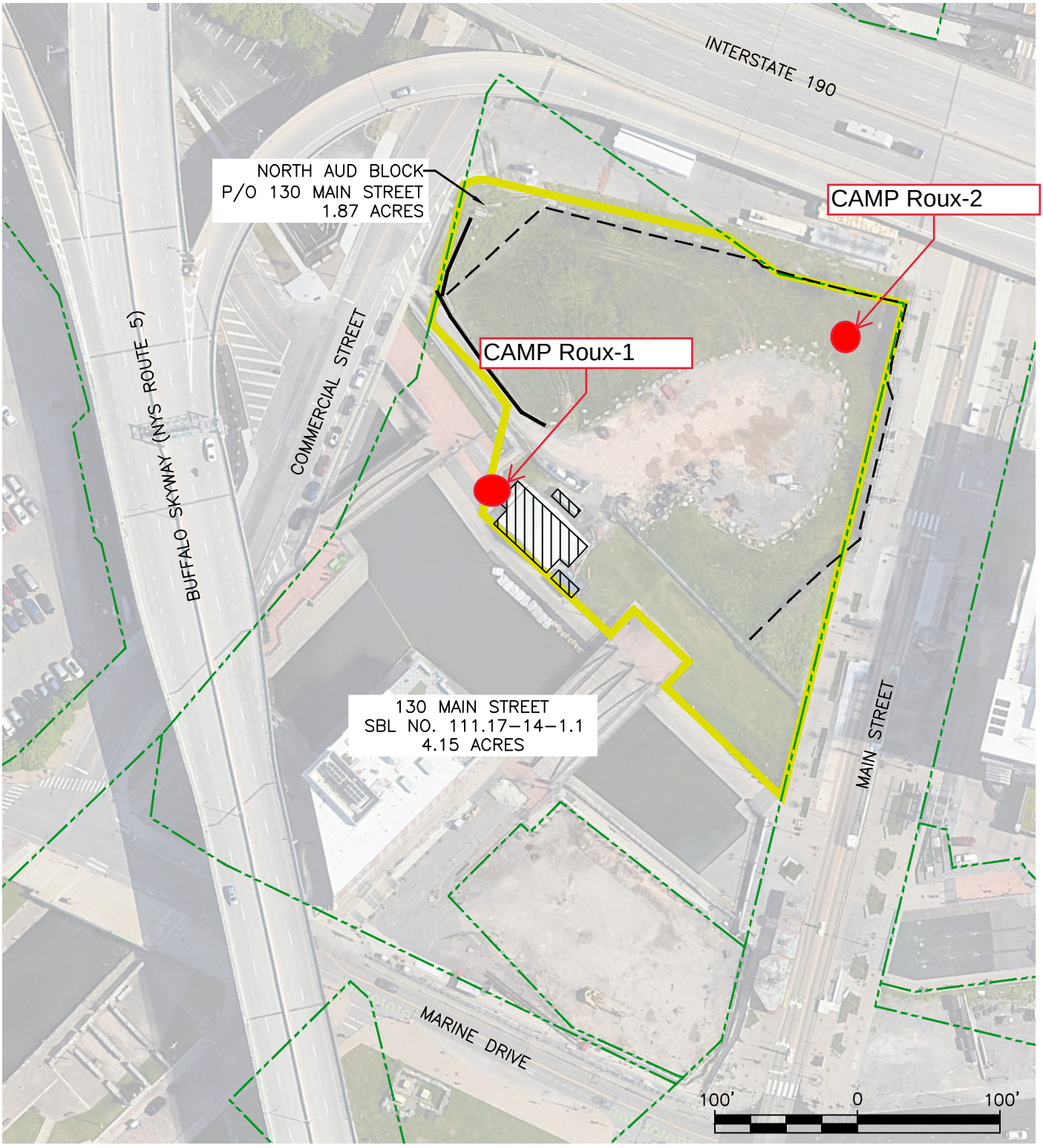
VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]					Temporarily halt Work and continue monitoring
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Exceedence of 25 ppm [2]					Shut Down Work Immediately and notify Site Safety & Health Officer

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Prepared By: Nicholas Suraci Date: 2/13/2025
Checked By: Date:

2/13/2025



LEGEND

- BCP SITE BOUNDARY
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NORTH AUD BLOCK

P/O 130 MAIN STREET
BUFFALO, NEW YORK

Prepared for:
NORTH AUD OWNER LLC

ROUX

Compiled by: CNK	Date: JANUARY 2024	FIGURE
Prepared by: CNK	Scale: AS SHOWN	2
Project Mgr: BWM	Project: 4375.0001B000	
File: FIGURE 2; SITE PLAN (AERIAL).DWG		

F:\CAD\0-ROUX\PENNROSE\RIWP\FIGURE 2; SITE PLAN (AERIAL).DWG

COMMUNITY AIR MONITORING DAILY LOG

Date: 2/14/2025
Project: North Aud Site
Job No.:
Client: Pennrose

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	A.M.	P.M.
Ambient Air Temp.:	18	22
Wind Direction:	W	W
Wind Speed:	16	10
Precipitation:	None	None

DESCRIPTION OF SITE ACTIVITIES: Remedial Investigation

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]					
None					
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
			NA		
None			NA		

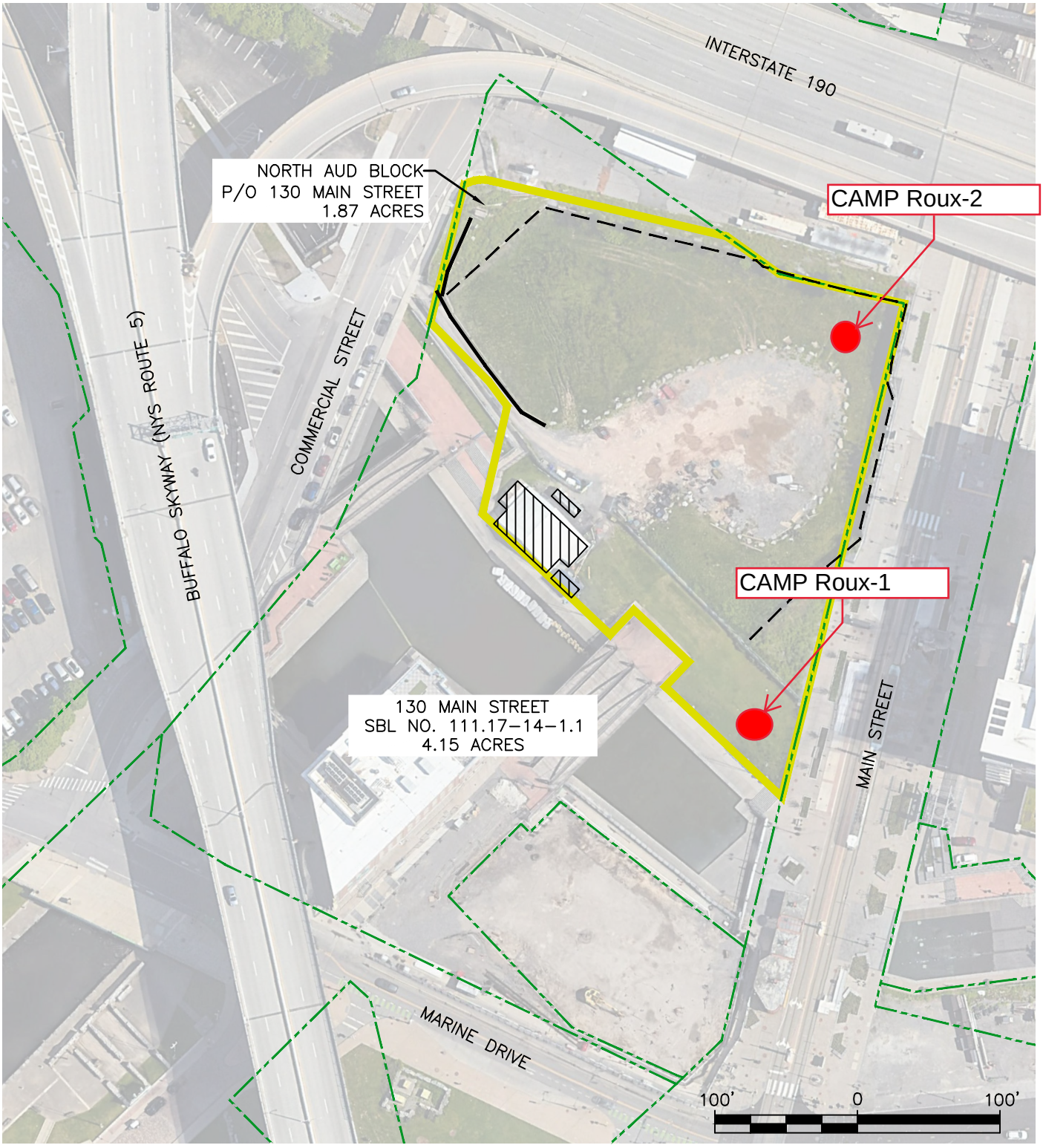
VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
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Prepared By: Nicholas Suraci Date: 2/14/2025
Checked By: Date:

2/14/2025



LEGEND

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NORTH AUD BLOCK

P/O 130 MAIN STREET
BUFFALO, NEW YORK

Prepared for:
NORTH AUD OWNER LLC

ROUX

Compiled by: CNK	Date: JANUARY 2024	FIGURE
Prepared by: CNK	Scale: AS SHOWN	2
Project Mgr: BWM	Project: 4375.0001B000	
File: FIGURE 2; SITE PLAN (AERIAL).DWG		

F:\CAD\0-ROUX\PENNROSE\RIWP\FIGURE 2; SITE PLAN (AERIAL).DWG

COMMUNITY AIR MONITORING DAILY LOG

Date: 2/17/2025

Project: North Aud Site

Job No.:

Client: Pennrose

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	A.M.	P.M.
Ambient Air Temp.:	17	17
Wind Direction:	West	West
Wind Speed:	21	32
Precipitation:	Snow	Snow

DESCRIPTION OF SITE ACTIVITIES: Remedial Investigation

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]					
None					
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
None			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]					Temporarily halt Work and continue monitoring
None					
Reading of 5 to 25 ppm [1]					Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
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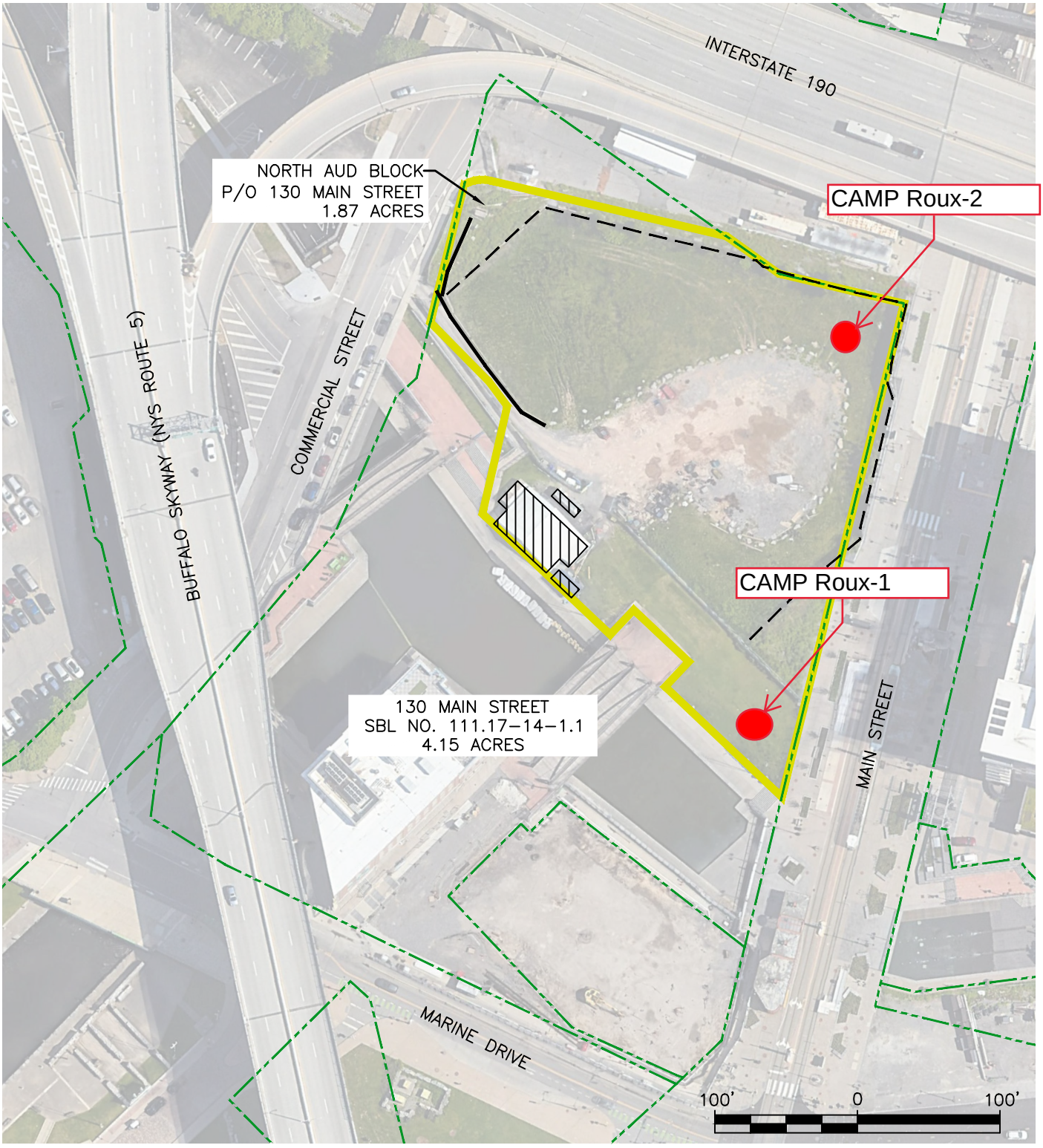
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NOTE: All exceedences are to be reported to Roux within 15 minutes.

Prepared By: Nicholas Suraci Date: 2/17/2025

Checked By: Date:

2/17/2025



LEGEND

- BCP SITE BOUNDARY
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P/O 130 MAIN STREET
BUFFALO, NEW YORK

Prepared for:
NORTH AUD OWNER LLC

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Compiled by: CNK	Date: JANUARY 2024	FIGURE
Prepared by: CNK	Scale: AS SHOWN	2
Project Mgr: BWM	Project: 4375.0001B000	
File: FIGURE 2; SITE PLAN (AERIAL).DWG		

F:\CAD\0-ROUX\PENNROSE\RIWP\FIGURE 2; SITE PLAN (AERIAL).DWG

APPENDIX F

Data Usability Summary Report (DUSR)

Data Validation Services

120 Cobble Creek Road P. O. Box
208 North Creek, NY 12853
Phone (518) 251-4429
harry@frontiernet.net

May 1, 2025

Bryan Mayback
Roux Environmental Engineering and Geology, D. P. C.
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: North Aud Block
Data Usability Summary Report (DUSR); Validation of Analytical Laboratory Data Packages
Eurofins SDG Nos. 480-227296-1, 480-227331-1, 480-227331-2, 480-227359-1, 480-227384-1, 480-227439-1, 480-227586-1, 480-227790-1, 480-227982-1, and 480-228459-1

Dear Mr. Mayback:

Review has been completed for the data packages generated by Eurofins TestAmerica that pertain to samples collected between 02/11/25 and 04/02/25 at the North Aud Block site. Sixteen soil samples, six aqueous samples, and field duplicates of both matrices were processed for TCL and NYCRR Part 375 CP-51 volatile analytes, TCL semivolatiles, Tentatively Identified Compounds (TICs), TCL Aroclor PCBs (PCBs), TCL pesticides, TCL herbicides, per- and polyfluoroalkyl substances (PFAS), and TAL metals; the aqueous samples were also processed for dissolved TAL metals and two of the soil samples were also processed for TCLP lead. Twenty one soil samples and a field duplicate were processed for TCL semivolatiles, PCBs, and TAL metals. Seven soil samples and a field duplicate were processed TCL semivolatiles, Tentatively Identified Compounds (TICs), TCL Aroclor PCBs, TCL pesticides, TCL herbicides, per- and polyfluoroalkyl substances (PFAS), and TAL metals. Six 6 L air canisters were processed for volatile analytes. The analytical methodologies are those of the USEPA SW846, USEPA draft method 1633, and USEPA method TO-15.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation/Sample Receipt
* Holding Times
* Surrogate, Isotopic Dilution, and Internal Standard Recoveries
* Method/Preparation/Calibration Blanks
* Matrix Spike Recoveries/Duplicate Correlations
* Blind Field Duplicate Correlations
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data packages.

In summary, results for the samples are usable either as reported or with minor qualification, with the exceptions of the following:

- Results for soil vapor sample SV-2 are not usable due to inadequate collection, and results for SV-1 are of borderline usability
- Due to matrix interferences, pesticide analyses of soil samples were often processed at dilution typically tenfold and twentyfold. The reported limits in the affected samples are elevated proportionally.
- Some of the semivolatile soil sample analyses were also processed at dilution, typically fivefold, with proportionally elevated reporting limits.

Data completeness, accuracy and precision, representativeness, reproducibility, and comparability are acceptable. Matrix spike and field duplicate accuracy and precision determinations for the soil matrix primarily show recoveries and correlations within validation guidelines, with the exception of outlying matrix spike recoveries and field duplicate correlations observed in the volatile fractions. An additional three sets of volatile and two sets of semivolatile and metals QC samples (MS/MSD/FD) should have been processed to meet properties frequency requirements. No aqueous matrix spike or field duplicate evaluations were performed, and the effect of matrix on sample analyte results has not been fully determined.

Validation data qualifier definitions and client sample identifications are attached to this text. Also included in this report are the client EDDs with recommended qualifiers/edits applied in red.

Blind Field Duplicates

The blind field duplicate evaluations were performed on locations TP-33 1-5', SS-2, RISB-7 4-8 ft, and MW-4. Correlations fall within validation guidelines with the exceptions of the following, the results for which have been qualified as estimated in the indicated parent sample and their field duplicates:

- Iron and manganese in TP-33 1-5'
- Phenanthrene, pyrene, calcium, and mercury in RISB-7 4-8 ft

Volatile Analyses by EPA 8260D

Matrix spikes performed on TP-33 5-9 and MW-2 show recoveries and correlations that are within validation guidelines, with the following, results for which have been qualified in that parent sample:

Parent Sample	Analyte	Outlying % Recoveries
TP-33 5-9	1,2-dibromo-3-chloropropane	47,57
	bromoform	59,64
	1,2-dibromoethane	73,76

LCS recoveries are within validation guidelines. Surrogate and Internal standard recoveries are compliant.

The following detected results below the reporting limit are considered external contamination and edited to non-detection due to presence in the associated blanks:

- Chloroform in samples reported in SDGs 480-227296-1, 480-227331-1, 480-227359-1, and 480-227384-1
- Acetone in samples reported in SDG 480-227331-1

Calibration standards show responses within validation guidelines, with the exceptions of the following, the results for which have been qualified as estimated in the indicated associated samples: trans-1,3-dichloropropene (21%D to 30%D) in TP-33 5-9, TP-33 10-11 Ft, MW-2 0.5-3.5 Ft, MW-2 5-8 Ft, MW-2 12-15 Ft, Blind duplicate-1, TP-34 0.4 Ft, TP-34 5-6 Ft, TP-31 2-4 Ft, RISB-6 17-18 ft, and MW-5 2.5-4FT.

TCL Semivolatile Analyses by EPA8270E- Full Scan and SIM

Due to low acid surrogate standard recoveries (40% and 46%), the results for the phenolic analytes in SS-3 have been qualified as estimated, with a low bias.

Matrix spikes of TP-33 5-9, SS-4, MW-2, and MW-4 0.5-3 ft show recoveries and correlations within validation guidelines, with the exception of the recovery and correlation for pyrene (55% and 39%RPD). The result for that compound in that parent sample has been qualified as estimated.

Matrix spikes of RISB-4 0-2 Ft were processed at a fivefold dilution due to the sample matrix. Those accuracy and precision evaluations are therefore not applicable.

Due to presence in the associated blank, the detections of 1,4-dioxane in samples reported in SDG 480-227586-1 are considered external contamination and either edited to reflect non-detection or qualified as having a high bias.

LCS recoveries are within validation guidelines. Internal standard recoveries are compliant.

Calibration standards show responses within validation guidelines. It is noted that the instrument calibrations support lower reporting limits than those reported for many analytes.

Results for TICs that are also present in associated blanks and analysis artifacts are considered external contamination, and have been removed from consideration as sample components. It is noted that the extraction solvent methylene chloride and the aldol condensate extraction artifacts were not identified by the analysts, and should not have been reported as TICs.

Some of the samples are processed at dilution due to matrix effects. This results in elevated reporting limits for the affected samples

TCL Pesticides, TCL Herbicides, and Aroclor PCB Analyses by USEPA 8081B, 8082A, and 8151A

Some of the detected pesticide results exhibit elevated dual column quantitative correlations, and are qualified to reflect the uncertainty in identification and/or quantitation. The values have been either qualified as estimated ("J"), qualified as tentative in identification and estimated in value ("NJ"), or edited to non-detection ("U"), depending on the degree of variance. In some instances, the adjusted reporting limits are elevated over the original method reporting limits.

Due to presence in the associated blank, the detections of 4,4-DDT in samples reported in SDG 480-227586-1 are considered external contamination and edited to reflect non-detection.

The following matrix spike evaluations were performed, and show recoveries and correlations within validation guidelines:

- Pesticides, PCB, and herbicides were performed on TP-33 5-9, SS-4, and MW-2
- Pesticides and herbicides in RISB-1 -.5-2.5 FT
- Pesticides on RISB-4 0-2 Ft
- Aroclors 1016/1260 on SS-6

Internal standard recoveries are within validation guidelines. Surrogate standard recoveries, when not diluted beyond evaluation, are also acceptable.

Calibration standards show responses within validation guidelines. LCS recoveries are within required ranges.

Many of the soil samples are processed at dilution due to matrix effects. This results in proportionally elevated reporting limits for the affected samples

PFAS by Draft EPA Method 1633

The results following results are qualified as being Estimated Maximum Possible Concentrations due to the outlying ion ratios:

- PFNA in SS-BD
- PFNA in MW-1
- PFOS in MW-6

Matrix spikes of TP-33 5-9, SS-4, and MW-2 show recoveries and correlations within validation guidelines. LCS recoveries are compliant.

Isotopic dilution and internal standard recoveries are within validation guidelines. Calibration standard responses are compliant. Blanks show no contamination.

Volatile Air Analyses by USEPA Method TO-15 - Full Scan and SIM

Results for SV-2 are not usable due to excessive residual canister vacuum (-23"Hg) at sample receipt. Results for SV-1 are qualified as estimated, with a potential significant bias, due to high residual vacuum.

The laboratory duplicate of SV-5 shows acceptable correlations.

Holding times were met. Internal standard recoveries are compliant. Calibration standards show responses within validation action levels.

LCS recoveries are within validation guidelines. Blanks show no contamination.

TAL Metals and TCLP Lead by EPA 6010D, 6020B, 7271A, and 7471B

Matrix spikes and/or duplicate evaluations were performed for TAL analytes on TP-33 5-9, SS-4, RISB-9 2-4FT, total and dissolved fractions of MW-2, and RISB-4 0-2 Ft. The results for the following analytes are qualified as estimated in the indicated parent sample due to recoveries and correlations falling outside validation guidelines:

Parent Sample	Element	Outlying % Recoveries	Outlying % RPD's
SS-4	magnesium	51,37	
RISB-9 2-4FT	antimony	69,72	
	manganese	182, 74	24
	potassium	143,133	
RISB-4 0-2 Ft	calcium	752	89
	copper	190	55
	lead	119,135	34
	magnesium	50	29
	manganese	64,-0.3	25
MW-2 – Total	aluminum	155	31
	iron	165	38
RISB-1 0.5-2.5FT	antimony	64,68	
	magnesium	54,-11	23

The following detected results below the reporting limit are considered external contamination and edited to non-detection due to presence in the associated blanks: zinc in the dissolved fractions of MW-2 and MW-4.

The ICP serial dilution determinations were performed on TAL metals on TP-28 0-2 ft, SS-4, RISB-9 2-4FT, total and dissolved fractions of MW-2, and RISB-4 0-2Ft, and of mercury onTP-28 0.2 ft. The results for the following analytes are qualified as estimated in the indicated parent sample due to recoveries and correlations falling outside validation guidelines:

Parent Sample	Element	%Difference
TP-28 0-2 ft	mercury	43
RISB-9 2-4FT	iron	22
RISB-4 0-2 Ft	iron	20

Calibration and low level standard responses are compliant.

Total and dissolved fraction concentrations correlate well.

It is noted that some metals results were incorrectly flagged as "B" by the laboratory.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Judy Harry

Attachments: Validation Data Qualifier Definitions
Sample Identifications
Qualified Laboratory EQuIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Identification Summary

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227296-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227296-1	TP-28 0-2 ft	Solid	02/11/25 11:30	02/11/25 16:00
480-227296-2	TP-28 5-7 ft	Solid	02/11/25 11:45	02/11/25 16:00
480-227296-3	MW-4 0.5-2 ft	Solid	02/11/25 10:30	02/11/25 16:00
480-227296-4	MW-4 5-8 ft	Solid	02/11/25 10:45	02/11/25 16:00
480-227296-5	MW-4 12-15 ft	Solid	02/11/25 11:00	02/11/25 16:00
480-227296-6	SS-7	Solid	02/11/25 12:00	02/11/25 16:00
480-227296-7	TP-30 2-3 ft	Solid	02/11/25 13:30	02/11/25 16:00
480-227296-8	MW-1 1.5-4.25 ft	Solid	02/11/25 14:45	02/11/25 16:00
480-227296-9	MW-1 5-7 ft	Solid	02/11/25 15:00	02/11/25 16:00
480-227296-10	MW-1 12-15 ft	Solid	02/11/25 15:05	02/11/25 16:00
480-227296-11	RISB-2 1-4 ft	Solid	02/11/25 14:00	02/11/25 16:00
480-227296-12	RISB-3 0.5-3 ft	Solid	02/11/25 14:30	02/11/25 16:00

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227331-1	TP-33 1-5 Ft	Solid	02/12/25 09:00	02/12/25 16:06
480-227331-2	TP-33 5-9	Solid	02/12/25 09:30	02/12/25 16:06
480-227331-3	TP-33 10-11 Ft	Solid	02/12/25 10:00	02/12/25 16:06
480-227331-4	MW-2 0.5-3.5 Ft	Solid	02/12/25 11:00	02/12/25 16:06
480-227331-5	MW-2 5-8 Ft	Solid	02/12/25 11:15	02/12/25 16:06
480-227331-6	MW-2 12-15 Ft	Solid	02/12/25 11:30	02/12/25 16:06
480-227331-7	Blind duplicate-1	Solid	02/12/25 09:15	02/12/25 16:06
480-227331-8	TP-34 0-4 Ft	Solid	02/12/25 12:30	02/12/25 16:06
480-227331-9	TP-34 5-6 Ft	Solid	02/12/25 12:40	02/12/25 16:06
480-227331-10	TP-34 6-8 Ft	Solid	02/12/25 12:45	02/12/25 16:06
480-227331-11	TP-34 13-15 Ft	Solid	02/12/25 13:00	02/12/25 16:06
480-227331-12	TP-31 2-4 Ft	Solid	02/12/25 15:00	02/12/25 16:06
480-227331-13	TP-32 2-3 Ft	Solid	02/12/25 14:35	02/12/25 16:06
480-227331-14	TP-31 7-8 Ft	Solid	02/12/25 14:15	02/12/25 16:06
480-227331-15	TP-31 10-11 Ft	Solid	02/12/25 14:30	02/12/25 16:06

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227331-2
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227331-9	TP-34 5-6 Ft	Solid	02/12/25 12:40	02/12/25 16:06
480-227331-13	TP-32 2-3 Ft	Solid	02/12/25 14:35	02/12/25 16:06

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227359-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227359-1	MW-3 0-2 ft	Solid	02/13/25 10:00	02/13/25 16:45
480-227359-2	SS-1	Solid	02/13/25 11:00	02/13/25 16:45
480-227359-3	SS-2	Solid	02/13/25 11:15	02/13/25 16:45
480-227359-4	SS-BD	Solid	02/13/25 11:20	02/13/25 16:45
480-227359-5	SS-4	Solid	02/13/25 13:00	02/13/25 16:45
480-227359-6	RISB-5 0-1 ft	Solid	02/13/25 14:05	02/13/25 16:45
480-227359-7	SS-3	Solid	02/13/25 15:05	02/13/25 16:45
480-227359-8	SS-9	Solid	02/13/25 15:15	02/13/25 16:45
480-227359-9	SS-10	Solid	02/13/25 15:30	02/13/25 16:45
480-227359-10	SS-8	Solid	02/13/25 15:35	02/13/25 16:45
480-227359-11	RISB-6 0.5-3 ft	Solid	02/13/25 14:30	02/13/25 16:45
480-227359-12	RISB-6 17-18 ft	Solid	02/13/25 15:00	02/13/25 16:45

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227384-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227384-1	MW-6 4-5FT	Solid	02/14/25 10:00	02/14/25 15:40
480-227384-2	SS-5	Solid	02/14/25 12:15	02/14/25 15:40
480-227384-3	SS-6	Solid	02/14/25 13:30	02/14/25 15:40
480-227384-4	RISB-8 0.5-4FT	Solid	02/14/25 12:30	02/14/25 15:40
480-227384-5	RISB-9 2-4FT	Solid	02/14/25 13:15	02/14/25 15:40
480-227384-6	MW-5 2.5-4FT	Solid	02/14/25 14:30	02/14/25 15:40

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227439-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227439-1	RISB-4 0-2 Ft	Solid	02/17/25 12:00	02/20/25 09:00
480-227439-2	RISB-7 4-8 Ft	Solid	02/19/25 12:45	02/20/25 09:00
480-227439-3	Blind duplicate-2	Solid	02/19/25 12:50	02/20/25 09:00

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227586-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227586-1	MW-1	Water	02/27/25 12:45	02/28/25 13:20
480-227586-2	MW-2	Water	02/27/25 11:00	02/28/25 13:20
480-227586-3	MW-3	Water	02/27/25 14:15	02/28/25 13:20
480-227586-4	MW-4	Water	02/27/25 13:30	02/28/25 13:20
480-227586-5	MW-5	Water	02/27/25 15:00	02/28/25 13:20
480-227586-6	MW-6	Water	02/27/25 15:30	02/28/25 13:20
480-227586-7	BD	Water	02/27/25 13:45	02/28/25 13:20
480-227586-8	EQUIPMENT BLANK	Water	02/27/25 10:00	02/28/25 13:20
480-227586-9	FIELD BLANK	Water	02/27/25 15:45	02/28/25 13:20
480-227586-10	TRIP BLANK	Water	02/27/25 09:00	02/28/25 13:20

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227790-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-227790-1	SV-3	Air	02/26/25 13:30	03/08/25 11:00	Air Canister (6-Liter) #34001294
480-227790-2	OA-1	Air	02/26/25 13:00	03/08/25 11:00	Air Canister (6-Liter) #5439

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-227982-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227982-1	RISB-1 0.5-2.5FT	Solid	03/18/25 11:00	03/19/25 09:00

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-228459-1
Project/Site: North Aud Block

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-228459-1	SV-1	Air	04/02/25 15:05	04/05/25 09:40	Air Canister (6-Liter) #3340
480-228459-2	SV-2	Air	04/02/25 15:00	04/05/25 09:40	Air Canister (6-Liter) #3759
480-228459-3	SV-4	Air	04/02/25 14:00	04/05/25 09:40	Air Canister (6-Liter) #5687
480-228459-4	SV-5	Air	04/02/25 14:05	04/05/25 09:40	Air Canister (6-Liter) #9210

APPENDIX G

Fish and Wildlife Impact Assessment

Appendix 3C Fish and Wildlife Resources Impact Analysis Decision Key	If YES Go to:	If NO Go to:
1. Is the site or area of concern a discharge or spill event?	13	2
2. Is the site or area of concern a point source of contamination to the groundwater which will be prevented from discharging to surface water? Soil contamination is not widespread, or if widespread, is confined under buildings and paved areas.	13	3
3. Is the site and all adjacent property a developed area with buildings, paved surfaces and little or no vegetation? Site is primarily vegetated.	4	9
4. Does the site contain habitat of an endangered, threatened or special concern species?	Section 3.10.1	5
5. Has the contamination gone off-site?	6	14
6. Is there any discharge or erosion of contamination to surface water or the potential for discharge or erosion of contamination?	7	14
7. Are the site contaminants PCBs, pesticides or other persistent, bioaccumulable substances?	Section 3.10.1	8
8. Does contamination exist at concentrations that could exceed ecological impact SCGs or be toxic to aquatic life if discharged to surface water?	Section 3.10.1	14
9. Does the site or any adjacent or downgradient property contain any of the following resources? i. Any endangered, threatened or special concern species or rare plants or their habitat ii. Any DEC designated significant habitats or rare NYS Ecological Communities iii. Tidal or freshwater wetlands iv. Stream, creek or river v. Pond, lake, lagoon vi. Drainage ditch or channel vii. Other surface water feature viii. Other marine or freshwater habitat ix. Forest x. Grassland or grassy field xi. Parkland or woodland xii. Shrubby area xiii. Urban wildlife habitat xiv. Other terrestrial habitat Vicinity of Lake Sturgeon, winter waterfowl concentration area, significant gull colony Federal Wetlands within 0.5 miles include Freshwater Emergent Wetland and Freshwater Forested/Shrub Wetland. Area also designated as a NYSDEC previously mapped freshwater wetland. Buffalo River located south of the Site Lake Erie located west of the Site	11	10
10. Is the lack of resources due to the contamination?	3.10.1	14
11. Is the contamination a localized source which has not migrated and will not migrate from the source to impact any on-site or off-site resources? Migration of soil contamination is not expected due to the type of contamination (PAHs, metals, and pesticides), which are not mobile under vegetated cover.	14	12
12. Does the site have widespread surface soil contamination that is not confined under and around buildings or paved areas?	Section 3.10.1	12
13. Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? (See #9 for list of potential resources. Contact DEC for information regarding endangered species.)	Section 3.10.1	14
14. No Fish and Wildlife Resources Impact Analysis needed.		