REMEDIAL INVESTIGATION/ ALTERNATIVES ANALYSIS REPORT

The NEST Site
333 1st Street
City of Niagara Falls, New York
Tax Map ID No.: 159.09-1-2.11
Property County: Niagara
Site No.: C932183

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LIST OF ACRONYMS

AAR	Alternative Analysis Report
ACM	Asbestos Containing Material
BCP	Brownfield Cleanup Program
BDC	Buffalo Drilling Company, Inc.
BE3	BE3 Corp.
bgs	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
CAMP	Community Air Monitoring Program
CFR	Code of Federal Regulations
COC	Contaminants of Concern
CPP	Community Participation Plan
CVOC	Chlorinated Volatile Organic Compound
DER	Division of Environmental Remediation
DLV	DLV Properties, LLC
DUSRs	Data Usability Summary Reports
EC	Engineering Controls
EE	Environmental Easement
ELAP	Environmental Laboratory Approval Program
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
GPS	Global Positioning System
HASP	Health and Safety Plan
IC	Institutional Controls
LBP	Lead-based paint
mg/L	Milligrams per Liter
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
PAHs	Polycyclic Aromatic Hydrocarbons
Paradigm	Paradigm Environmental Services, Inc.
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethylene
PFAS	Per- and Polyfluoroalkyl Substances
PID	Photoionization Detector
Ppb	Parts per billion
Ppm	Parts per million
Ppt	Parts per trillion
PVC	Polyvinyl Chloride
QEP	Qualified Environmental Professional
QA/QC	Quality Assurance/Quality Control
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
REC	Recognized Environmental Condition
RI	Remedial Investigation
SCG	Standards, Criteria, and Guidance
SCO	Soil Cleanup Objective
SIM	Selective Ion Method
SMP	Site Management Plan
SVOCs	Semi-Volatile Organic Compounds
SWPPP	Stormwater Pollution Prevention Plan

TAL	Target Analyte List
TCE	Trichloroethylene
TDEM	Time Domain Electromagnetic
TOGS	Technical and Operational Guidance Series
TT	Test Trench
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

CERTIFICATION

I, Jason Brydges, certify that I am currently a New York State registered professional engineer as defined in 6 NYCRR Part 375 and that this Remedial Investigation/Alternative Analysis Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Department of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Jason M. Brydges, PE

1.0 INTRODUCTION

Community Services for Every1, Inc. and Community Services Seventh Housing LLC have executed a Brownfield Cleanup Agreement (BCA) Index No. C932183-10-23 with the New York State Department of Environmental Conservation (NYSDEC) as volunteers for The Nest Site (Site) NYSDEC #C932183 located in Niagara Falls, New York. A remedial investigation (RI) has been completed, and the results of the RI in addition to a remedial alternatives analysis (AA) are presented in this document as required by the Brownfield Cleanup Agreement (BCA). A site location map is provided as **Figure 1.**

The RI/AAR was completed in accordance with BCP requirements as defined in Section 375-3.8 of the NYSDEC 6 New York Codes, Rules and Regulations (NYCRR) Part 375 Environmental Remediation Program Regulations. It is anticipated that the remedial measure selected will lead to a site remedy as defined in Part 375-1.8(g)(2)(ii); achieve soil cleanup objectives (SCOs) as defined in Part 375-6.8(b); and mitigate environmental impacted media issues at the site.

1.1 SITE BACKGROUND

The parcels that comprise the Site consist of a portion of the two parcels; SBL #159.09-1-2.11 and #159.09-1-2.12 located at 333 1st Street and 217 Old Falls Street, respectively, in the City of Niagara Falls. The acreage for the portion of these two parcels that compose the BCP site total approximately 0.985 acres. The Site is bound by 1st Street to the west, Old Falls Street to the south, a commercial building to the east, and a large parking lot to the north.

Approximately 95 percent of the Site contains a concrete building slab from a recently demolished two-story commercial building known as the Smokin' Joe's Native Center and was formerly used as a retail store and graphics center. The Site is generally flat and gently sloping towards city streets and the Niagara River to the west. Surface and shallow groundwater flow have most likely been impacted over time by the various developments and fills as well as foundations, street beds, and utility lines. Surface water is directed to adjacent streets and storm drains within the building. In general, groundwater most likely flows west-northwest towards the Niagara River. It should be noted that an easement for the Hydraulic Tunnel or Sewer – Adams station Tunnel runs diagonally through the center of the Site which diverted water from Niagara River to generate hydroelectric power. Completed in 1893, the brick tunnel is over a mile long and runs from Adams Power Plant approximately 180 feet underground to below Niagara Falls. This may impact local groundwater flow.

Historical records including street directories and Sanborn Maps suggest that the site was mixed use residential and commercial. In 1892, the northern portion of the site was occupied by multiple independent residences, stables and shared dwellings including the American House and Temperance House. The southeastern portion of the site was occupied by Western Hotel and the northwestern portion by Hotel Nassau. In 1914, the northwestern portion of the site was occupied by stables, dwellings and the Converse House, the northeastern portion by Wayne Hotel and American Express Company, the eastern portion by Temperance Hotel, the southwestern portion by Hotel Imperial and Hotel Nassau. The site was occupied as follows in 1950: Converse Hotel, J.N. Adams and Co. staging floor and auto parking in the northwest, Wayne Hotel and auto parking in the northeast, Temperance Hotel in the east, New Imperial Hotel and J.N. Adams and Co., a department store, and multiple storefronts in the southeast, and various stores in the southwest. In 1955, the site remains relatively unchanged with the exception of the renaming of Temperance Hotel to Henry Hubbs Hotel. 1950 through 1970 Sanborn maps indicated the

presence of two gas tanks of unknown size in the northwest corner of the site. These gas tanks are not identified on subsequent maps and no removal records were identified, thus presenting a potential vapor intrusion concern. In 1969, J.N. Adams and Co. department store was converted into a leather goods manufacturer. All storefronts located in the southwestern portion of the site were demolished between 1969 and 1970. In 1971, the one- and two-story masonry building, and garage were demolished. The site appears as vacant land from 1979 to 1985. The site was under the ownership of Niagara Heritage Group and Niagara County Industrial Development Agency (IDA) in 1995 and 1996, respectively. Since 1995, the site was occupied by a large, U-shaped structure which was demolished in September through November 2024.

1.2 Previous Environmental Assessments/Investigations

Various Environmental assessments have occurred on the Site including the following:

- Hazardous Materials Inspections were performed on the Site prior to demolition by Stohl Environmental, Inc in September 2011 and by Watts Architecture and Engineering in October 2018. Various materials were identified as asbestos containing material (ACM) including HVAC tar, curbs, vent pipes and access hatch. Lead-based paint (LBP) was identified on structural steel.
- A Phase I Environmental Site Assessment (ESA) was performed on the Site by LiRo Engineers Inc. in October 2018 to identify the presence or likely presence of recognized environmental conditions (RECs). Two gasoline tanks historically located on-site in the northwest corner from 1950 to 1970 were identified as a REC.
- A subsequent Phase II was performed by LiRo Engineers Inc. in February 2019 to investigate potential impacts in soil and soil gas on the subject property. The Phase II ESA focus was associated with the two possible gasoline tanks and potential impacts from adjacent property history of commercial and railroad use. Phase II ESA observations indicated urban fill conditions from 0-8 feet below ground surface (bgs). Laboratory soil sample analytical results indicated metals and SVOCs above NYSDEC restricted residential and industrial SCOs.
- BE3/AMD completed a Phase II ESA for Brownfield application purposes in April 2023. The assessment found that fill exists across the Site at depths to about 0-8 feet in most locations. Laboratory results of the fill showed elevated levels of metals and SVOCs, mostly polycyclic aromatic hydrocarbons (PAHs). While some VOCs were detected in the fill materials none were above Residential SCOs.
- Concurrently with the BE3/AMD Phase II ESA, a Geotechnical Evaluation was performed by Foundation Design P.C. which confirmed the fill depth ranging from 0-7 feet and depth to bedrock of approximately 11 feet below ground surface. It was also noted that the existing fill is not suitable structural material for the proposed structure.

1.3 Identification of Standards, Criteria, and Guidance

Standards, criteria, and guidance (SCGs) are promulgated requirements (“standards” and “criteria”) and non-promulgated guidance (“guidance”) that govern activities that may affect the environment and are used by the NYSDEC at various stages in the investigation and remediation of a site. The following are the primary SCGs for this project:

- NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs, December 2006.
- NYSDEC DER-10 Technical Guidance for Site Investigations and Remediation, May 2010.

- NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998.
- NYSDEC Policy CP-51 Soil Cleanup Guidance, October 2010.
- NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), Under NYSDEC's Part 375 Remedial Programs, April 2023.
- NYSDEC 6 NYCRR 360 Solid Waste Management Facilities General Requirements, August 2020.
- NYSDOH Final Guidance for Evaluating Soil Vapor in The State of New York (2006) with updates (SVI Guidance).

2.0 REMEDIAL INVESTIGATION

Investigation activities were performed in accordance with the requirements of the Remedial Investigation Work Plan (RIWP) *(Remedial Investigation Work Plan,* The Nest Site, *Site* #C932183*, August 2024)* that was approved by NYSDEC Region 9 as part of the BCP process. The existing building located on the BCP portion was demolished and a building environmental assessment was performed prior to RI activities which were completed between October and November 2024. The RI activities included: completing a geophysical survey; test trenching; soil borings; groundwater monitoring well installation; soil and groundwater sampling; and soil vapor investigation.

Field personnel under the direct supervision of a qualified environmental professional (QEP) were present during field activities to identify field investigation locations, log subsurface materials, field screen and sample surface/subsurface soil and groundwater, etc. As noted in the RIWP, John Boyd was identified as the Project Geologist. During the RI, however, Tim Burmier served as the on-site geologist responsible for logging and monitoring well installation, while John Boyd served as the supervising geologist for off-site well installation performed as part of the supplemental RI. This represents a deviation from the RIWP staffing plan. Tim Burmier's resume is provided in **Appendix D.**

A supplemental investigation was also completed as requested by the DEC in May 2025 in accordance with the requirements of the *Supplemental Remedial Investigation Work Plan (RIWP) [revised April 3, 2025]*. The primary purpose of the investigation was to assess potential on- and off-site source locations and migration pathways of contaminants of concern (COCs) found in groundwater and vapor on site. Potential on-site sources included 2 on-site floor drains while potential off-site sources included a historic dry-cleaning operation located in the off-site parking lot northernly adjacent to the BCP site. Investigation activities included 4 soil samples taken from on-site floor drain locations, 2 off-site soil vapor samples, and 1 off-site groundwater sample in approved off-site locations. The results from the on-site floor drain sampling are discussed throughout the report (See **Table 5**). The results from the off-site portion of this investigation are discussed throughout the report. A further discussion is included in the summary of findings letter for this investigation provided in **Appendix J**.

As part of the supplemental investigation, 12 waste characterization samples were also taken across the site strictly for waste disposal purpose to compare to recipient waste disposal facility's acceptance criteria. The results from these samples do not provide any relevant information for characterizing the nature and extent of the presence of COCs at the Site and, therefore, have not been summarized throughout the report but are attached in **Appendix E.**

RI field photographs are included in **Appendix A**. All RI samples were located with a field GPS and all locations are listed in **RI Table 1**.

2.1 DEMOLITION

The existing building was demolished in September and October 2024 prior to RI activities. Hazardous materials inspections of the previously existing building have been conducted multiple times throughout the life of the building including 2011 and 2018 which identified the presence of ACM and LBP. The inspection included a comprehensive ACM, PCB and LBP survey. A certificate of complete removal of ACM was obtained August 1, 2024, prior to demolition and is included in **Appendix C**. Photos of the demolition are included in **Appendix A**. All materials removed from the site have been documented, and upon completion of Site remediation, this information will be included in the Final Engineering Report (FER).

2.2 GEOPHYSICAL SURVEY

Prior ESAs indicated two USTs remained in the northwest corner of the Site. A geophysical survey was conducted by Maddan Geophysics LLC (MADDAN) on October 28, 2024, in the area identified by past ESAs. A Geonics EM61 was used to map the distribution of buried metals at the Site. The EM61 unit is a high sensitivity, high resolution time domain electromagnetic (TDEM) metal detector that can detect both ferrous and nonferrous metallic objects. It has an approximate investigation depth of 10 feet.

Metals were indicated in the subsurface and one anomalous area was identified due to the high geophysical response in the absence of a surface feature (i.e., reinforced pad or debris) that might account for the response. The anomalous area is shown on Figure 1 in the Geophysical Survey Report provided in **Appendix B.** The general location of the survey is provided on **Figure 3.** A test trench was later performed to identify the anomaly and is discussed in Section 2.3.

2.3 SOIL INVESTIGATION

The primary purpose of the surface/subsurface assessment was to visually inspect and describe near surface and subsurface conditions across the Site and to assess the fill/soil by collecting and analyzing soil samples. The intent of the Remedial Investigation, in accordance with DER-10 §3.1(c)(1), is to determine the nature and extent of contamination at the Site.

Phase II investigation data, which was collected prior to the Site's entry into the Brownfield Cleanup Program, was not validated and was not analyzed for all parameters. Therefore, the Phase II data has been used solely as guidance in the design and planning of the RI and is not relied upon as final RI data for any portion of the Site. Some changes were made to the investigation locations provided in the RIWP as follows:

- RI BH-1 was moved a few feet south to avoid the building footers
- RI BH-3 was moved west onto the existing slab due to limited drill-rig access in the northeast corner. A surface soil sample was not collected at this location because the slab prevented direct access to underlying surface soils without concrete removal, which was outside the scope of the RI.
- RI BH-6 was added to the northeast section of the site
- RI BH-9 was moved 10 feet to the east due to refusal and low soil recovery

Test Trenches

One test trench (RI-TT-1) was advanced on November 13, 2024, using a track backhoe in the approximate location shown on **Figure 3**. The test trench focused on the historic UST area where the geophysical assessment identified a subsurface anomaly. The trench was excavated to confirm whether the anomaly was a UST.

The excavated material was temporarily stockpiled adjacent to the trench and field screened for volatiles using a PID as it was removed from the trench. During excavation, one perforated steel UST was uncovered. The tank was oriented horizontally with the base at approximately 6 to 7 feet below ground surface (bgs), an estimated diameter of 4 feet, and an approximate length of 8 feet, corresponding to a capacity of about 1,000 gallons. The UST was uncovered along the top (approximately 2 feet bgs) and sides, exposing roughly two-thirds of the tank to allow inspection while maintaining safe trench conditions.

The UST was visually inspected through multiple perforations (ranging from 0.5 to 1 inch in diameter) in the shell, which allowed for some observation of the interior. Although no liquid product, sludge, or residual petroleum odors were observed inside the tank during inspection, the existence of any material within the tank is still unknown at this time. No staining, sheen, or free products were noted in the excavation below or around the UST. Soil directly beneath the tank consisted of brown to black silty fill with black cinders, crushed rock, some sand, and clayey silt—similar to surrounding fill material. The maximum PID reading recorded in the trench was 4.5 ppm. Photos are included in **Appendix A**.

Piping was encountered on the top of the tank (See photo 103 in the RI Photo log). There were no associated vent lines, or nearby utility interferences encountered. One soil sample was collected from approximately 6–7 feet bgs adjacent to the base of the UST. The sample was selected based on PID readings, visual/olfactory observations, and representativeness of the surrounding soils, and was submitted for laboratory analysis in accordance with the procedures outlined in the RIWP Field Sampling Plan (FSP).

Four additional test trenches were performed on April 3, 2025, to assess potential impacts from two previously identified on site floor drains (See **Figure 14**). Two test trenches were performed on the northern and southern side of each floor drain (i.e., four total trenches). Soil directly beneath the slab consisted of brown to black silty fill with black cinders, crushed rock, some sand, and clayey silt—similar to surrounding fill material. A total of two samples were taken from each floor drain location.

Following screening and sampling, all test trenches were backfilled with the same material removed during excavation, placed in the same order and approximate depth from which it was excavated. The soil was compacted with the excavator bucket during backfilling. The UST will be removed at a later date pursuant to an approved Remedial Action Work Plan.

Soil Borings

A total of 20 soil borings (RI-BH-1 through RI-BH-12, RI VP-1 through RI VP-4 and RI MW-1 through RI MW-4) were completed across the Site from October 17 to November 4, 2024, (see **Figure 3**). RI BH-1 to RI BH-12 were completed using a Geoprobe. In locations where the Geoprobe was refused at shallow depths, an auger was used to investigate the subsurface. RI VP-1 to RI VP-4 were soil borings converted into vapor points. RI MW-1 to RI MW-4 are monitoring

well locations where soil samples were collected using a split spoon and then augured. A total of 20 soil samples and three QA/QC samples were collected from fill and native soils.

Boring locations were selected to provide uniform coverage of the Site in the RI phase and to ensure representative characterization of the site-wide soil/fill conditions. The investigation was conducted in an approximate grid pattern to assess previously unexplored areas, with step-out borings completed in known areas of concern identified during the previous Phase II ESA to further delineate potential impacts. The supplement investigation completed the delineation of the nature and extent of contamination.

Prior to each soil boring, the concrete slab which ranged from 5 to 16 inches thick, was cored and removed. Soil borings were advanced to depths ranging from 6.8 to 9.4 feet bgs using a track mounted Geoprobe® unit which employs direct push technology and truck mounted auger with split spoon attachment where the Geoprobe was refused at shallow depths. Continuous soil sampling was performed using Macro Core soil samplers measuring approximately 48 inches in length and 1½ inches in diameter with acetate liners resulting in approximately 4-foot length distinct sample cores (i.e., 0 to 4 feet, 4 to 8 feet, 8 to 12 feet). Each of the samplers was fitted with a new acetate liner prior to re-use. All soil borings were backfilled with the soil from the boring.

The following was completed during each boring and test pit excavation:

- A description of the soil stratigraphy was made (refer to boring/test trench logs in **Appendix D**);
- Visual observations (staining, odors, etc.) were recorded if noted;
- Total organic vapor monitoring was completed as each boring was installed using a RKI GX 6000, 11.7 eV photoionization detector (PID); and
- Cleaning of equipment between each boring/test pit location.

All soil samples were submitted to Eurofins Buffalo Laboratory a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory and a full Contract Laboratory Program (CLP). Samples were analyzed in accordance with NYSDEC Category B, with full CLP-type analytical data package deliverables. Analytical results for all soil samples are discussed in Section 4.0.

See Section 4.3.1 for a summary of each compound exceedance, corresponding exceedance location, applicable SCOs exceeded, and parameters sampled for.

2.4 GROUNDWATER INVESTIGATION

Four groundwater monitoring wells were installed during the RI as per the approved RIWP. One well (RI MW-4) was installed in the overburden at the historic UST area. The three remaining wells were installed in the bedrock; two were installed at 30 feet bgs and one at 50 feet bgs. Groundwater was identified at approximately 21.3 feet bgs. No measurable groundwater was identified in the overburden.

Monitoring Well Installation and Development

Each of the four monitoring wells were installed using a conventional truck drill rig with hollow stem auger drilling techniques through the over burden. A 4.25-inch hollow stem auger was used to drill to depths of up to approximately 12 feet bgs. The overburden well screen for RI-MW-4 was

installed at the top of bedrock. For bedrock wells, RI MW-3 was cored to a depth of 50 feet bgs and RI MW-2 and RI MW-1 were installed at 30 feet bgs using an air hammer. Locations of the wells are shown on **Figure 3.**

All monitoring wells were constructed using 2-inch inside diameter (ID), flush joint, Schedule 40 polyvinyl chloride (PVC), with 0.010-inch slotted screen at 5 to 15 feet in length. A two-inch PVC riser was installed atop the screen to bring the well to just below flush and the well was flush mounted with a cover and grouted in place. For bedrock wells, a roller bit was used to install a steel casing approximately 2 feet into bedrock which was grouted in place and allowed to set prior to coring or air hammer activities.

Well construction diagrams and development logs are provided in **Appendix D**. Monitoring wells were installed and developed in October of 2024.

Monitoring Well Sampling

The well installed in the overburden (RI MW-4) did not produce any appreciable groundwater. Therefore, no groundwater sample was collected from the overburden.

Groundwater sampling of the three bedrock monitoring wells was completed on October 28, 2024. Well sampling was conducted in accordance with the RIWP. One groundwater sample was collected from each of the monitoring wells. A different dedicated weighted high-density polyethylene (HDPE) bailer was used to surge, purge, and sample each of the wells. Sampling was initiated by measuring the depth to groundwater and total well depths using an electronic water level indicator. The water level indicator was decontaminated using an Alcon ox/water mixture and a water rinse prior to insertion in each well. Measurements were taken with respect to the top of the well casings, and depths were determined to an accuracy of 0.01 foot. Water quality parameters (temperature, specific conductivity, DO, pH, ORP, and turbidity) were monitored at logged intervals. Sampling and purging logs are provided in **Appendix D.**

The samples were submitted to a NYSDOH ELAP certified laboratory. Samples were analyzed in accordance with NYSDEC Category B, with full CLP- analytical data package deliverables. Analytical results for all groundwater samples are discussed in Section 4.0.

The following are the measured well depths and water levels from the top of casing at the time of sampling:

- RI MW-1: 29.7 feet to bottom of well – 8.4 feet to standing water from top of well casing.
- RI MW-2: 30.0 feet to bottom of well – 8.1 feet to standing water from top of well casing.
- RI MW-3: 49.7 feet to bottom of well – 26.5feet to standing water from top of well casing.
- RI MW-4: 10.1 feet to bottom of well – no standing water observed.

See Section 4.4 for a summary of each compound exceedance, corresponding exceedance location, applicable SCOs exceeded, and parameters sampled for.

2.5 Soil Vapor Investigation

To assess the potential for vapor intrusion, four soil borings installed through the existing concrete slab were converted into soil vapor sampling points (RI-VP-1 to RI-VP-4). Soil vapor samples were collected in each quadrant of the site at depths ranging from 4 to 7.2 feet bgs. Vapor sample locations are shown on **Figure 3.**

At each vapor probe location, fill that was removed during soil boring installation was placed back into the boring to various depths, then the probes with Teflon tubing attached were installed with two feet of sand pack. The remaining portion of the fill from boring operations was then placed over the sand and the hole was then sealed with bentonite chips. To collect a sample, the 6-liter canisters were connected to the tubing, sealed with swage locks, and allowed to collect for 24 hours.

To collect a sample, the 6-liter canisters were connected to the tubing, sealed with swage locks, and allowed to collect for 24 hours. The four vapor points were sampled per the NYSDOH Final Guidance for Evaluating Soil Vapor in The State of New York (2006) with updates (SVI Guidance).

3.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA

3.1 Surface Features

The 0.985-acre site includes portions of two parcels (SBL: 159.09-1-2.11 and 159.09-1-2.12) located at 333 1st Street and 217 Old Falls Street. These parcels are part of a larger 3.705-acre property historically held under common ownership, which includes adjacent areas outside the BCP boundary that are not part of this remedial investigation. The 0.985-acre BCP Site encompasses the portion of the property where the former Smokin' Joe's building was located and where the remedial activities described in this report are being performed.

Based on historical records, the 3.705-acre property has been utilized in a commercial/industrial nature since the buildings were initially constructed in 1910. The BCP Site is generally flat, following demolition of the former commercial building, with the concrete slab remaining in place.

A floor drain survey was performed during RI activities and revealed two floor drains on the western portion of the site (Refer to **Figure 4 and Figure 5**). Upon inspection, the drains were found to be filled with demolition debris. No sediment was observed, and no sample could be collected. After clearing the debris and removal of the concrete slab, supplemental soil/sediment samples were collected from directly beneath each drain location to comply with DER-10 requirements. A minimum of two soil samples were collected in proximity to each drain and analyzed for NYSDEC Part 375 Metals, SVOCs, and VOCs.

3.2 Geology/Hydrogeology

Shallow subsurface conditions generally consisted of fill with some construction and demolition debris including brick, concrete and cinder material. Fill depths ranged from 0.5 to 10 feet bgs across the Site. Beneath the fill in some locations was stiff, tight, brown silty clay. Bedrock was identified ranging from 8 to 10 feet below ground surface consisting of grey dolomite with multiple fractures.

Groundwater levels were measured in the three bedrock monitoring wells at the depths noted in Section 2.4. Slug tests were performed at the bedrock monitoring well locations using a weighted HDPE bailer to determine permissivity in the subsurface. The data was analyzed using Aqtesolv software and the results are included in **Appendix D**.

3.3 Demography and Land use

The re-development of the Nest Site will be a six-story mixed use structure with the first floor being primarily commercial and the upper floors residential. Additional development features will include asphalt parking, a playground area, plant bedding and sod lawn areas, and hardscape sidewalks throughout the site.

4.0 NATURE AND EXTENT OF CONTAMINATION

4.1 Introduction

This section discusses the results of the RI activities and the nature and extent of contaminants detected in the media investigated. The assessment is based on the RI program combined with the data obtained in previous investigations to provide an overview of the nature and extent of impacts at the Site.

All soil and groundwater samples were submitted for analysis to Eurofins Analytical Laboratory, a New York State certified laboratory. Air samples were submitted for analysis to PACE Labs, also, a New York State certified laboratory. A New York State licensed firm, ACP Buffalo, Inc. of Buffalo, New York, conducted the asbestos abatement prior to demolition.

All soil, groundwater and air analytical data were validated by Environmental Data Usability (EDU), an independent certified data validator. Data from previous Phase II investigations were reviewed and used for informational and planning purposes; this data was not validated to NYSDEC requirements and is therefore not relied upon as definitive RI data. Complete laboratory analytical results and DUSRs are provided in **Appendix E**.

4.2 Potential Sources

The history and use of the Site suggest there was potential contaminants of concern associated with fill material and past commercial and manufacturing use as well as petroleum use and storage. Potential contaminants include metals, polycyclic aromatic hydrocarbons (PAHs), petroleum related compounds, solvents and PCBs. Contaminants of concern were associated with historic Site operations that include:

- In 1969, J.N. Adams and Co. department store located on the site was converted into a leather goods manufacturer. These operations often include the use of chemicals and solvents in the tanning process which may have impacted the subsurface.
- 1950 through 1970 Sanborn maps indicated the presence of two gas tanks of unknown size in the northwest corner of the site. These gas tanks are not identified on subsequent maps and no removal records were identified, thus presenting a potential vapor intrusion concern.
- In the 1970's the site was significantly redeveloped including demolition of the several structures on the Site resulting in reworked subsurface fill materials and construction and demolition debris.
- An offsite historic dry cleaner was identified in Sanborn Maps from the 1950's to the 1970's

located approximately 100 feet upgradient from the Site representing a potential offsite source of contamination.

During the May 2025 off-site investigation, a bedrock monitoring well and vapor point were installed to investigate an upgradient off-site historic dry cleaner identified in Sanborn Maps from the 1950's to the 1970's. Concentrations of COCs, primarily PCE, TCE, and PFAS, were identified, but the levels were below those found on Site for CVOCs and above for PFAS. The maximum concentrations of COCs found on-site versus off-site in the upgradient northern parking lot were as follows:

Bedrock Groundwater Wells

Contaminant of Concern	Maximum On-Site	Maximum Off-Site
Tetrachloroethene	12 ppb (RI-MW-3)	4.6 ppb (OW-1)
Trichloroethene	ND	2.2 ppb (OW-1)
PFOA	42 ppt (RI-MW-1)	49 ppt (OW-1)
PFOS	13 ppt (RI-MW-1)	16 ppt (OW-1)

Note: Only results from the 5/30/2025 resampling event of the off-site well (OW-1) are considered for maximum concentrations as the well was not considered adequately developed during the initial round of sampling.

Vapor Points

Contaminant of Concern	Maximum On-Site	Maximum Off-Site Upgradient
Tetrachloroethene	184 ug/m3 (RI-VP-1)	51 ug/m3 (Off Site RI-VP-2)
Trichloroethene	155 ug/m3 (RI-VP-1)	8.5 ug/m3 (Off Site RI-VP-2)

Additionally, there was a second off-site vapor point installed in the downgradient southern parking lot adjacent to the Site. The concentrations of COCs were as follows:

Contaminant of Concern	Off-Site RI-VP-1 Downgradient
Tetrachloroethene	51 ug/m3
Trichloroethene	ND

Based on a comparison of the on-site vapor points and the location of the off-site RI-VP-1 in a downgradient location from the BCP site, there is a low possibility that PCE may be migrating off of the BCP site.

The findings of the RI sampling analytical program are further described below.

4.3 Soil Sample Analytical Results

The following provides a summary of the results of the RI soil sample analytical program. The soil analytical results were compared to the NYSDEC Unrestricted, Residential, and Restricted Residential Soil Cleanup Objectives (SCO) listed in Table 375-6.8(a) and (b) of 6 NYCRR Part 375 (December 2006). Analytical results for per-and-polyfluoroalkyl substances (PFAS) in soil

were compared to NYSDEC-Sampling, Analysis, and Assessment of PFAS Under NYSDEC Part 375 Remedial Programs-April 2023 SCO.

The following data qualifiers exist for some of the results received from the laboratory

F1 indicates that the reported result was flagged as an estimated value due to a minor quality control issue (e.g., low surrogate recovery, minor blank contamination, or other qualifier as defined in the Data Usability Summary Report)

F2 indicates that the reported result was flagged due to a minor quality control issue observed in the MS/MSD or Relative Percent Difference in QA/QC samples.

J indicates that the reported value is approximate.

All data qualifiers are further assessed in the attached DUSRs.

4.3.1 Soil Test Trench and Borehole Samples

Soil test trench and borehole sample compounds detected during the RI are summarized in **Table 2.**

The summary below of soil compound exceedances are for reference, compared to Unrestricted, Residential, and Restricted Residential SCOs. **Figure 4** provides the exceedances above Unrestricted SCOs and Restricted Residential SCOs.

Semi-Volatile Organic Compounds (SVOCs)

Test Trench Soil Samples

One test trench sample was collected RI TT-1. No detections above Unrestricted SCOs were observed for SVOCs.

No detections above Unrestricted SCOs were observed in any of the four test trench samples taken to characterize the soils proximate to the onsite floor drains (Drain 1 through Drain 4) for SVOCs.

Borehole Soil Samples

A summary of RI borehole soil samples with SVOC concentrations exceeding Unrestricted, Residential and/or Restricted Residential SCO follows (RRSCO exceedances are in **BOLD**:

RI MW-1	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Benzo[a]anthracene	**2.2**	1	1	1
Benzo[a]pyrene	**2.2**	1	1	1
Benzo[b]fluoranthene	**2.5**	1	1	1
Benzo[k]fluoranthene	0.94 J	0.8	1	3.9

Chrysene	2.3	1	1	3.9
Dibenz(a,h)anthracene	**0.39 J**	0.33	0.33	0.33
Indeno[1,2,3-cd]pyrene	**1.2**	0.5	0.5	0.5

RI BH-3	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Benzo[a]anthracene	**7.3**	1	1	1
Benzo[a]pyrene	**8.3**	1	1	1
Benzo[b]fluoranthene	**9.8**	1	1	1
Benzo[k]fluoranthene	3.4	0.8	1	3.9
Chrysene	**6.4**	1	1	3.9
Dibenz(a,h)anthracene	**1.9**	0.33	0.33	0.33
Indeno[1,2,3-cd]pyrene	**4.1**	0.5	0.5	0.5

RI BH-4	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Benzo[a]anthracene	**3.9**	1	1	1
Benzo[a]pyrene	**3**	1	1	1
Benzo[b]fluoranthene	**3.3**	1	1	1
Benzo[k]fluoranthene	1.9	0.8	1	3.9
Chrysene	3.3	1	1	3.9
Dibenz(a,h)anthracene	**0.53 J**	0.33	0.33	0.33
Indeno[1,2,3-cd]pyrene	**1.5**	0.5	0.5	0.5

RI BH-7	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Benzo[a]anthracene	**8.2**	1	1	1
Benzo[a]pyrene	**7.4**	1	1	1
Benzo[b]fluoranthene	**8.4**	1	1	1
Benzo[k]fluoranthene	**4.1**	0.8	1	3.9
Chrysene	**8**	1	1	3.9
Dibenz(a,h)anthracene	**1.2 J**	0.33	0.33	0.33
Indeno[1,2,3-cd]pyrene	**3.9**	0.5	0.5	0.5

RI BH-8	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Benzo[b]fluoranthene	**1.1 J**	1	1	1
Indeno[1,2,3-cd]pyrene	**0.54 J**	0.5	0.5	0.5

RI BH-10	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Benzo[a]anthracene	**1.4 J**	1	1	1
Benzo[a]pyrene	**1.5 J**	1	1	1
Benzo[b]fluoranthene	**1.9 J**	1	1	1
Chrysene	1.5 J	1	1	3.9
Indeno[1,2,3-cd]pyrene	**0.98 J**	0.5	0.5	0.5

RI VP-1	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Benzo[a]anthracene	**1.0 J F1**	1	1	1
Benzo[a]pyrene	**1.1 J F1 F2**	1	1	1
Benzo[b]fluoranthene	**1.3 J F1 F2**	1	1	1
Indeno[1,2,3-cd]pyrene	**0.55 J F1 F2**	0.5	0.5	0.5

RI VP-3	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Benzo[a]anthracene	**2.5 J F1 F2**	1	1	1

Pesticides/PCBs

Test Trench Soil Samples

There were no pesticides or PCBs detected in the test trench soil samples collected near the floor drains or near the UST.

Borehole Soil Samples

No PCBs were detected in the soil samples collected from soil borings operations. No pesticides were detected in the soil samples collected above Restricted Residential SCOs, however the following Pesticides were detected above Unrestricted SCOs.

RI MW-2	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
4,4'-DDT	0.011 JB	0.0033	1.7	7.9

RI BH-7	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
4,4'-DDT	0.0086 J	0.0033	1.7	7.9

Metals

Test Trench Soil Samples

There were no metal detections above restricted residential SCOs with the exception of Lead, Cadmium, and Manganese. The RI test trench soil samples containing metal concentrations exceedances are as follows:

RI TT-1 (Tank Location)	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Zinc	521	109	2200	10000

Drain 1	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Arsenic	13.6	13	16	16
Cadmium	**4.7**	2.5	2.5	4.3
Chromium	46.9	30	36	180
Copper	54.9	50	270	270
Lead	**552**	63	400	400
Manganese	**3180**	1600	2000	2000
Nickel	31.8	30	140	310
Zinc	1260	109	2200	10000

Drain 2	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	144	63	400	400
Zinc	373	109	2200	10000

Drain 3	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	148	63	400	400
Mercury	0.25	0.18	0.81	0.81

Zinc	267	109	2200	10000

Drain 4	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	113	63	400	400
Zinc	316	109	2200	10000

Borehole Soil Samples

Metals exceeding Unrestricted were detected in all RI soil borehole samples and only Lead in RI-BH-6, Barium in RI BH-8 and Mercury in RI-VP-3 exceeded the Restricted Residential SCOs. The RI soil samples with Metal concentrations exceeding Unrestricted and/or Restricted Residential SCOs include the following:

RI MW-3	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	144	63	400	400
Zinc	229 F1 F2	109	2200	10000

RI MW-1	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	105	63	400	400
Zinc	335	109	2200	10000

RI MW-4	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	66.4	63	400	400
Zinc	147	109	2200	10000

RI MW-4	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	76.9	63	400	400
Zinc	175	109	2200	10000

RI MW-2	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Zinc	643	109	2200	10000

RI BH-1	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Zinc	149	109	2200	10000

RI BH-2	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	119	63	400	400
Zinc	303	109	2200	10000

RI BH-3	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	291	63	400	400
Cadmium	3.0	2.5	2.5	4.3
Mercury	0.68	0.18	0.81	0.81
Zinc	1020	109	2200	10000

RI BH-4	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	155	63	400	400
Mercury	0.79	0.18	0.81	0.81
Zinc	401	109	2200	10000

RI BH-5	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Zinc	87.5	109	2200	10000

RI BH-6 (2-4')	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	**484**	63	400	400
Zinc	365	109	2200	10000

RI BH-6 (7-8')	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Zinc	996	109	2200	10000

RI BH-7	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Copper	102	50	270	270
Lead	95.9	63	400	400
Mercury	0.39	0.18	0.81	0.81
Zinc	357	109	2200	10000

RI BH-8	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Barium	**415**	350	400	400
Lead	188	63	400	400
Zinc	193	109	2200	10000

RI BH-9	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Zinc	282	109	2200	10000

RI BH-10	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Mercury	0.41	0.18	0.81	0.81
Zinc	148	109	2200	10000

RI BH-11	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Zinc	150 F1	109	2200	10000

RI BH-12	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	118	63	400	400
Mercury	0.47	0.18	0.81	0.81
Zinc	148	109	2200	10000

RI VP-1	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	68.9	63	400	400
Zinc	205 F1	109	2200	10000

RI VP-2	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Zinc	175	109	2200	10000

RI VP-3 (8-9')	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Zinc	156	109	2200	10000

RI VP-3 (2-4')	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Lead	176 F1 F2	63	400	400
Mercury	**4.5**	0.18	0.81	0.81
Zinc	177 F1 F2	109	2200	10000

RI VP-4 QA/QC	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Zinc	386	109	2200	10000

RI VP-4	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Zinc	395	109	2200	10000

Volatile Organic Compounds (VOC)

Test Trench Soil Samples

There were no RI test trench soil samples with VOC concentrations that exceeded Unrestricted and/or Restricted Residential SCOs.

Borehole Soil Samples

A summary of RI borehole soil samples with VOC concentrations exceeding Unrestricted SCOs include the following:

RI MW-1	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
Methylene Chloride	0.073 JB	0.05	51	100
Tetrachloroethene	1.8	1.3	5.5	19
Trichloroethene	1.7	0.47	10	21

4.3.2 Per- and Polyfluoroalkyl Substances (PFAS) Soil Samples

Per-and polyfluoroalkyl Substances (PFAS) were detected in several test trench and borehole soil samples, however, no concentrations exceeded the guidance level Restricted Residential or Commercial SCOs as presented in NYSDEC – Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs – April 2023 guidance document.

RI BH-1	Result (ppm)	Unrestricted SCO (ppm)	Residential SCO (ppm)	Restricted Residential SCO (ppm)
PFOS	0.0009	0.00088	0.0088	0.044

4.3.3 Soil Results Summary

The results of the RI soils investigation indicated the following:

- SVOCs compounds (primarily PAHs) and metal compounds (most notably, lead, mercury, barium, cadmium, and zinc) were detected throughout soil/fill material at variable concentrations above Restricted Residential and/or Unrestricted SCOs.
- PCBs and herbicides were “non-detect” in the test trench and borehole soil samples.
- One pesticide (4,4-DDT) was detected above Unrestricted SCOs in RI MW-2 and RI BH-7 locations.
- VOC compounds (methylene chloride, tetrachloroethylene, and trichloroethylene) were detected above Unrestricted SCOs in RI MW-1.
- The PFAS compound PFOS concentration exceeded Unrestricted SCO in RI BH-1.

Waste Characterization Data

Twelve disposal samples (D1 through D12) were also taken across the site strictly for recipient facility acceptance criteria. The results of these samples are located in **Appendix E** and do not provide any relevant information regarding contaminants of concern on-site.

4.4 Groundwater Sample Analytical Results

The following provides a summary of the results of the RI groundwater sample analytical program. Compound concentration levels detected in groundwater samples collected during the RI are compared to Class GA Groundwater Quality Standards (NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - June 1998) in the following tables and figures.

- **Table 4** – Groundwater Sample Analytical Results.
- **Figure 5b** – Groundwater Sample Analytical Results.

All groundwater samples were analyzed for TCL VOCs, SVOCs, pesticides, PCBs, and TAL metals+cyanide and Per & Polyfluoroalkyl Substances (PFAS). Due to lack of water observed in the overburden, only groundwater from bedrock monitoring wells was able to sampled.

Semi-Volatile Organic Compounds (SVOC)

SVOCs were not detected in any of the groundwater samples.

Pesticides/PCBs

PCB compounds were “non-detect” in all RI groundwater samples collected. Pesticides were detected but below TOGs guidance values.

Volatile Organic Compounds (VOCs)

VOCs were detected in the following samples above TOGS guidance values:

RI MW-3	Result (ppb)	TOGS Guidance (ppb)
Tetrachloroethylene (PCE)	12 F1	5

RI MW-3 DUP	Result (ppb)	TOGS Guidance (ppb)
Tetrachloroethylene (PCE)	11	5

RI MW-1	Result (ppb)	TOGS Guidance (ppb)
Tetrachloroethylene (PCE)	7	5

Metals

Metals were detected in all groundwater samples and one Metal compounds exceeded their TOGs guidance values as follows:

RI MW-3	Result (ppb)	TOGS Guidance (ppb)
Sodium	267000	20000

RI MW-3 DUP	Result (ppb)	TOGS Guidance (ppb)
Sodium	263000	20000

RI MW-2	Result (ppb)	TOGS Guidance (ppb)
Sodium	345000	20000

RI MW-1	Result (ppb)	TOGS Guidance (ppb)
Sodium	297000	20000

Per & Polyfluoroalkyl Substances (PFAS)

Per-and polyfluoroalkyl Substances (PFAS) were detected in all groundwater samples, with concentrations exceeding guidance values as presented in NYSDEC – Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs – April 2023 guidance document.

RI MW-3	Result (ppt)	Sampling, Analysis and Assessment of PFAS Guidance (ppt)
PFOA	16	6.7
PFOS	5.2	2.7

RI MW-2	Result (ppt)	Sampling, Analysis and Assessment of PFAS Guidance (ppt)
PFOA	21	6.7
PFOS	8.8	2.7

RI MW-3 DUP	Result (ppt)	Sampling, Analysis and Assessment of PFAS Guidance (ppt)
PFOA	16	6.7
PFOS	5.2	2.7

RI MW-1	Result (ppt)	Sampling, Analysis and Assessment of PFAS Guidance (ppt)
PFOA	42	6.7
PFOS	13	2.7

4.4.1 Groundwater Results Summary

There was no groundwater observed in the overburden on-site. All results are related to groundwater sampled from the bedrock monitoring wells. The groundwater analytical results indicate the following.

- No SVOCs, PCBs or Herbicides were detected in any of the groundwater samples collected.
- One VOC (PCE) was detected in RI MW-3 and RI MW-1 samples at concentrations exceeding TOGS guidance value of 5 ppb. PCE was also detected in RI MW-2 but below the associated TOGS value.
- No pesticide compounds were detected above TOGs guidance values.
- Several metal compounds were detected at concentrations below their TOGS guidance values apart from sodium which was detect above TOGS guidance in all groundwater samples collected.
- Per-and polyfluoroalkyl Substances (PFAS) were detected in all groundwater samples. PFOA and PFOS concentrations in all groundwater samples exceeded NYSDEC – Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs – April 2023 guidance document values.

4.5 Soil Vapor Sample Analytical Results

The following provides a summary of the results of the RI soil vapor sample analytical program. All soil vapor samples were collected in accordance with the NYSDOH Final Guidance for Evaluating Soil Vapor in The State of New York (2006) with updates (SVI Guidance)

A total of four sub-slab soil vapor samples were analyzed for TCL VOCs by EPA method TO-15 and the results are provided on **Table 3** and **Figure 5a**. New York State does not establish standards, criteria, or guidance values for contaminants in soil vapor. The NYSDOH Air Guideline Values (AGVs) pertain to indoor air, and the decision matrices are intended to be applied using paired indoor air and sub-slab vapor data to assess potential exposure to building occupants. Because only sub-slab vapor samples were collected during the RI, the decision matrices and AGVs are not directly applied here.

The following summarizes detected VOCs of interest from the TO-15 analyte list:

- **Methylene chloride** – Detected in three samples (RI VP 1, RI VP-3, and RI VP-4) with the highest concentration of 4.93 ug/m3.
- **Tetrachloroethylene** – Detected in all samples. The highest detection was 184 ug/m3 in RI VP-1 location.
- **Trichloroethene** – Detected in three samples (RI VP 1, RI VP-3, and RI VP-4).The highest detection was 155 ug/m3 in RI VP-1 location.
- **Trichlorofluoromethane (Freon-11)** – Detected in all samples, with the highest concentration at RI-VP-4 (1360 ug/m3), which was significantly greater than concentrations measured at the other sampling locations (**Table 3**).
- ***Cis*-1,2-Dichloroethene (*c*-1,2-DCE)** – Detected in one sample (RI VP-1), with a concentration of 0.642 ug/m3 versus a mitigation value of 60 ug/m3.
- **1,1-Dichloroethene (1,1-DCE)** – Not detected in any sample.
- **Carbon Tetrachloride** – Detected in three samples (RI VP-1, RI VP-3, RI VP-4) with the highest concentration of 2.54 ug/m3 versus a mitigation value of 60 ug/m3.
- **Tetrachloroethene (PCE)** – Detected in all samples, with three samples detected at a concentration that requires mitigation without the need for indoor air samples (RI VP-1, RI VP-3, RI VP-4). The highest detection was 184 ug/m3 in RI VP-1 location.
- **1,1,1-Trichloroethane (1,1,1-TCA)** – Not detected in any sample.
- **Vinyl Chloride** – Not detected in any sample.
- **Benzene** – Detected in two samples (RI VP-1 and RI VP-4), with the highest concentration of 37.1 ug/m3 versus a mitigate value of 600 ug/m3.

- **Ethylbenzene** – Detected in one sample (RI VP-4), with a concentration of 1.43 ug/m3 versus a mitigate value of 600 ug/m3.

- **Naphthalene** – Not detected in any sample.

- **Cyclohexane** – Detected in two samples (RI VP-1 and RI VP-4), with the highest concentration of 198 ug/m3 versus a mitigation value of 600 ug/m3.

- **Isooctane (2,2,4-trimethylpentane)** – Not detected in any sample.

- **1,2,4-trimethylbenzene** – Detected in one sample (RI VP-4), with a concentration of 2.36 ug/m3 versus a mitigation value of 600 ug/m3.

- **1,3,5-trimethylbenzene** – Detected in one sample (RI VP-4), with a concentration of .579 ug/m3 versus a mitigation value of 600 ug/m3.

- **o-xylene** – Detected in one sample (RI VP-4), with a concentration of 1.94 ug/m3 versus a mitigation value of 600 ug/m3.

- **m,p-xylene** – Detected in one sample (RI VP-4), with a concentration of 4.6 ug/m3 versus a mitigation value of 2000 ug/m3.

- **Heptane** – Detected in two samples (RI VP-2 and RI VP-4), with the highest concentration of 39.2 versus a mitigation value of 2000 ug/m3.

- **Hexane** – Detected in three samples (RI VP-1, RI VP-2, and RI VP-4), with the highest concentration of 258 ug/m3 versus a mitigation value of 2000 ug/m3.

- **Toluene** – Detected in one sample (RI VP-4), with a concentration of 14 ug/m3 versus a mitigation value of 3000 ug/m3.

Trichloroethene was detected at a concentration that requires mitigation without the need for indoor air samples in RI VP-1 with a concentration of 155 ug/m3.

5.0 FATE AND TRANSPORT OF CONTAMINANTS OF CONCERN

The soil, groundwater, and soil vapor sample analytical results were evaluated in conjunction with physical Site conditions to assess the fate and transport of COC in Site media. The mechanisms by which the COCs can migrate to other areas or media are briefly outlined below. Potential pathways are evaluated in the context of pre-remedial conditions, as discussed in Section 7.0

5.1 FUGITIVE DUST

Chemicals present in soil can be released to ambient air through fugitive dust generation. Currently, the majority of the Site is covered with concrete floor slabs and foundations from former structures. Fugitive dust could result from disturbance of cracked or broken slabs and dry, friable impacted surface soils.

At present, this pathway is limited by the existing hardscape cover. However, if the surface cover is disturbed, fugitive dust migration could become a more significant pathway. During potential remedial work, fugitive dust may be generated. A health and safety plan along with a community air monitoring plan will be prepared as required by the Remedial Action Work Plan (RAWP) under the BCP, which will minimize fugitive dust concerns during this period.

5.2 Surface Water

There are no surface water bodies directly on the Site. The potential for transport of impacted soil particles with surface water runoff is currently low due to the extensive building and hardscape coverage. Presently, most site runoff is collected in municipal storm water collection systems located in the streets bordering the Site. During remediation and new Development, surface water runoff/collection will be controlled through a Community and Environmental Response Plan (CERP) that will be developed and appended to the RAWP.

5.3 Volatilization

Solvent-related VOCs were detected in soil, soil vapor, and groundwater samples. The VOCs detected in the RI soil samples were at low concentrations with three compounds (TCE, PCE and Methylene Chloride) exceeding Unrestricted SCOs only in one soil sample, RI MW-1. No soil sample VOC results exceeded Restricted Residential SCOs.

PCE and TCE concentrations were also detected in soil vapor at elevated concentrations. It appears that PCE and TCE may be present in sections of former building sub-slab fill material that is most likely due to historical former on-site leather manufacturing operations, which may have released contaminants through deteriorated floor slabs to the bedding and shallow fill material. Based on the groundwater sample results, low levels of PCE and TCE has reached bedrock groundwater which is at a depth of + 21 feet bgs. Bedrock depth was variable but on average was observed at approximately 10 feet bgs.

Impacted fill material may be excavated and exposed during remediation which may create a pathway for volatiles to reach outside air. During this time, VOC monitoring will be undertaken utilizing an RKI GX 6000, 11.7 eV photoionization detector (PID) and perimeter air monitors in accordance with the requirements of a site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) included in the RAWP.

5.4 Leaching

Leaching refers to contaminants in soil migrating into groundwater due to infiltration of precipitation. As noted above, solvent related VOCs were detected in soils, soil vapor, and groundwater beneath remaining floor slabs and into the subsurface. Based on the results of the RI, VOC contaminants have leached from the soil through bedrock into the groundwater. Depth to groundwater is greater than 21.3 feet bgs and bedrock exists at an average depth of 10 feet bgs.

Both SVOCs (PAHs) and metals were detected in the site fill soils, however, these compounds are not very mobile in soils, in that they have low solubility with water and tend to adsorb to the soil grains. These compounds do not readily breakdown in the environment and PAHs deposited from combustion of coal or other fuels years ago would most likely still be present today. Also, no SVOCs were detected in the groundwater samples.

One metal, sodium, was detected in the groundwater samples at concentrations above TOGs guidance values. While sodium is known to exist naturally in the groundwater and may be produced from natural weathering of rock and soil, the observed elevated levels at the site may be attributed to the heavy use of rock salt in the area.

PFAS compounds (PFOS and PFOA) were detected in the groundwater samples in exceedance of NYSDEC PART 375 Guidance values. The highest concentration was detected in the upgradient RI MW-1 sample indicating the source may be offsite. A historic dry cleaner was noted on Sanborn Maps from 1950 to 1970 at a location approximately 100 feet to the north of the Site. Historically, in the 1950's, PFAS chemicals were manufactured to replace PCE based systems in dry cleaners. It is possible that this nearby historic use has impacted the groundwater and migrated to the site.

The off-site upgradient dry cleaner related investigation did reveal some PCE detections that were lower than the on-site detections. However, PFAS was found to be higher in the same off-site location. Therefore, there may have been some contribution on site from the off-site dry cleaner but the on-site PCE contamination may have also been from the former leather manufacturing operations on the Site.

5.5 Groundwater Transport

No SVOCs or pesticides/PCBs were detected in the groundwater above TOGs guidelines. One metal, sodium, was detected in the groundwater samples at concentrations above TOGs guidance values. Metallic mineral compounds in groundwater are common under natural conditions and New York State is known to contain Balmat zinc deposits which may affect the water quality. PCE was detected in groundwater monitoring wells at concentrations slightly exceeding TOGS guidance values, while PFOA and PFOS were detected at concentrations above NYSDEC Part 375 guidance values.

Since the Site and surrounding area are serviced by municipal water, which will also be used for the new development, significant exposure to any chemicals in the groundwater are minimal at this site.

5.6 Exposure Pathway Summary

Under current site conditions, the pathways through which COCs could reach receptors at significant exposure concentrations are limited. The most potentially complete pathways include fugitive dust generation if the existing hardscape cover is disturbed (i.e., during remediation), which could trigger volatilization of VOCs from impacted subsurface materials, and leaching of VOCs and PFAS compounds to groundwater.

6.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

Qualitative Human Health Exposure Assessment was completed to evaluate the pathways, intensity, frequency, and duration of actual or potential human exposures to COCs under current and reasonably anticipated future conditions, both on-site and off-site. The assessments were completed in accordance with DER-10 Sections 3.14(c)(17) and 3.3(c)(4) and NYSDOH Qualitative Human Health Exposure Assessment (**Appendix B**).

- In accordance with DER-10 Appendix 3B, the five elements of an exposure pathway were evaluated for this Site. The five elements of an exposure pathway were evaluated as follows:
- source – contaminated fill, soil, groundwater, and soil vapor containing VOCs, SVOCs, metals, and PFAS from historical industrial use;
- media/transport – soil, groundwater, and vapor with potential migration via groundwater flow, vapor migration, or soil disturbance;
- points of exposure – on-site soils, indoor air, and groundwater (if accessed);
- routes of exposure – incidental ingestion, dermal contact, and inhalation; and
- receptors – current workers and potential future occupants on-site, and nearby off-site populations.

On-Site Soil Results Summary

The results of the RI soils investigation indicated that several SVOCs compounds (primarily PAHs) and metal compounds (most notably zinc, lead, mercury, barium, and cadmium) were detected throughout soil/fill material at variable concentrations above Restricted Residential and/or Unrestricted SCOs. VOCs (methylene chloride, PCE, and TCE), one pesticide (4,4'-DDT) and PFOS were detected in site soils above Unrestricted SCOs.

No PCBs, herbicides or cyanide were detected in site soils.

On-Site Groundwater Results Summary

The bedrock groundwater analytical results indicate concentrations of VOCs (PCE and TCE) and one metal (sodium) above TOGS guidance values. PFOA and PFOS were also detected above guidance values as presented in NYSDEC – Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs – April 2023 guidance document.

No SVOCs, PCBs, or herbicides were detected in site groundwater samples.

On Site Soil Vapor Results Summary

The following provides a summary of the results of the RI soil vapor sample analytical program. All sub-slab vapor and soil vapor samples were collected in accordance with the NYSDOH Final Guidance for Evaluating Soil Vapor in The State of New York (2006) with updates (SVI Guidance). A total of four subsurface vapor samples were analyzed for TCL VOCs by EPA method TO-15. The results were compared to the three VOC guidance values referenced in the above guidance document. Even though other CVOCs and Petroleum related VOCs were detected, the most significant analytical results for the TO-15 list of VOCs are as follows:

- **Tetrachloroethylene** – Detected in all samples. The highest detection was 184 ug/m3 in

RI VP-1 location.

Trichloroethene – Detected in three samples (RI VP 1, RI VP-3, and RI VP-4). The highest detection was 155 ug/m3 in RI VP-1 location.

During the May 2025 off-site investigation, a bedrock monitoring well and two vapor points were installed to investigate the potential impact of an upgradient off-site historic dry cleaner identified in Sanborn Maps from the 1950's to the 1970's. Concentrations of COCs, primarily PCE, TCE, and PFAS, were identified, with the CVOCs below those found on-site and the PFAS substances higher than the on-site concentrations. The maximum concentrations of these contaminants of concern (COCs) found on-site versus off-site in the upgradient northern parking lot in groundwater and soil vapor were as follows:

Bedrock Groundwater Wells

Contaminant of Concern	Maximum On-Site	Maximum Off-Site
Tetrachloroethene	12 ppb (RI-MW-3)	4.6 ppb (OW-1)
Trichloroethene	ND	2.2 ppb (OW-1)
PFOA	42 ppt (RI-MW-1)	49 ppt (OW-1)
PFOS	13 ppt (RI-MW-1)	16 ppt (OW-1)

Note: Only results from the 5/30/2025 resampling event of the off-site well (OW-1) are considered for maximum concentrations as the well was not considered adequately developed during the initial round of sampling.

Vapor Points

Contaminant of Concern	Maximum On-Site	Maximum Off-Site Upgradient
Tetrachloroethene	184 ug/m3 (RI-VP-1)	51 ug/m3 (Off Site RI-VP-2)
Trichloroethene	155 ug/m3 (RI-VP-1)	8.5 ug/m3 (Off Site RI-VP-2)

The results of the off-site investigation indicate that the historic dry cleaner may have contributed to some contamination on the Site since the PFAS contamination off-site is higher than the on-site contamination, but since the on-site CVOC exceedances are higher onsite it is equally plausible that the on-site contamination is from former on-site leather manufacturing operations.

Additionally, there was an off-site vapor point installed in the downgradient southern parking lot adjacent to the Site. The concentrations of COCs were as follows:

Contaminant of Concern	Off-Site RI-VP-1 Downgradient
Tetrachloroethene	51 ug/m3
Trichloroethene	ND

Based on a comparison of the on-site vapor points and the location of the off-site RI-VP-1 in a downgradient location from the BCP site, there is a low possibility that COCs are migrating off of the BCP site.

6.1 Human Exposure Risks

Surficial soils: The Site is unoccupied, and the majority covered with concrete slabs/foundations from removed superstructures. Therefore, human exposure to these soils is minimal except for potential windblown dust from loose material and possible nominal erosion.

Soil vapor: PCE and TCE, as well as several other VOCs were detected in all soil vapor samples collected. PCE and TCE concentrations were detected at elevated concentrations in vapor samples RI VP-1, RI VP-3, and RI VP-4. These samples were collected 4 to 7.2 ft bgs beneath concrete floor slabs in the subsurface fill material. With the Site unoccupied, the direct exposure pathway is very minimal.

Groundwater: The RI indicates that groundwater is at depth (>21.3 feet bgs) at the site and bedrock exists at an average depth of 10 feet bgs across the Site. No overburden groundwater was observed. PCE, PFOA and PFOS compounds were detected above TOGs/PART 375 guidance values. In addition, sodium was found to be elevated potentially due to naturally occurring sodium mineral deposits. The Site is currently on municipal water supply as will the new development, thereby eliminating any future direct human exposure via groundwater.

The Site in its present condition provides minimum human exposure risks as related to COCs in the Site soils and groundwater. Human exposure to soil vapors will be assessed under the final remedy. As part of the new development, a passive SSDS will be incorporated into the proposed new building regardless of the anticipated remedial alternative. The system will be activated if the post construction soil vapor evaluation deems it necessary.

During Site remediation, which will include removing deteriorated concrete slabs in order to enable removing impacted soils thereunder. in addition to source removal, workers can be exposed. However, all ground-intrusive activities will be conducted in accordance with a Site-specific HASP and a CAMP. Implementation of the HASP will prevent worker exposure. CAMP data will be submitted to NYSDEC and NYSDOH on at least a weekly basis during ground-intrusive work, and any exceedances of CAMP action levels, along with corrective measures taken, will be reported to the Departments within 24 hours. If exceedances are documented, work must cease until the dust or VOC exposure pathway is mitigated. These measures, combined with HASP protocols, will minimize exposure risks to construction workers and the surrounding community during remediation activities.

Under post remediation conditions, the site will be safe for reuse because the source of soil contamination will be remediated and the soil vapor exposure pathway will be mitigated either through the soil vapor evaluation which will determine if active soil vapor mitigation is required or by an active SSDS engineering control if deemed necessary.

6.2 Ecological Exposure Risks

The property in its current condition is not a habitat to wildlife. Site erosion is minimal as nearly all of the site consists of remaining building floor slabs and other hardscape. Surface run-off flows off-site to the surrounding street stormwater collection system.

The DER-10 Appendix 3C Fish and Wildlife resources Impact Analysis (FWRIA) Decision Key is provided in **Appendix F**. Based on the completed decision key process; further information is needed based on Section 3.10.1 of DER-10. Based on available NYSDEC documents, the site is

in the vicinity of Calcareous talus slope woodland and Calcareous cliff community and is in the vicinity of rare freshwater mussels not listed by NYS. The Site does not have a habitat of an endangered, threatened or special concern species. Therefore, no unacceptable ecological risks are anticipated.

Any future intrusive work will be conducted in accordance with a Health and Safety Plan (HASP) and a Community Air Monitoring Plan (CAMP). CAMP reports will be submitted to NYSDEC and NYSDOH on at least a weekly basis while ground-intrusive activities are ongoing. Exceedances of CAMP action levels and any corrective measures taken will be reported to the Departments within 24 hours of occurrence.

7.0 REMEDIAL ALTERNATIVES ANALYSIS

7.1 Remedial Action Objectives

The final remedial measures for the Site must satisfy Remedial Action Objectives (RAOs), which are site-specific statements that convey the goals for minimizing or eliminating substantial risks to human health and the environment. The primary RAOs identified for the Site are the following:

Soil

Human Health Protection RAOs

- Prevent ingestion or direct contact with contaminated soil.
- Prevent inhalation exposure to contaminants volatilizing from soil.

Environmental Protection RAOs

- Prevent migration of contaminants in Site soil to surrounding areas that could result in groundwater or surface water contamination.

Soil Vapor

Human Health Protection RAOs

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

Groundwater

Human Health Protection RAOs

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

Environmental Protection RAOs

- Remove the source of groundwater contamination

The off-site data collected during the Supplemental RIWP suggested that it is possible there is some contribution of off-site contamination on to the site, such as PFAS which was higher off-site than on-site, the on-site CVOC contamination was slightly higher on-site than off-site. As a result, the primary source of the low-level on-site soil and groundwater contamination may just as well be the result of the historical leather goods manufacturer located on-site. Operations of this nature are known to have utilized degreasers, such as TCE and PCE, and PFAS containing products during finishing. These source materials will be mitigated through excavation and removal of impacted fill/soils and USTs. See section 7.4.

7.2 Alternatives Selection Factors

In addition to achieving RAOs, NYSDEC's BCP requires an evaluation of remedial alternatives in accordance with 6 NYCRR Part 375-3 and DER-10 Technical Guidance for Site Investigation and Remediation. This alternatives analyses evaluates the remedial options developed for the site against the following selection factors:

1. **Overall Protection of Public Health and the Environment**. This criterion evaluates a remedy's ability to achieve the public health and environmental RAOs through the assessment of existing and potential exposure pathways to be eliminated, reduced, or mitigated through removal, treatment, or engineering/institutional controls (ECs/ICs).
2. **Compliance with Standards, Criteria, and Guidance (SCGs)**. This criterion addresses whether a remedy will meet applicable environmental regulations, standards, and guidance. The SCGs applicable to this site are listed in Section 1.2.
3. **Long-Term Effectiveness and Permanence**. This criterion evaluates the long-term effectiveness and permanence of an alternative or remedy after implementation.
4. **Reduction of Toxicity, Mobility or Volume with Treatment**. This criterion evaluates the remedy's ability to reduce the toxicity, mobility, or volume of Site contamination through treatment. Preference is given to remedies that permanently and significantly reduce the toxicity, mobility, or volume of the contamination at the Site.
5. **Short-Term Effectiveness**. This criterion evaluates the potential short-term impacts to human health and the environment during remediation, including control measures of adverse conditions and their effectiveness (e.g., stormwater controls, dust controls, etc.). The length of time needed to achieve the RAOs, and sustainability is also evaluated.
6. **Implementability**. This criterion evaluates the technical and administrative feasibility of implementing the remedy including the difficulties associated with construction and monitoring the effectiveness of the remedy. The availability of labor, equipment, and material is evaluated in addition to operational approvals, logistics, permitting, etc.
7. **Cost**. This criterion evaluates the overall cost effectiveness of an alternative.
8. **Community Acceptance**. This criterion evaluates the public's comments, concerns, and overall perception of the alternative.

7.3 Land Use Evaluation

In developing and screening remedial alternatives that are achieving an Unrestricted Use cleanup, NYSDEC's Part 375 regulations require that the reasonableness of the anticipated future land use be factored into the evaluation. The re-development of the former commercial operations at the site will be for mixed use including a new building with commercial office space on the ground floor and residential units on the upper 5 floors.

7.4 Selection of Alternatives for Evaluation

The results of the RI and previous environmental assessments indicate the following:

- Soils (mostly fill) beneath concrete floor slabs were found to contain SVOC (PAHs) and metal compounds in concentrations that exceed Part 375 Unrestricted Use SCOs. One RI soil sample also contained three VOC solvent compounds with concentrations that slightly exceeded Unrestricted Use SCOs.
- One abandoned UST in the northwest corner of the site was uncovered during the RI that will require removal/closure in accordance with DER-10 -Section 5.5 – Underground

Storage Tank closure.
- Groundwater samples indicated PCE concentrations above TOGs guidance and PFOS and PFOA concentrations above PART 375 guidance.
- Sub-slab soil vapors containing the VOCs, PCE and TCE have been identified beneath exposed building concrete slabs that exceed the NYSDOH Vapor Intrusion Guidance values.

Given the investigation results listed above, the following two remedial alternatives have been selected for evaluation:

1. Alternative 1 – Track 4: NYSDEC Restricted Residential Use
2. Alternative 2 – Conditional Track 1: NYSDEC Unrestricted Use

7.4.1 Alternative 1 – Track 4: Restricted Residential Use

Alternative 1 is a Track 4 cleanup that relies on impacted soil removal and cover system. The Alternative 1 remediation is based on the surface features of the planned development which is depicted on **Figure 9**. The details of this alternative include:

1 – Concrete slabs and other hardscape are to be removed within the BCP boundary to accommodate new development. The top two feet of surface soils beneath the removed slabs or in the remaining open areas that are not otherwise to be covered by components of the new development (e.g. buildings, pavement) shall not exceed Restricted Residential SCOs. All removed impacted soils, building materials and hardscape will be disposed offsite at an approved disposal and/or recycling facility. All intrusive work will be performed in accordance with a site-specific HASP and CAMP. CAMP data will be submitted to NYSDEC and NYSDOH on at least a weekly basis during ground-intrusive activities, and any exceedances of CAMP action levels and corrective measures taken will be reported to the Departments within 24 hours.

2 –Future greenspace areas of the Site will be backfilled with a minimum of two foot of clean fill. One foot of hardscape (concrete sidewalks, asphalt parking, building foundations) and subbase will be placed over the remainder of the Site to meet new development requirements all in accordance with Part 375-3.8 Track 4 - Part 375-6.8 Restricted Residential SCOs. Backfill will be imported clean fill material that meets the requirements of DER-10 Table 5.4(e)10 and DER-10 Appendix 5-Allowable Constituent Levels.

3 - One abandoned UST in the northwest corner of the Site will be uncovered and removed along with any impacted soil exceeding Restricted Residential SCOs. Removal/closure will be in accordance with DER-10 -Section 5.5 – Underground Storage Tank closure. CAMP and HASP protocols will be implemented during this work with reporting per the requirements above.

4 – After to the construction of the building as part of the new development, when the lower level is enclosed with an active HVAC system, an SVI investigation will be performed during the heating season to assess for potential soil vapor intrusion concerns. A sub-slab depressurization system (SSDS) will be installed prior to construction. If the System has to be activated based on the SVI investigation, effectiveness will be verified prior to future occupancy.

5 - This alternative also includes provisions for managing the Site upon completion of remediation through implementation of an Environmental Easement (EE) with Institutional Controls (ICs) and Engineering Controls (ECs) as follows:

Imposition of an IC in the form of an environmental easement for the controlled property that:

- Requires the remedial party or site owner to complete and submit to the NYSDEC a periodic certification of IC/EC in accordance with NYSDEC Part 375-1.8(h)(3);
- Allows the use and development of the controlled property for restricted residential and commercial, as defined by Part 375-1.8(g)., although land use is subject to local zoning laws;
- Restricts the use of Groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
- Monitoring of sub-slab vapor extraction, if required, for a set period of time; and
- Requires compliance with the approved Site Management Plan.

A Site Management Plan (SMP) is required that includes the following:

- An IC/EC plan that identifies all use restrictions and ECs for the Site and details the steps and media specific requirements necessary to ensure the IC and/or ECs remain in place and effective. The ICs are as discussed above, and the EC's include developed soil cover system and groundwater monitoring;
- An Excavation Plan which details provisions for management of future excavations in areas of remaining contamination;
- A monitoring plan for the vapor mitigation systems;
- A monitoring plan for bedrock monitoring wells to ensure natural attenuation of target VOC site contamination;
- Descriptions of the provisions of the environmental easement including any land use or groundwater use restrictions;
- Provisions for the management and inspection of the identified ECs;
- Maintaining site access controls and NYSDEC notifications; and,
- The steps necessary for the periodic reviews and certifications of the IC/ECs.

Overall Protection of Public Health and the Environment – Alternative 1 is protective of human health and the environment with: the removal of existing concrete slab foundations in addition to the removal of a minimum of one foot of impacted soil and backfilling with two feet of clean soil or hardscape; the removal of an abandoned UST and associated impacted soil; and the mitigation of potential soil vapors through the installation of a passive SSDS in the proposed new building construction. These actions will eliminate the primary source material above bedrock, allowing residual groundwater contamination to naturally attenuate over time.

The clean soil and hardscape covered areas will be incorporated into the SMP as an engineering control for the Site and Institutional and engineering controls will be implemented to prevent more restrictive forms of future site use (e.g., unrestricted, residential) and restrict any use of the groundwater at the Site. Under ICs/ECs SSDS will be monitored and the cover system will be inspected, monitored and maintained. The SMP Excavation Work Plan will apply to any future disturbance of soils beneath the cover system. The SMP also requires the implementation of an approved health and safety plan for all future work.

Compliance with SCGs – Alternative 1 is a Part 375 track 4 remedy with some soils exceeding the Restricted Residential SCOs remaining below an approved cover system. The installation of SSDS in the new building will mitigate the potential for soil vapor intrusion. The existing abandoned UST will be removed to meet regulatory closure requirements.

Long-Term Effectiveness and Permanence – The removal of the impacted fill soils and UST to meet Restricted Residential SCOs and backfilling with clean fill and hardscape meets the RAOs for soil in this area. The installation of SSDS in the building with ongoing monitoring through the SMP will meet the RAOs for soil vapor. There will be a restriction on the use of groundwater at the Site.

The SMP requires periodic inspection and monitoring of the cover system for the Site to assure its integrity and the SMP excavation work plan will apply to any future disturbance of the remaining impacted soils including the requirement to prepare an approved health and safety plan for all work.

Reduction of Toxicity, Mobility, or Volume with Treatment – The remedial measure will either permanently or significantly reduce the mobility of contamination in the soils at the Site through the cover systems and UST removal. The volume of impacted soil will be reduced at the property by excavation and offsite disposal of the top two (2) feet of impacted soils across open areas and one foot in areas to be hardscaped. The volatilization from impacted soils remaining below the proposed new building will be treated by the SSDS installed beneath the building.

The SMP will include: an excavation work plan to address any impacted soil/fill encountered during future development and/or maintenance activities and include a site-wide Inspection program to assure that the ICs/ECs placed on the Site have not been altered and remain effective. This alternative will not, however, reduce the toxicity of the soil contaminants left in place upon completion of the remedial measure. Therefore, this alternative partially satisfies this criterion.

Short-Term Effectiveness – Potential short-term adverse impacts and human exposures may occur during construction (remediation and new development). However, any adverse impacts should be minimal. A Remedial Action Work Plan (RAWP) will be implemented prior to remediation which will require the contractor to prepare and implement a site-specific health and Safety plan to cover all workers. A CAMP will be implemented during all ground-intrusive activities, with weekly reporting to NYSDEC and NYSDOH, and 24-hour notification for any action level exceedances and corrective actions taken.

The SSDS to be installed in the new building will adhere to the remedial objective for this media of protection of public health by eliminating the potential for soil vapor intrusion into the building. Periodic inspections of the cover system per the SMP requirements will prevent ingestion/direct contact with contaminated soil and prevent inhalation of contaminants in soil that may remain below the cover system. This alternative is sustainable through the environmental easement and the implementation of the SMP.

Implementability – There are no implementation issues related to the proposed remediation or related to the Institutional and Engineering Controls placed on the Site under this alternative.

Community Acceptance – Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets, public comment periods on documents and other planned Citizen Participation activities. Public comments indicate overall project approval but have expressed concerns about work surrounding the adjacent historic church. Precautions during demolition were taken to ensure the safety of adjacent properties and structures.

Cost – The values used in estimating alternatives are order-of-magnitude estimates for comparing alternatives and are not meant to be a specific remedial criterion. The estimated cost for this Alternative is $1.28 million. The cost summary for this alternative is provided in **Appendix G.**

7.4.2 Alternative 2 – Conditional Track 1: Unrestricted Use

The details of this alternative include:

- An Unrestricted Use alternative would necessitate removal of all soil/fill across the Site where soil concentrations exceed the Unrestricted SCOs or to bedrock whichever is shallower. Based on RI results, exceedances of Unrestricted Use SCOs were identified in shallow soils and fill materials at RI MW-1 when this well location was installed and select borings within the central and northern portions of the Site, primarily for SVOCs and metals. Based on RI data it is estimated that this would require soil removal to a depth of approximately seven (7) feet (approximate fill and natural soil or bedrock interface) across the entire Site, with localized deeper excavation as required where exceedances are encountered. The proposed excavation footprint would therefore encompass the entire BCP site boundary, with removal extending laterally across open areas and beneath former slab/foundation footprints. The estimated volume of soil required to be removed for this remedy would be 12,480 cubic yards**.** The removal of impacted soil will include the removal of all existing building slabs and hardscape areas and backfill all areas with clean soil to meet new development grades. Approximately 2,340 tons of existing slab and subbase would be removed in order to implement the remedy. The anticipated surface features of the new development and remedial plan are depicted on **Figure 9**. Refer to **Appendix H** for site civil plans. Confirmation soil sampling would be conducted to verify compliance with Unrestricted SCOs prior to placement of the clean fill.

- Groundwater impacts, including solvent-related VOCs and PFAS compounds (PFOA and PFOS), have been documented in bedrock monitoring wells RI MW-1, MW-2, and MW-3, with detections above TOGS and Part 375 standards. These impacts are attributed to possible historical releases from former leather manufacturing operations possibly some contribution from off-site sources. By removing the overlying contaminated fill and sub-slab material to bedrock, the principal source of groundwater contamination will be eliminated, enabling natural attenuation of residual groundwater impacts. Post soil removal groundwater monitoring will be implemented to document that natural attenuation is occurring, which should be able to be documented within less than 5 years post Certificate of Completion. Soil vapor impacts are expected to be addressed through the removal of impacted soils and the eventual cleanup of Site groundwater. All intrusive work will be performed in accordance with an approved HASP and CAMP. CAMP results will be submitted weekly to NYSDEC and NYSDOH during intrusive activities, with exceedance notifications and corrective action reports provided within 24 hours.

- The UST would be closed in accordance with applicable NYSDEC regulations. However, unlike Alternative 1, the site would be remediated to achieve Unrestricted SCOs rather than Restricted Residential SCOs at a greater cost with longer short-term impacts.

- Assuming that the groundwater and soil vapor impacts are not resolved prior to Certificate of Completion, the conditional Track 1 remedy would include an EE and SMP for post remediation monitoring of contaminants in the groundwater and soil vapor on a quarterly basis for the first year following remediation and post construction SVI Investigation once the lowest level of the building is enclosed with active HVAC. At that time an assessment will be conducted regarding the condition of both media and the need for further monitoring or treatment. A passive SSDS will be installed as a green remediation precautionary measure in the event the SSDS needs to be activated. Soil vapor will be addressed through the complete removal of impacted Site soils followed by the placement of clean soil and the monitored natural attenuation and treatment (if required) of Site groundwater for five years. It should also be noted that if parcel occupancy occurs prior to meeting Unrestricted Site conditions, soil vapor contamination will be addressed through the activation and operation of an SSDS in the new building which will protect human health during the conditional period.

- Should Unrestricted Use conditions not be met at the Site over a 5-year conditional period for groundwater and soil vapor, only a Track 2 Residential Use cleanup track would be achieved even though the soil met Unrestricted SCOs because the Site would still be subject to Site use restrictions due to the remaining groundwater contamination and associated soil vapor.

Overall Protection of Public Health and the Environment – The Unrestricted Use alternative would achieve the corresponding Part 375 SCOs, which are designed to be protective of human health under any reuse scenario. At this Site, the primary source of groundwater contamination is soil containing low level VOCs associated with historic industrial operations or possible contribution of an off-site drycleaner. Under Alternative 2, this source will be mitigated through complete removal of all soil and fill exceeding Unrestricted Use SCOs or down to bedrock, along with removal of the abandoned UST and any associated impacted soils that may be identified under the UST. This removal will eliminate the source material contributing to groundwater impacts, enabling natural attenuation to restore groundwater quality over time.

Compliance with SCGs – Alternative 2 meets Part 375 1.8(g)(1)(i) for having the entire Site for Unrestricted Use and meet the RAOs for the Site.

Long-Term Effectiveness and Permanence – Long term effectiveness will be met by removal of the UST and all impacted soil from the Site that exceeds Unrestricted Use SCOs and backfilling with clean soil or hardscape.

Reduction of Toxicity, Mobility, or Volume with Treatment – The remedial measure will either permanently or significantly reduce the mobility of contamination in the soils at the Site by removal of all impacted soil that exceeds Unrestricted Use SCOs and backfilling with clean soil or hardscape.

Short-Term Effectiveness – Potential short-term adverse impacts and human exposures may occur during construction (remediation and new development). Adverse impacts will be greater in the short term than alternative 1 as a result of the added time to remove all impacted soils exceeding Unrestricted SCOs. A Remedial Action Work Plan (RAWP) will be implemented prior to remediation which will require the contractor to prepare and implement a site-specific health and Safety plan to cover all workers. A CAMP will be implemented during all ground-intrusive activities, with weekly reporting to NYSDEC and NYSDOH, and 24-hour notification for any action level exceedances and corrective actions taken.

Implementability – Technical implementability of the Unrestricted Use alternative would be slightly more difficult compared to alternative 1 as a result of having to remove a greater amount of soil from the Site.

Community Acceptance – Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets, public comment periods on documents and other planned Citizen Participation activities. Public comments indicate overall project approval but have expressed concerns about work surrounding the adjacent historic church. Precautions during demolition were taken to ensure the safety of adjacent properties and structures.

Cost – The values used in estimating alternatives are order-of-magnitude estimates for comparing alternatives and are not meant to be a specific remedial criterion. The estimated cost for this Alternative is $2.62 Million. The cost summary for this alternative is provided in **Appendix G.**

7.5 Recommended Remedial Alternative

Based on the alternatives' evaluation Alternative 2 satisfies the remedial action objectives and is fully protective of human health and the environment and would be acceptable to the community.

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 Remedial Investigation

The RI tasks were completed in accordance with a defined scope of work and approved RIWP. The following provides a summary of the investigation activities:

- A geophysical survey was conducted in the area identified by past ESAs as UST locations;
- Assessment of fill/native soil material by installing 20 soil borings and 1 test trench across the Site and collecting a total of 24 soil samples;
- Assessment of groundwater conditions by installing four (4) on-site groundwater monitoring wells in soil boring locations (three into bedrock and one in the overburden) and collecting a total of four (4) groundwater samples including a duplicate sample of RI MW-3;
- Performed laboratory analysis on all soil/water samples. Analysis included Part 375 metals (including hexavalent chromium), TCL VOCs plus TICs, TCL SVOCs plus TICs, pesticides/PCBs, herbicides (silvex), total cyanide, and 1,4-Dioxane/PFAS compounds;
- Assessment of sub-slab soil vapor intrusion by collecting four (4) subsurface soil vapor samples. Performed laboratory analysis on all air samples for TO-15 VOCs.

Soil Results Summary

The results of the RI soils investigation indicated that several SVOCs compounds (primarily PAHs) and metal compounds (most notably zinc, lead, mercury, barium, and cadmium) were detected throughout soil/fill material at variable concentrations above Restricted Residential and/or Unrestricted SCOs. VOCs (methylene chloride, PCE, and TCE), one pesticide (4,4'-DDT) and PFOS were detected in site soils above Unrestricted SCOs.

No PCBs, herbicides or cyanide were detected in site soils.

Groundwater Results Summary

The groundwater analytical results indicate concentrations of VOCs (PCE and TCE) and one metal (sodium) above TOGS guidance values. PFOA and PFOS were also detected above guidance values as presented in NYSDEC – Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs – April 2023 guidance document.

No SVOCs, PCBs, or herbicides were detected in site groundwater samples.

Soil Vapor Results Summary

The following provides a summary of the results of the RI soil vapor sample analytical program. All sub-slab vapor and soil vapor samples were collected in accordance with the NYSDOH Final Guidance for Evaluating Soil Vapor in The State of New York (2006) with updates (SVI Guidance). A total of four subsurface vapor samples were analyzed for TCL VOCs by EPA method TO-15.. While other CVOC and petroleum related contaminants were identified compared to the three VOCs guidance values from the TO-15 list of VOCs, the most notable concentrations are as follows:

- **Tetrachloroethylene** – Detected in all samples. The highest detection was 184 ug/m3 in RI VP-1 location.

  Trichloroethene – Detected in three samples (RI VP 1, RI VP-3, and RI VP-4). The highest detection was 155 ug/m3 in RI VP-1 location.

8.2 ALTERNATIVES ASSESSMENT

Based on the alternative's analysis evaluation, Alternative 2 – Conditional Track 1 Unrestricted Use remediation satisfies the remedial action objectives and is fully protective of human health and the environment. Therefore, Alternative 2 is the recommended final remedy for the Site.

Alternative 2 is a Conditional Track 1 cleanup that relies on the removal of all impacted soils exceeding Unrestricted SCOs and monitored natural attenuation and potential treatment of impacted groundwater. The Alternative 2 remediation and anticipated site surface features are depicted on **Figure 10**. The details of this alternative include:

- An Unrestricted Use alternative would necessitate removal of all soil/fill across the Site where soil concentrations exceed the Unrestricted SCOs or to bedrock whichever is shallower. Based on RI results, exceedances of Unrestricted Use SCOs were identified in shallow soils and fill materials at RI MW-1 when this well location was installed and select borings within the central and northern portions of the Site, primarily for SVOCs and metals. Based on RI data it is estimated that this would require soil removal to a depth of approximately seven (7) feet (approximate fill and natural soil or bedrock interface) across the entire Site, with localized deeper excavation as required where exceedances are encountered. The proposed excavation footprint would therefore encompass the entire BCP site boundary, with removal extending laterally across open areas and beneath former slab/foundation footprints. The estimated volume of soil required to be removed for this remedy would be 12,480 cubic yards. The removal of impacted soil will include the removal of all existing building slabs and hardscape areas and backfill all areas with clean soil to meet new development grades. Approximately 2,340 tons of existing slab and subbase would be removed in order to

implement the remedy. The anticipated surface features of the new development and remedial plan are depicted on **Figure 10**. Refer to **Appendix H** for site civil plans. Confirmation soil sampling would be conducted to verify compliance with Unrestricted SCOs prior to placement of the clean fill.

- Groundwater impacts, including solvent-related VOCs and PFAS compounds (PFOA and PFOS), have been documented in bedrock monitoring wells RI MW-1, MW-2, and MW-3, with detections above TOGS and Part 375 standards. These impacts are attributed to possible historical releases from former leather manufacturing operations possibly some contribution from off-site sources. By removing the overlying contaminated fill and sub-slab material to bedrock, the principal source of groundwater contamination will be eliminated, enabling natural attenuation of residual groundwater impacts. Post soil removal groundwater monitoring will be implemented to document that natural attenuation is occurring, which should be able to be documented within less than 5 years post Certificate of Completion. Soil vapor impacts are expected to be addressed through the removal of impacted soils and the eventual cleanup of Site groundwater. All intrusive work will be performed in accordance with an approved HASP and CAMP. CAMP results will be submitted weekly to NYSDEC and NYSDOH during intrusive activities, with exceedance notifications and corrective action reports provided within 24 hours.

- The UST would be closed in accordance with applicable NYSDEC regulations. However, unlike Alternative 1, the site would be remediated to achieve Unrestricted SCOs rather than Restricted Residential SCOs at a greater cost with longer short-term impacts.

- Assuming that the groundwater and soil vapor impacts are not resolved prior to Certificate of Completion, the conditional Track 1 remedy would include an EE and SMP for post remediation monitoring of contaminants in the groundwater and soil vapor on a quarterly basis for the first year following remediation and post construction SVI Investigation once the lowest level of the building is enclosed with active HVAC. At that time an assessment will be conducted regarding the condition of both media and the need for further monitoring or treatment. A passive SSDS will be installed as a green remediation precautionary measure in the event the SSDS needs to be activated. Soil vapor will be addressed through the complete removal of impacted Site soils followed by the placement of clean soil and the monitored natural attenuation and treatment (if required) of Site groundwater for five years. It should also be noted that if parcel occupancy occurs prior to meeting Unrestricted Site conditions, soil vapor contamination will be addressed through the activation and operation of an SSDS in the new building which will protect human health during the conditional period.

- Should Unrestricted Use conditions not be met at the Site over a 5-year conditional period for groundwater and soil vapor, only a Track 2 Residential Use cleanup track would be achieved even though the soil met Unrestricted SCOs because the Site would still be subject to Site use restrictions due to the remaining groundwater contamination and associated soil vapor.

FIGURES

Figure 1: Site Location

333 1st Street
Niagara Falls, NY 14303

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Prepared For: Community Services
Seventh Housing

Date: December 15, 2024

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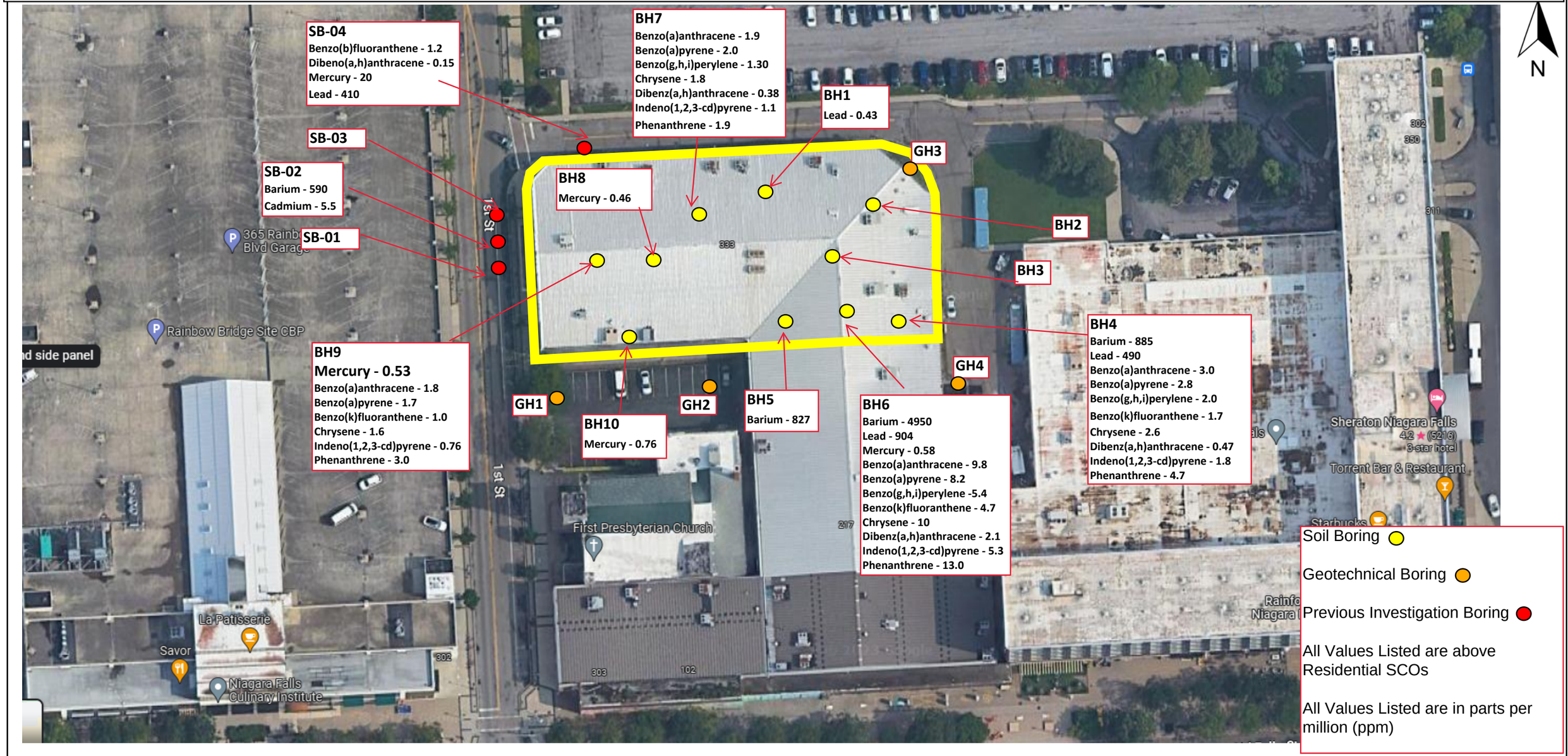
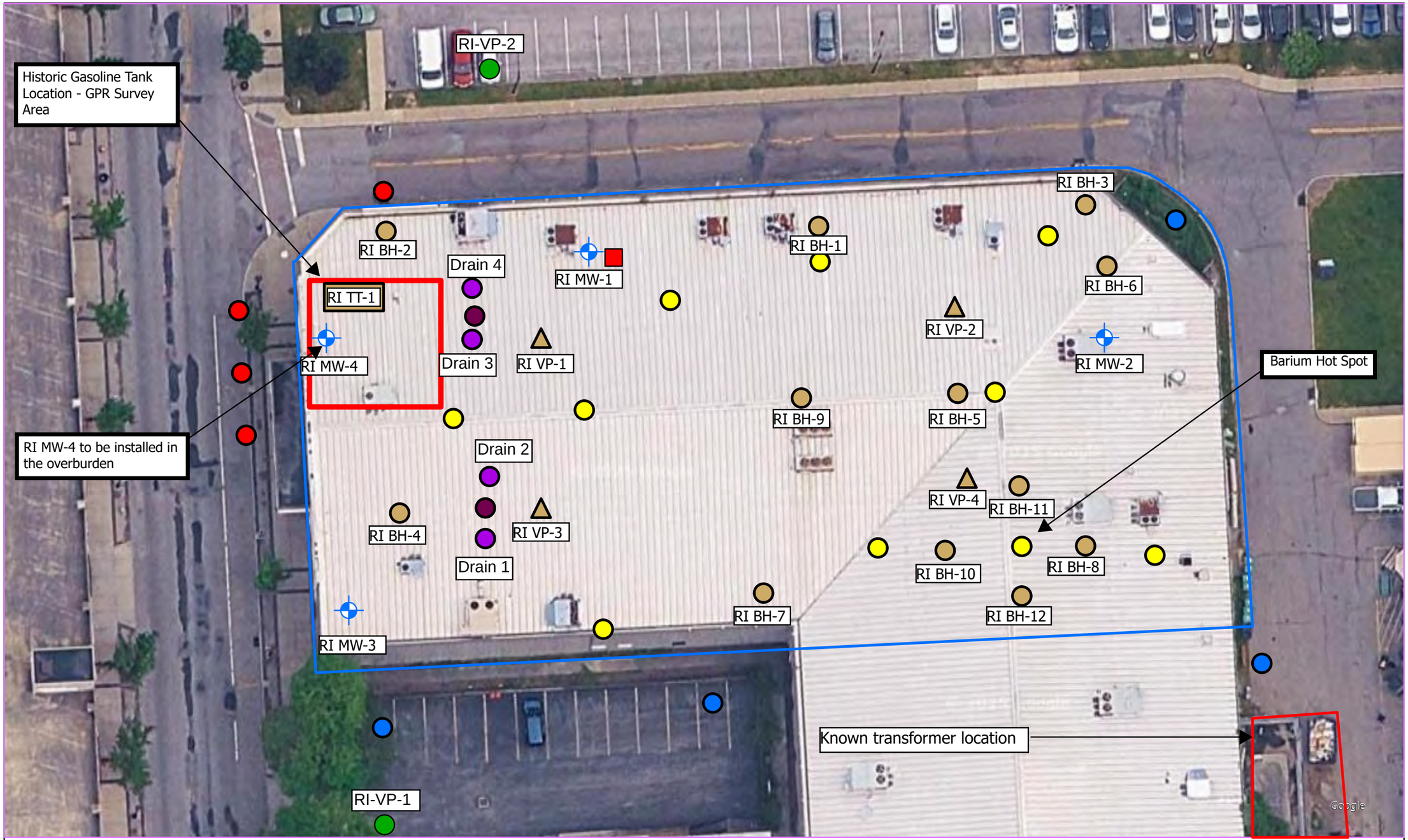
Figure 2: Phase II ESA Sample Analytical Data



BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC	Figure 2: Old Falls Street Boring Locations
Old Falls Street	4/3/2023
Niagara Falls, New York	Edgemere



LEGEND

- LiRo 2019 Phase II Soil Boring
- BE3 2023 Soil Boring
- LiRo 2019 Phase II Vapor
- Project Boundary
- Foundation Design 2023 Geotechnical Boring
- RI Bedrock Monitoring Well
- RI Soil Boring
- RI Vapor Point
- RI Test Trench/Pit
- Existing Floor Drain
- BE3 2025 Floor Drain Sample
- BE3 2025 Supplemental Off-Site Vapor Sample

0 7 14 21 28 Meters
0 30 60 90 Feet

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Figure 3 - RI Sampling Plan With Previous Investigation Locations

The Nest Site
333 1st Street,
Buffalo, NY 14203

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DATE ISSUED:
May 3, 2024

Scale: 1" = 46'

RI BH-2 (2-4')	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Lead	119	63	400
Zinc	303	109	10000

RI VP-1	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Benzo[a]anthracene	1.0 J F1 F1	1	1
Benzo[a]pyrene	1.1 J F1 F2	1	1
Benzo[b]fluoranthe	1.3 J F1 F2	1	1
Indeno[1,2,3-cd]pyr	0.55 J F1 F2	0.5	0.5
Lead	68.9	63	400
Zinc	205 F1	109	10000

RI TT-1 (6-7')	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Zinc	521	109	10000

RI MW-4 (1-3')	Result (ppm)	Unrestricted (ppm)
Lead	66.4	63
Zinc	147	109
RI MW-4 (8-10')		
Lead	76.9	63
Zinc	175	109

RI BH-4 (2-4')	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Lead	155	63	400
Mercury	0.79	0.18	0.81
Zinc	401	109	10000
Benzo[a]anthracene	3.9	1	1
Benzo[a]pyrene	3	1	1
Benzo[b]fluoranthene	3.3	1	1
Benzo[k]fluoranthene	1.9	0.8	3.9
Chrysene	3.3	1	3.9
Dibenz(a,h)anthracene	0.53 J	0.33	0.33
Indeno[1,2,3-cd]pyrene	1.5	0.5	0.5

RI VP-3 (2-4')	Result (ppm)	Unrestricted SCO (ppm)	Restricted Residential (ppm)
Benzo(a)anthracene	2.5 J F1 F2	1	1
Lead	176 F1 F2	63	400
Mercury	4.5	0.18	0.81
Zinc	177 F1 F2	109	10000

RI MW-3 (2-4')	Result (ppm)	Unrestricted (ppm)
Lead	144	63
Zinc	229 F1 F2	109

RI MW-1 (2-4')	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Lead	105	63	400
Zinc	335	109	10000
Benzo[a]anthracene	2.2	1	1
Benzo[a]pyrene	2.2	1	1
Benzo[b]fluoranthe	2.5	1	1
Benzo[k]fluoranthe	0.94 J	0.8	3.9
Chrysene	2.3	1	3.9
Dibenz(a,h)anthrac	0.39 J	0.33	0.33
Indeno[1,2,3-cd]pyr	1.2	0.5	0.5
Methylene Chloride	0.073 JB	0.05	100
Tetrachloroethene	1.8	1.3	19
Trichloroethene	1.7	0.47	21

RI BH-1 (4-6')	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Zinc	149	109	10000
4,4'-DDT	0.0009	0.00088	0.044

RI VP-2 (2-4')	Result (ppm)	Unrestricted (ppm)
Zinc	175	109

RI BH-3 (2-4')	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Cadmium	3	2.5	4.3
Lead	291	63	400
Mercury	0.68	0.18	0.81
Zinc	1020	109	10000
Benzo[a]anthracene	7.3	1	1
Benzo[a]pyrene	8.3	1	1
Benzo[b]fluoranthene	9.8	1	1
Benzo[k]fluoranthene	3.4	0.8	3.9
Chrysene	6.4	1	3.9
Dibenz(a,h)anthracene	1.9	0.33	0.33
Indeno[1,2,3-cd]pyrene	4.1	0.5	0.5

RI BH-6 (2-4')	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Lead	484	63	400
Zinc	365	109	10000
RI BH-6 (7-8')			
Zinc	996	109	10000

RI BH-9 (4-6')	Result (ppm)	Unrestricted (ppm)
Zinc	282	109

RI VP-3 Native (8-9')	Result (ppm)	Unrestricted (ppm)
Zinc	156.0	109

RI VP-4 (2-4')	Result (ppm)	Unrestricted (ppm)
Zinc	395	109
RI VP-4 QA/QC (2-		
Zinc	386	109

RI MW-2 (2-4')	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Cadmium	2.9	2.5	4.3
Zinc	643	109	10000
4,4'-DDT	0.011 JB	0.0033	7.9

RI BH-11 (0-2')	Result (ppm)	Unrestricted (ppm)
Zinc	150 F1	109

RI BH-8 (2-6')	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Barium	415	350	400
Lead	188	63	400
Zinc	193	109	10000
Benzo[b]fluoranthene	1.1 J	1	1
Indeno[1,2,3-cd]pyrene	0.54 J	0.5	0.5

RI BH-7 (2-4')	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Copper	102	50	270
Lead	95.9	63	400
Mercury	0.39	0.18	0.81
Zinc	357	109	10000
Benzo[a]anthracene	8.2	1	1
Benzo[a]pyrene	7.4	1	1
Benzo[b]fluoranthene	8.4	1	1
Benzo[k]fluoranthene	4.1	0.8	3.9
Chrysene	8	1	3.9
Dibenz(a,h)anthracene	1.2 J	0.33	0.33
Indeno[1,2,3-cd]pyrene	3.9	0.5	0.5
4,4'-DDT	0.0086 J	0.0033	7.9

RI BH-10 (2-4')	Result (ppm)	Unrestricted (ppm)	Restricted Residential (ppm)
Mercury	0.41	0.18	0.81
Zinc	148	109	10000
Benzo[a]anthracene	1.4 J	1	1
Benzo[a]pyrene	1.5 J	1	1
Benzo[b]fluoranthene	1.9 J	1	1
Chrysene	1.5 J	1	3.9
Indeno[1,2,3-cd]pyrene	0.98 J	0.5	0.5

RI BH-12 (2-4')	Result (ppm)	Unrestricted (ppm)
Lead	118	63
Mercury	0.47	0.18
Zinc	148	109

Drain 4
Drain 3
Drain 2
Drain 1
RI BH-1
RI BH-2
RI BH-3
RI BH-4
RI BH-5
RI BH-6
RI BH-7
RI BH-8
RI BH-9
RI BH-10
RI BH-11
RI BH-12
RI MW-1
RI MW-2
RI MW-3
RI MW-4
RI TT-1
RI VP-1
RI VP-2
RI VP-3
RI VP-4

LEGEND

- LiRo 2019 Phase II Soil Boring
- BE3 2023 Soil Boring
- LiRo 2019 Phase II Vapor
- Project Boundary
- Foundation Design 2023 Geotechnical Boring
- RI Bedrock Monitoring Well
- RI Soil Boring
- RI Vapor Point
- RI Test Trench/Pit
- Existing Floor Drain
- BE3 2025 Floor Drain Sample

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The Nest Site
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Buffalo, NY 14203

Figure 4 - RI Soil Analytical Results Summary

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DATE ISSUED:
Dec 15, 2024

Scale: 1" = 46'

RI VP-1	Result (ug/m³)	NYSDOH Indoor Air Guidance
Tetrachloroethene	184	30
Trichloroethylene	155	2

RI BH-2
Drain 4
RI MW-1
RI BH-1
RI BH-3
RI TT-1
RI BH-6
RI MW-4
Drain 3
RI VP-1
RI VP-2
RI MW-2
RI BH-9
RI BH-5
Drain 2
RI VP-4
RI BH-11
RI BH-4
RI VP-3
Drain 1
RI BH-10
RI BH-8
RI MW-3
RI BH-7
RI BH-12

RI VP-3	Result (ug/m³)	NYSDOH Indoor Air Guidance
Tetrachloroethene	46.5	30
Trichloroethylene	23	2

RI VP-4	Result (ug/m³)	NYSDOH Indoor Air Guidance
Tetrachloroethene	132	30
Trichloroethylene	6.56	2

Google

LEGEND

- LiRo 2019 Phase II Soil Boring
- BE3 2023 Soil Boring
- LiRo 2019 Phase II Vapor
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- RI Bedrock Monitoring Well
- RI Soil Boring
- RI Vapor Point
- RI Test Trench/Pit
- Existing Floor Drain
- BE3 2025 Floor Drain Sample

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Figure 5a - RI Soil Vapor Analytical Results Summary

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Scale: 1" = 46'

RI MW-1	Result (ppb)	TOGS Guidance
Tetrachloroethylene	7	5
Sodium	297000	20000
	Result (ppt)	**NYSDEC PFAS Guidance**
PFOA	42	6.7
PFOS	13	2.7

RI MW-2	Result (ppb)	TOGS Guidance
Sodium	345000	20000
	Result (ppt)	**NYSDEC PFAS Guidance**
PFOA	21	6.7
PFOS	8.8	2.7

RI MW-3 DUP	Result (ppt)	TOGS Guidance (ppt)
PFOA	16	6.7
PFOS	5.2	2.7

RI MW-3	Result (ppt)	TOGS Guidance (ppt)
PFOA	16	6.7
PFOS	5.2	2.7

RI MW-3 DUP	Result (ppb)	TOGS Guidance (ppb)
Sodium	263000	20000
Tetrachloroethylene	11	5

RI MW-3	Result (ppb)	TOGS Guidance (ppb)
Sodium	267000	20000
Tetrachloroethylene	12 F1	5

RI BH-2 · Drain 4 · RI MW-1 · RI BH-1 · RI BH-3 · RI BH-6 · RI TT-1 · RI MW-4 · Drain 3 · RI VP-1 · RI VP-2 · RI MW-2 · RI BH-9 · RI BH-5 · Drain 2 · RI VP-4 · RI BH-11 · RI BH-4 · RI VP-3 · Drain 1 · RI BH-10 · RI BH-8 · RI BH-7 · RI BH-12 · RI MW-3 · Google

LEGEND

- LiRo 2019 Phase II Soil Boring
- BE3 2023 Soil Boring
- LiRo 2019 Phase II Vapor
- Project Boundary
- Foundation Design 2023 Geotechnical Boring
- RI Bedrock Monitoring Well
- RI Soil Boring
- RI Vapor Point
- RI Test Trench/Pit
- Existing Floor Drain
- BE3 2025 Floor Drain Sample

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Figure 5b - RI Groundwater Analytical Results Summary
The Nest Site
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Buffalo, NY 14203

N

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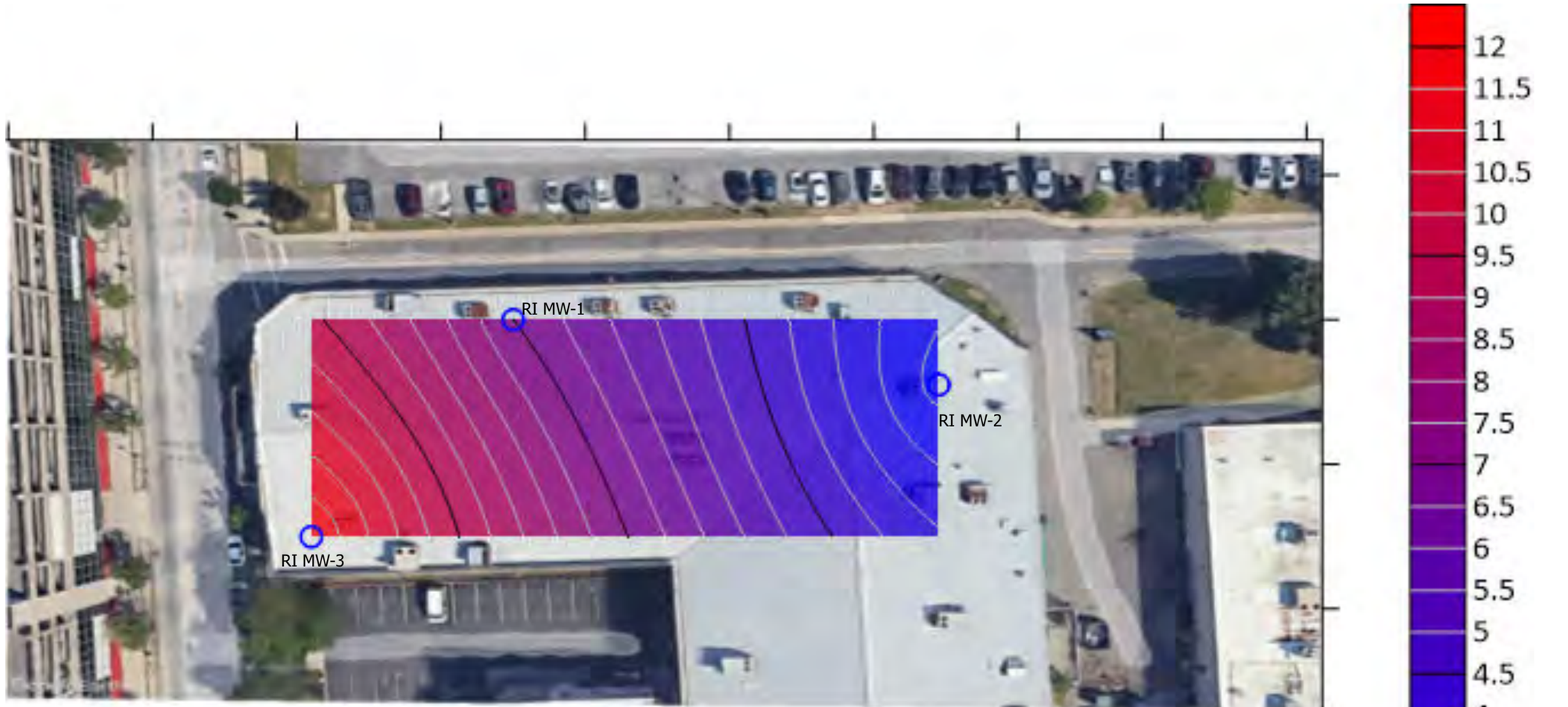
Dec 15, 2024

Scale: 1" = 46'



LEGEND

- High Concentration
- Low Concentration
- Monitoring Well

NOTES

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Figure 6- RI PCE Contour

revised 09/08/2025

The NEST Site
333 1st Street
Buffalo, NY 14203

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DATE ISSUED:
December 12, 2024
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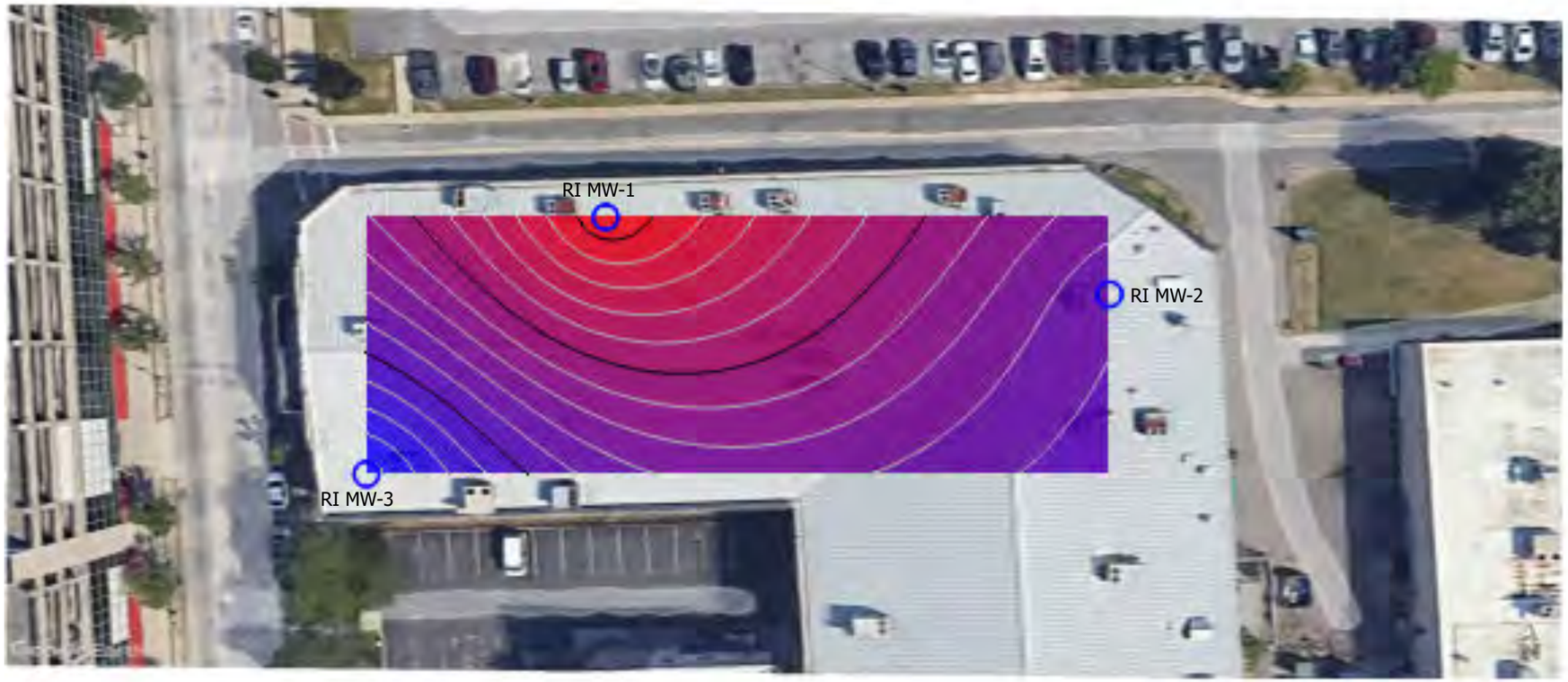

13
12.5
12
11.5
11
10.5
10
9.5
9
8.5
8
7.5
7
6.5
6
5.5
5

0 ft 50 ft 100 ft

Units: parts per trillion (ppt)

LEGEND

- High Concentration
- Low Concentration
- Monitoring well

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Figure 7 - RI PFOS Contour

The Nest Site
333 1st Street,
Buffalo, NY 14203

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DATE ISSUED:
Dec 12, 2024

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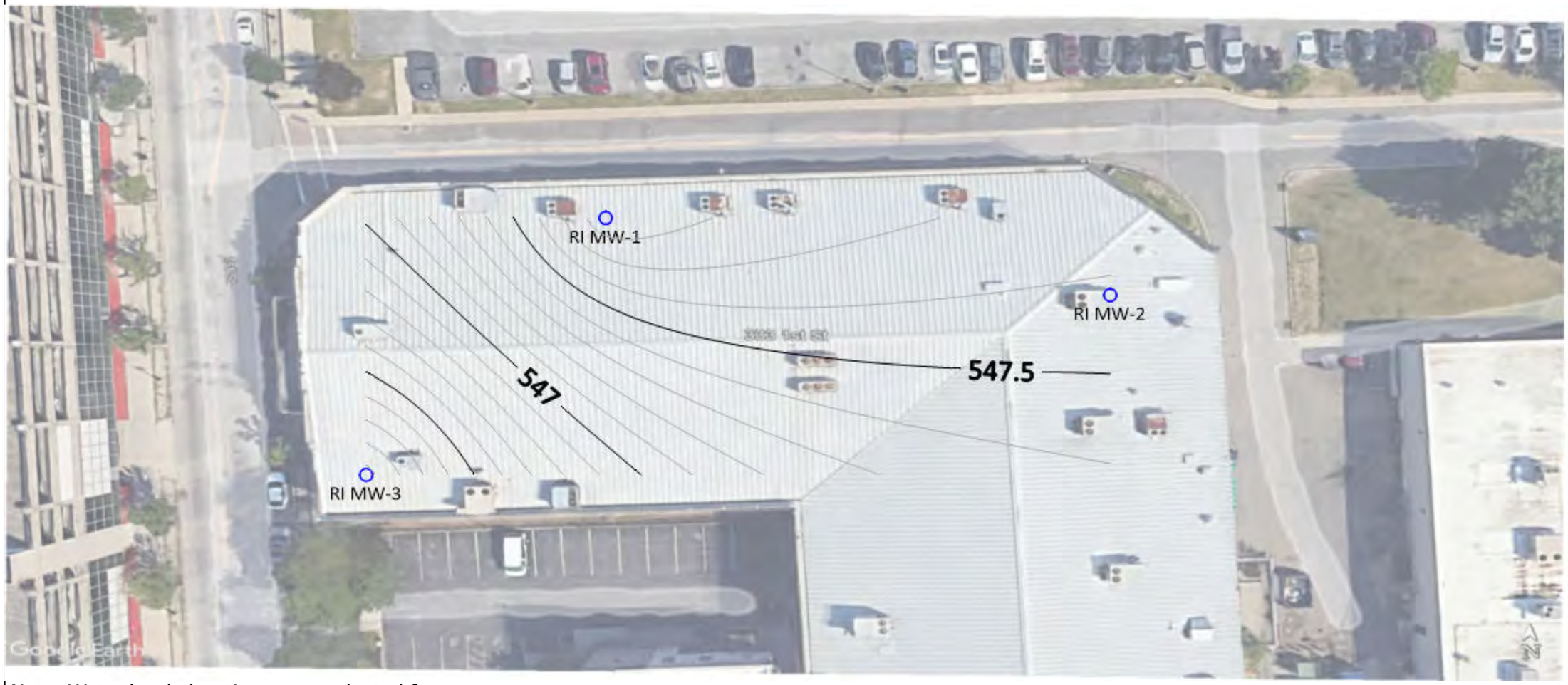

Note: Water level elevations were adapted from Site survey and field measurement data.

Groundwater cross-sections based on RI MW1-RI MW-4 are shown on Figures 11 & 12.

LEGEND

— Contour elevation lines

○ Monitoring wells

RI Monitoring Well Survey Elevations:

RI MW-1: 569.18' ASL (above sea level)
RI MW-2: 569.48' ASL
RI MW-3: 569.26' ASL

Water Level Elevations:

RI MW-1: 547.88' ASL (above sea level)
RI MW-2: 547.58' ASL
RI MW-3: 546.08' ASL

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Figure 8 - RI Groundwater Elevation Contour

The Nest Site
333 1st Street,
Buffalo, NY 14203

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Dec 12, 2024

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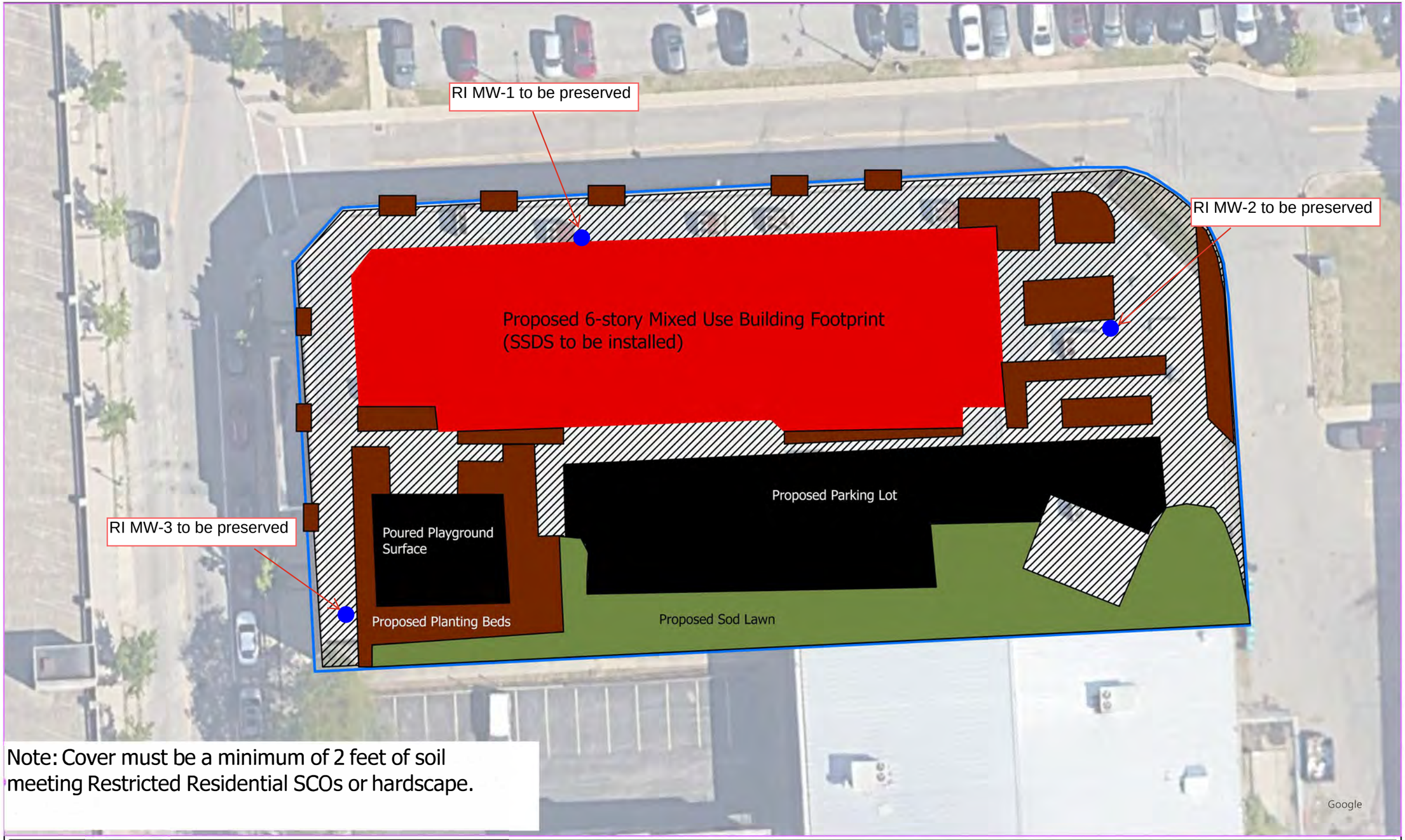
Scale: 1" = 46'



Note: Cover must be a minimum of 2 feet of soil meeting Restricted Residential SCOs or hardscape.

LEGEND

- Project Boundary
- Proposed Planting Beds
- Proposed Sod Lawn
- Proposed Concrete/Aggregate Hardscape
- Proposed Building Footprint
- Proposed Asphalt Hardscape

Playground - 1462 sq ft.
Sod Lawn and Planting - 7,500 sq ft.

-Excavate/Remove approximately 3 feet of hardscape and underlying soils

-Replace with approximately 3 feet of clean soil

New Building Footprint - 13,635 sq ft.
Asphalt - 10,000 sq ft.
Concrete - 9,500 sq ft.

-Remove approximately 2 feet of hardscape and underlying subbase and soil

-Backfill with clean soil and new building foundation

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Figure 9 - Restricted Residential Cleanup Alternative

The Nest Site
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Buffalo, NY 14203

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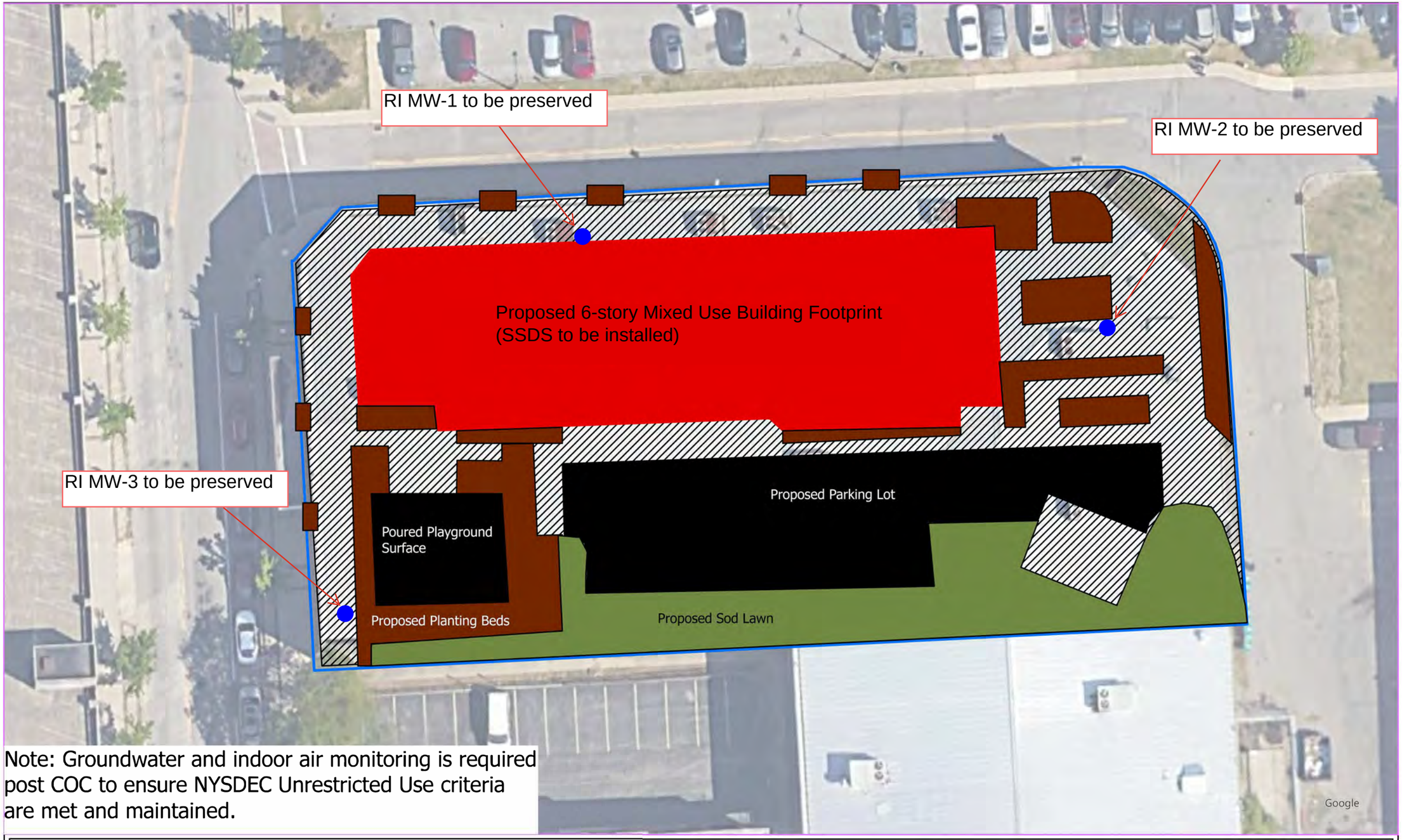
DATE ISSUED:
Dec 12, 2024

Scale: 1" = 46'



Note: Groundwater and indoor air monitoring is required post COC to ensure NYSDEC Unrestricted Use criteria are met and maintained.

LEGEND

- Project Boundary
- Proposed Planting Beds
- Proposed Sod Lawn
- Proposed Concrete/Aggregate Hardscape
- Proposed Building Footprint
- Proposed Asphalt Hardscape

New Building Footprint - 13,635 sq ft.
Asphalt - 10,000 sq ft.
Concrete - 9,500 sq ft.
Playground - 1462 sq ft.
Sod Lawn and Planting - 7,500 sq ft.
-Remove approximately 1 feet of hardscape and underlying subbase
-Remove approximately 7 feet of soil fill to native material or bedrock.
-Replace with clean soil

BE3
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CLIENT - COMMUNITY SERVICES SEVENTH HOUSING

Figure 10 - Unrestricted Use Alternative

The Nest Site
333 1st Street,
Buffalo, NY 14203

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DATE ISSUED:
Dec 12, 2024

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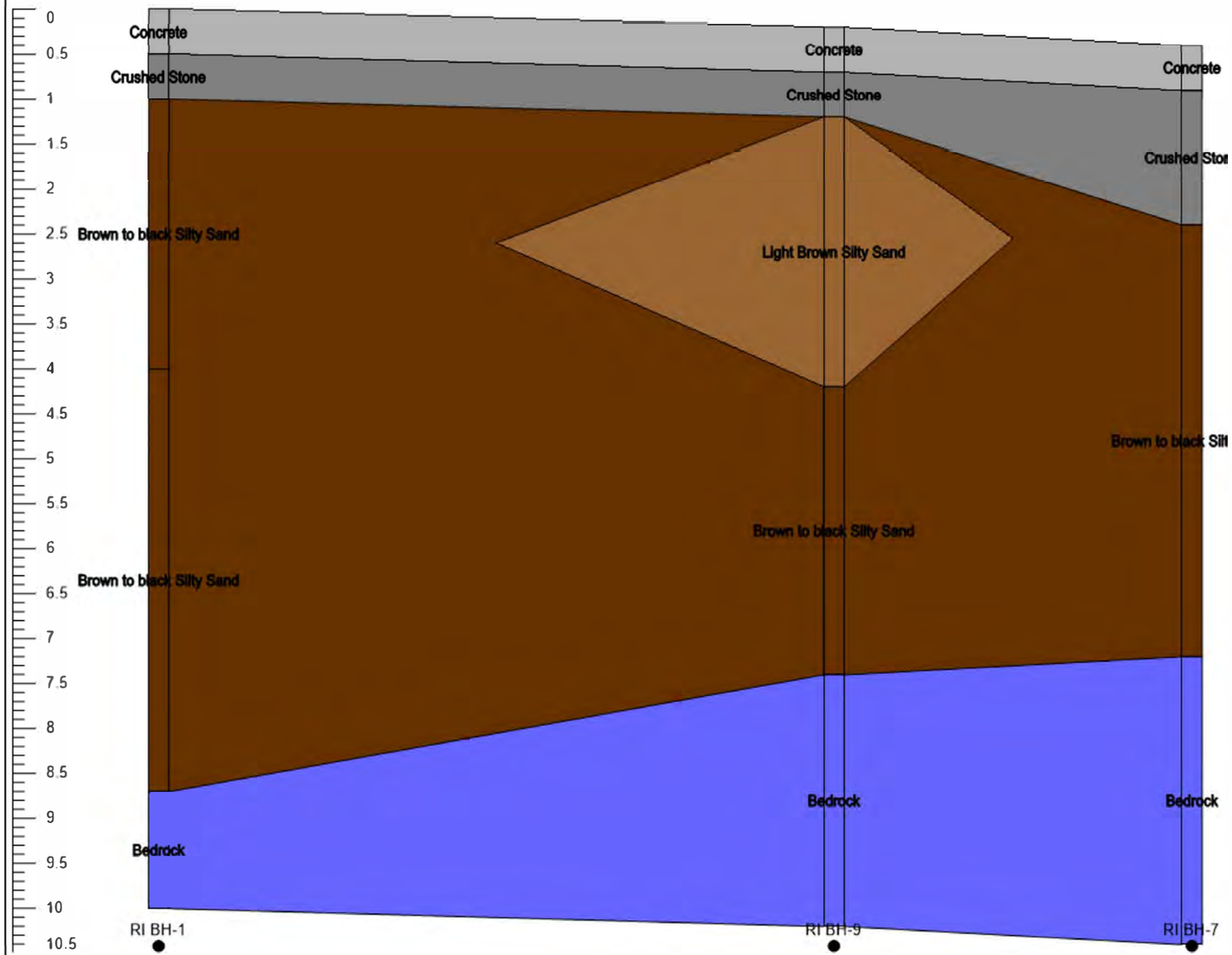
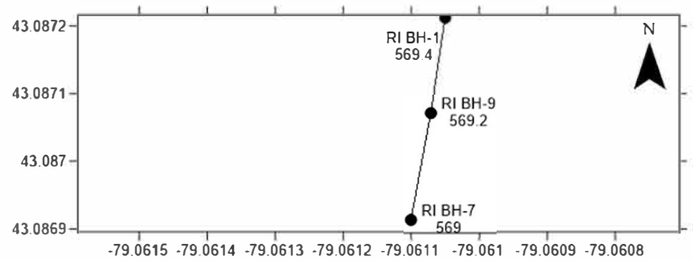
Scale: 1" = 46'



Note: Depth Units are in feet



Note:
1. Depth Units are in feet
2. Fill materials consist of primarily light brown to brown to black silty sands with some clay and various debris (brick, concrete, and glass, etc.)

Legend Title

- Bedrock
- Brown to Black Clay
- Brown to black Silty Sand
- Concrete
- Crushed Stone
- Light Brown Silty Sand

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Figure 11 - Geological Cross Section A

The Nest Site
333 1st Street,
Buffalo, NY 14203

DATE ISSUED:
Dec 27, 2024

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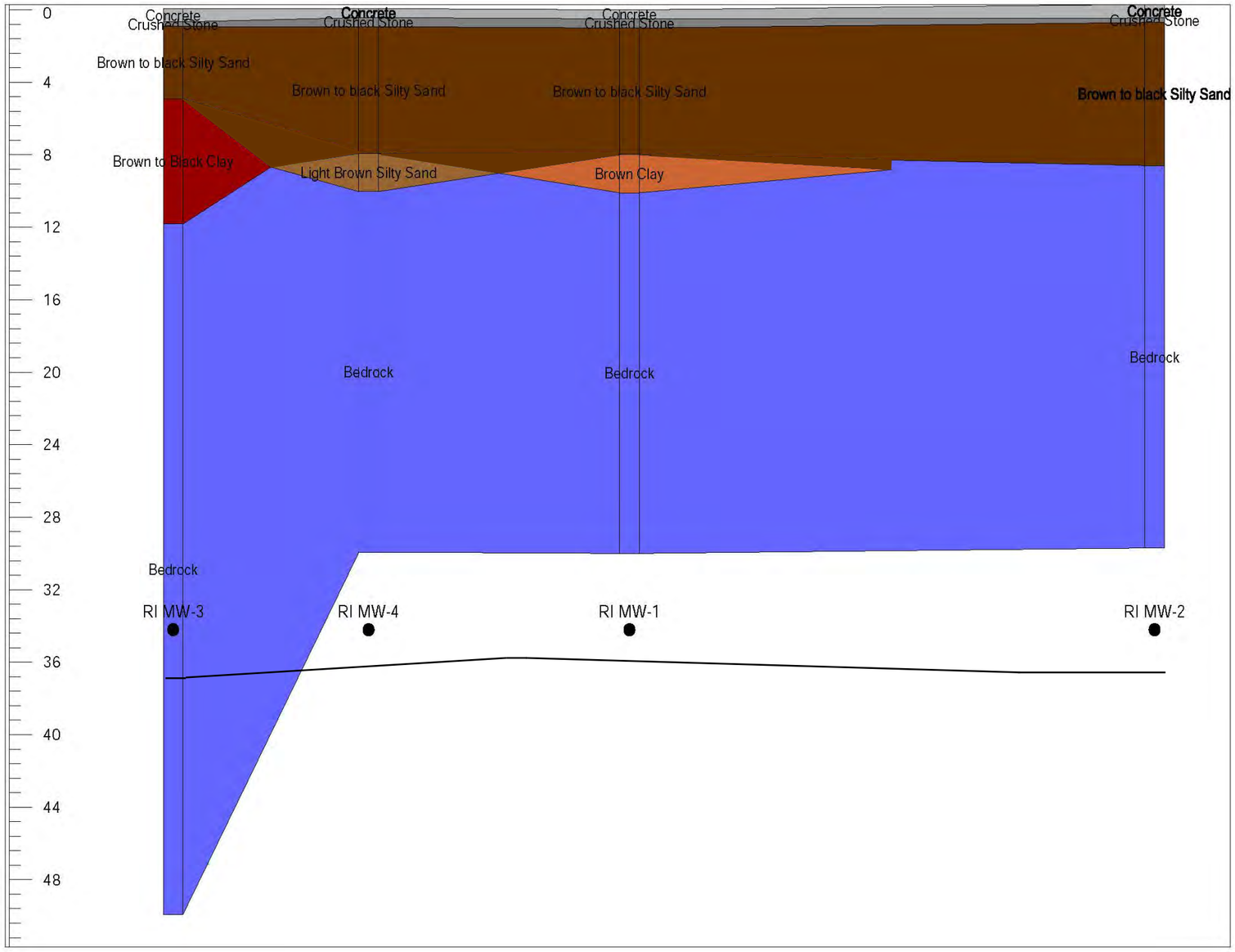

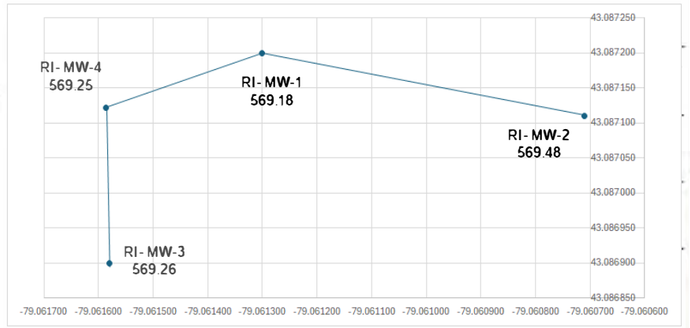

Legend Title

- Bedrock
- Brown Clay
- Brown to Black Clay
- Brown to black Silty Sand
- Concrete
- Crushed Stone
- Light Brown Silty Sand

Note:
1. Depth Units are in feet
2. Fill materials consist of primarily light brown to brown to black silty sands with some clay

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Figure 12 - Geological Cross Section B

The Nest Site
333 1st Street,
Buffalo, NY 14203

DATE ISSUED:
Dec 27, 2024

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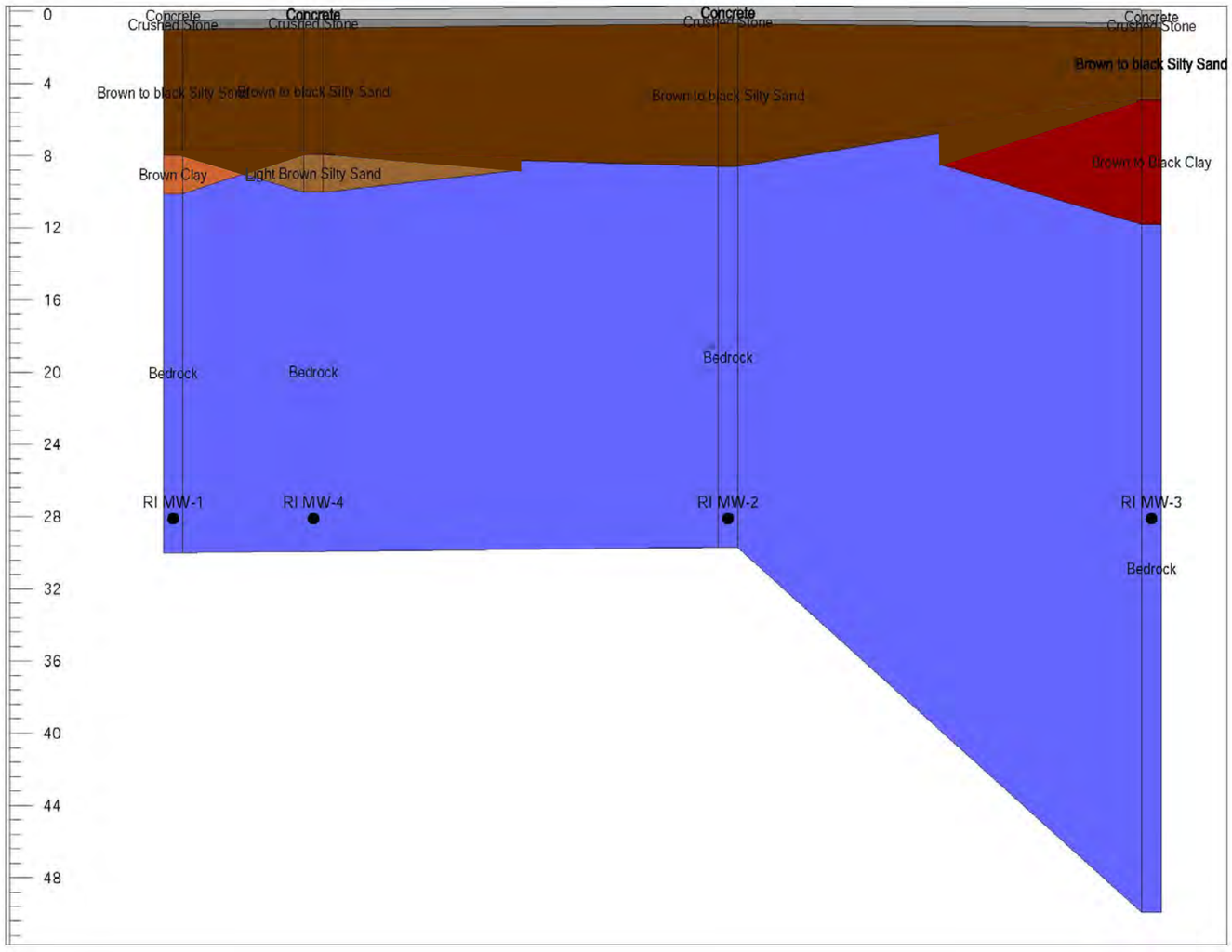

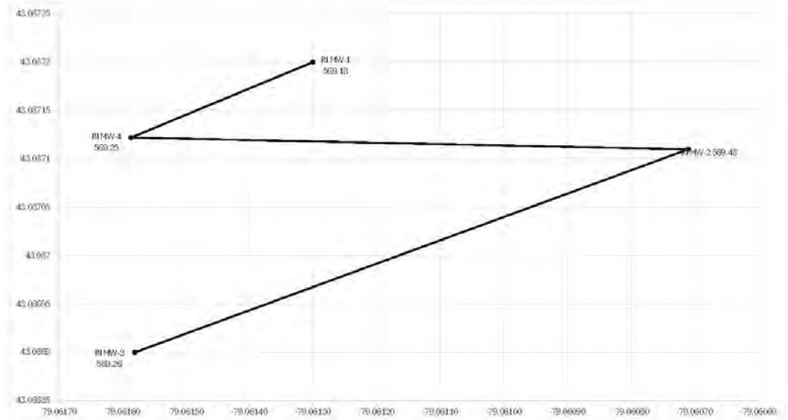

LEGEND

- Bedrock
- Brown Clay
- Brown to Black Clay
- Brown to Black Silty Sand
- Concrete
- Crushed Stone
- Light Brown Silty Sand

NOTES

1. Depth Units are in feet
2. Fill materials consist of primarily light brown to brown to black silty sands with some clay

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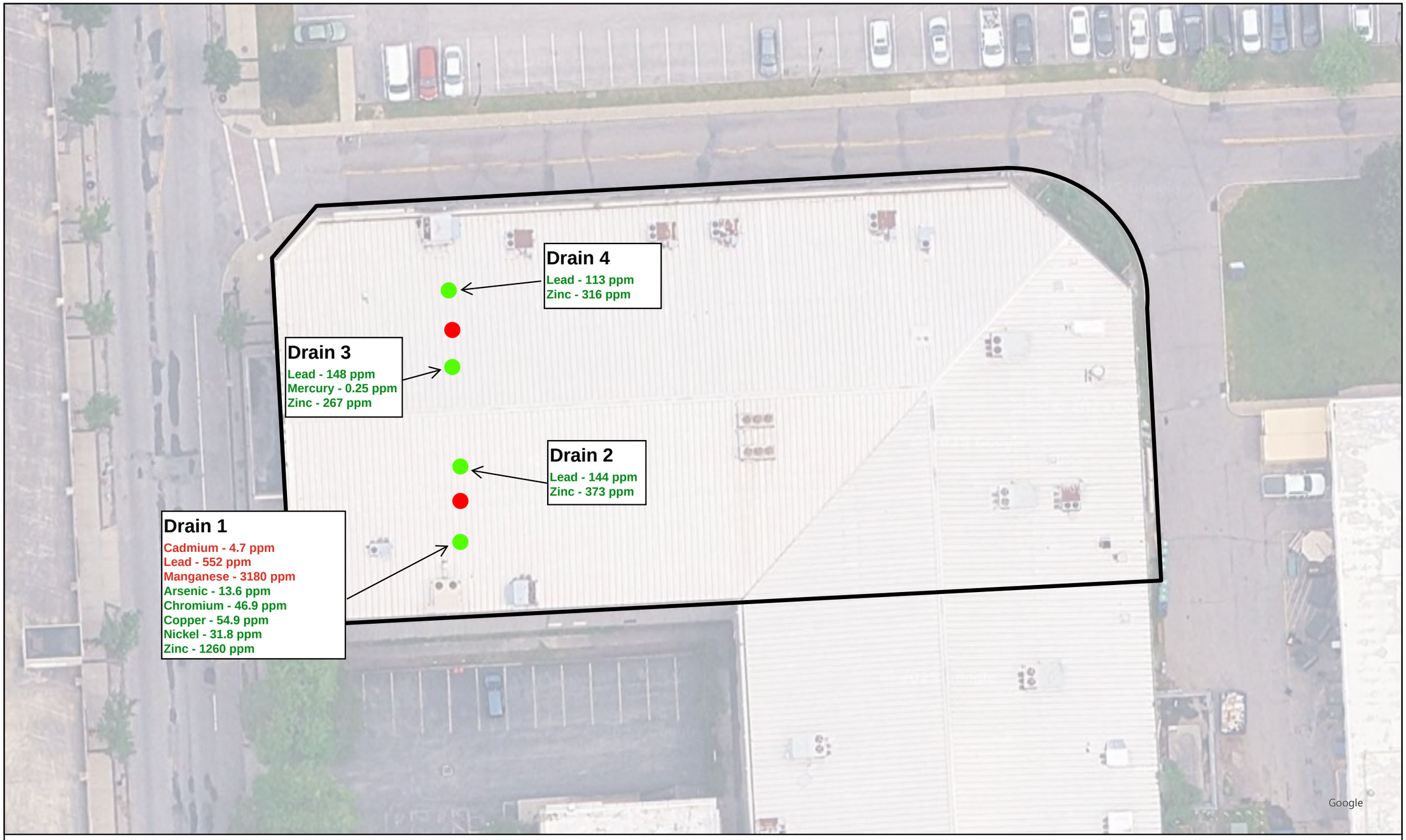
Figure 13 - Geological Cross Section C

revised 9/9/2025
The NEST Site
333 1st Street
Buffalo, NY 14203

DATE ISSUED:
December 27, 2024
△

SCALE: 1:1,288



LEGEND

- Property Boundary
- Floor Drain
- Drain Sample Location

Notes

Red = Restricted Residential SCO Exceedance

Green = Unrestricted SCO Exceedance

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FIGURE 14
Drain Sampling Location and Results Map

333 1st Street
Niagara Falls, NY 14303

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DATE ISSUED:
April 28, 2025

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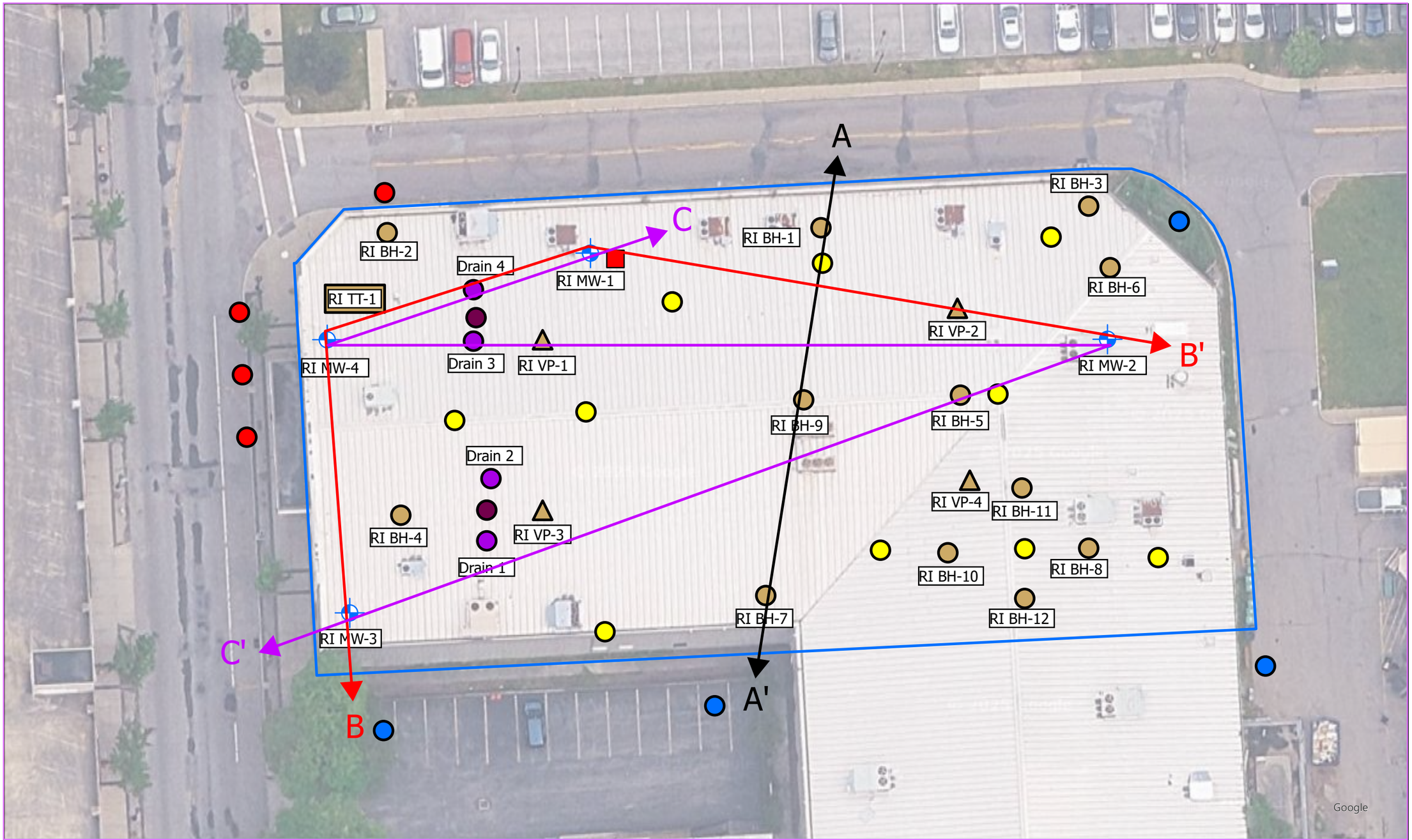
SCALE: 1:500



LEGEND

- LiRo 2019 Phase II Soil Boring
- BE3 2023 Soil Boring
- LiRo 2019 Phase II Vapor
- Project Boundary
- Foundation Design 2023 Geotechnical Boring
- RI Bedrock Monitoring Well
- RI Soil Boring
- RI Vapor Point
- RI Test Trench/Pit
- Existing Floor Drain
- Floor Drain Samples
- Cross Section A View
- Cross Section B View
- Cross Section C View

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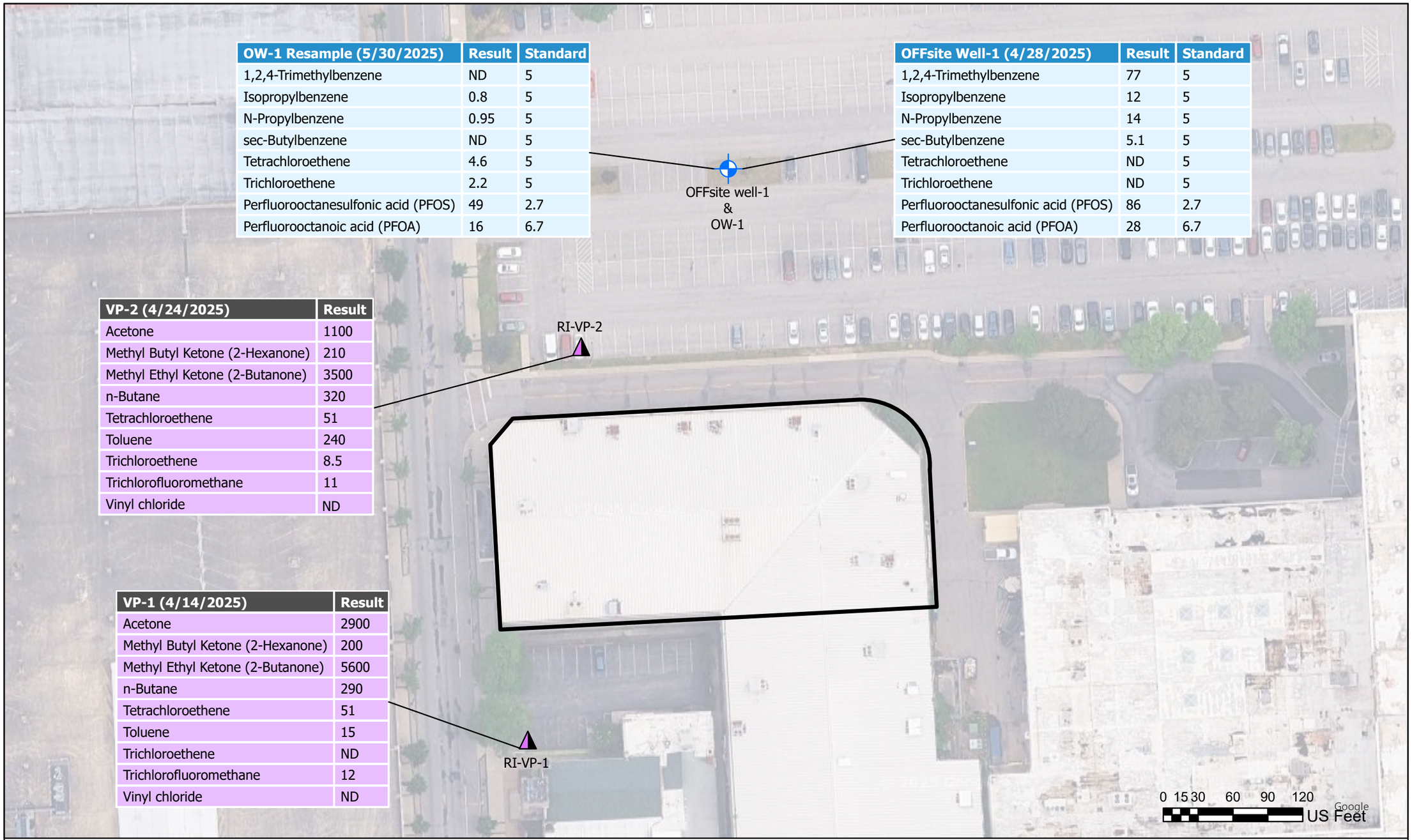
Figure 15 - Cross Section Call Outs

The Nest Site
333 1st Street,
Buffalo, NY 14203

N

DATE ISSUED:
October 17, 2025

Scale: 1" = 46'



OW-1 Resample (5/30/2025)	Result	Standard
1,2,4-Trimethylbenzene	ND	5
Isopropylbenzene	0.8	5
N-Propylbenzene	0.95	5
sec-Butylbenzene	ND	5
Tetrachloroethene	4.6	5
Trichloroethene	2.2	5
Perfluorooctanesulfonic acid (PFOS)	49	2.7
Perfluorooctanoic acid (PFOA)	16	6.7

OFFsite Well-1 (4/28/2025)	Result	Standard
1,2,4-Trimethylbenzene	77	5
Isopropylbenzene	12	5
N-Propylbenzene	14	5
sec-Butylbenzene	5.1	5
Tetrachloroethene	ND	5
Trichloroethene	ND	5
Perfluorooctanesulfonic acid (PFOS)	86	2.7
Perfluorooctanoic acid (PFOA)	28	6.7

VP-2 (4/24/2025)	Result
Acetone	1100
Methyl Butyl Ketone (2-Hexanone)	210
Methyl Ethyl Ketone (2-Butanone)	3500
n-Butane	320
Tetrachloroethene	51
Toluene	240
Trichloroethene	8.5
Trichlorofluoromethane	11
Vinyl chloride	ND

VP-1 (4/14/2025)	Result
Acetone	2900
Methyl Butyl Ketone (2-Hexanone)	200
Methyl Ethyl Ketone (2-Butanone)	5600
n-Butane	290
Tetrachloroethene	51
Toluene	15
Trichloroethene	ND
Trichlorofluoromethane	12
Vinyl chloride	ND

LEGEND

- BCP Property Boundary
- Off-Site Well Location
- Vapor Point Location

NOTES

1. All concentrations of groundwater parameters are in ug/L except PFOS and PFOA. PFOS and PFOA are in parts per trillion (ppt).

2. All concentrations of vapor parameters are measured in ug/m3.

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COMMUNITY SERVICES SEVENTH HOUSING

Figure 16 - Relevant Sample Results
Supplemental RIWP
NEST BCP PROJECT C932183

333 1st Street
Niagara Falls, NY 14303

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W E
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DATE ISSUED:
October 7, 2025
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SCALE: 1:1,000

TABLES

TABLE 1

TEST PIT, BORING, AND MONITORING WELL GPS COORDINATES

Number	Latitude	Longitude
Test Pits		
RI TT-1	43.087153	-79.061557
Soil Vapor		
RI VP-1	43.087121	-79.061375
RI VP-2	43.087146	-79.060904
RI VP-3	43.086995	-79.061369
RI VP-4	43.086995	-79.060891
Borings		
RI BH-1	43.087212	-79.06105
RI BH-2	43.087206	-79.061537
RI BH-3	43.087231	-79.060757
RI BH-4	43.086983	-79.061516
RI BH-5	43.08708	-79.060882
RI BH-6	43.08718	-79.060722
RI BH-7	43.086915	-79.06110
RI BH-8	43.086954	-79.060738
RI BH-9	43.087072	-79.061071
RI BH-10	43.086954	-79.060915
RI BH-11	43.087005	-79.060822
RI BH-12	43.086917	-79.060819
Monitoring Wells		
RI MW-1	43.08720	-79.0613
RI MW-2	43.08711	-79.06071
RI MW-3	43.08690	-79.06158
RI MW-4	43.087122	-79.061586

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TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	Sample Identification, Approximate Sample Depth in Feet Below Ground Surface, and Sample Date									NYSDEC Soil Cleanup Objectives (SCOs)		
	RI-BH-4 2-4' 10/28/2024	RI BH-5 2-6' 11/1/2024	RI BH-6 2-4' 11/1/2024	RI BH-6 7-8' 11/1/2024	RI-BH-7 2-4' 10/28/2024	RI BH-8 2-6' 11/1/2024	RI BH-9 4-6' 11/1/2024	RI BH-10 2-4' 10/29/2024	RI BH-11 0-2' 10/31/2024	Unrestricted	Residential	Restricted Residential
METALS/INORGANICS												
Aluminum	5800	625	10200	16500	4540	7740	1880	3670	2360 F1 F1	-	-	-
Arsenic	4.00	ND	5.50	2.40	2.50	3.40	1.4 J	3.00	ND	16	16	16
Barium	119.0	3.6	85.5	38.9	41.7	415.0	12.2	82.3	12.9	350	400	400
Beryllium	0.260	ND	0.470	0.650	0.200	0.350	0.10 J	0.230	0.11 J	7.2	14	72
Cadmium	1.30	0.52	0.70	0.57	0.66	0.44	1.40	0.48	0.84	2.5	2.5	4.3
Calcium	77900	195000.00	39000.00	15000.00	10400.00	142000.00	181000.00	103000.00	192000.00	-	-	-
Chromium	8.7	1.8	14.6	18.6	5.9	9.6	3.5	7.5	4.5	30	30	110
Cobalt	2.8	0.33 J	6.4	9.9	2.2	3.4	0.69	2.7	1.0	-	-	-
Copper	14.5	1.3	35.3	7.7	102.0	14.5	3.7	15.5	4.0	50	270	270
Iron	12200	1670.0	13300.0	19200.0	5720.0	8740.0	3940.0	5370.0	4260 F2	-	-	-
Lead	155	5.8	484.0	14.8	95.9	188.0	21.5	89.3	16.4	63	400	400
Magnesium	39400.0	114000.0	24000.0	13500.0	56600.0	71100.0	105000.0	41600.0	115000.0	-	-	-
Manganese	382	368	472	262	464	428	417	284	768	1,600	2,000	2,000
Mercury	0.790	0.020	0.500	0.014	0.390	0.070	0.160	0.410	0.020	0.18	0.81	0.81
Nickel	6.8	0.92 J	14.9	24.2	5.9	8.2	2.1 J	7.2	2.8	30	140	310
Potassium	1610	230	2040	4380	1240	1790	688	922	460	-	-	-
Silver	ND	ND	0.46 J	ND	ND	ND	ND	ND	ND	2	36	180
Sodium	260	175	155 J	189	475	609	158 J	250	178	-	-	-
Thallium	0.90 J	1.3 J	ND	1.2 J	0.87 J	1.0 J	1.3 J	ND	0.91 J	-	-	-
Vanadium	12.2	1.4	20.6	25.8	8.5	13.4	4.0	9.8	4.6	-	-	-
Zinc	401	87.5	365.0	996.0	357.0	193.0	282.0	148.0	150 F1	109	2,200	10,000
METALS/INORGANICS												
Total Cyanide	ND	ND	ND	-	ND	ND	ND	ND	ND	27	27	27
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)												
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acenaphthene	0.81 J	ND	ND	ND	0.73 J	ND	ND	ND	ND	20	100	100
Acenaphthylene	ND	ND	0.029 J	ND	1.9 J	ND	ND	ND	ND	100	100	100
Anthracene	2.1	ND	0.086 J	ND	3.6	ND	ND	ND	ND	100	100	100
Benzo[a]anthracene	3.9	ND	0.28	ND	8.2	0.92 J	ND	1.4 J	0.14 J	1	1	1
Benzo[a]pyrene	3	ND	0.18 J	ND	7.4	0.95 J	ND	1.5 J	0.15 J	1	1	1
Benzo[b]fluoranthene	3.3	ND	0.15 J	ND	8.4	1.1 J	ND	1.9 J	0.2 J	1	1	1
Benzo[g,h,i]perylene	1.7	ND	ND	ND	4.6	0.69 J	ND	1.2 J	0.1 J	100	100	100
Benzo[k]fluoranthene	1.9	ND	ND	ND	4.1	0.52 J	ND	0.71 J	ND	0.8	1	3.9
Bis(2-ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Butyl benzyl phthalate	ND	ND	ND	ND	ND	0.46 J	ND	ND	ND	-	-	-
Carbazole	0.92 J	ND	0.031 J	ND	0.78 J	ND	ND	ND	ND	-	-	-
Chrysene	3.3	ND	0.27	ND	8	0.9 J	ND	1.5 J	ND	1	1	3.9
Dibenz(a,h)anthracene	0.53 J	ND	0.05 J	ND	1.2 J	ND	ND	ND	ND	0.33	0.33	0.33
Dibenzofuran	0.44 J	ND	ND	ND	0.86 J	ND	ND	ND	ND	7	14	59
Fluoranthene	8.9	ND	0.55	ND	21	2	ND	3.1 J	0.26 J	100	100	100
Fluorene	0.86 J	ND	0.026 J	ND	1.5 J	ND	ND	ND	ND	30	100	100
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Indeno[1,2,3-cd]pyrene	1.5	ND	0.14 J	ND	3.9	0.54 J	ND	0.98 J	ND	0.5	0.5	0.5
Naphthalene	0.19 J	ND	ND	ND	0.92 J	ND	ND	ND	ND	12	100	100
Phenanthrene	7.2	ND	0.4	ND	14	1.0 J	ND	2.3 J	ND	100	100	100
Pyrene	6.8	ND	0.53	ND	16	1.7	ND	2.5 J	0.23 J	100	100	100

Notes: All units in parts per million (ppm), except for PFAS (ppt)

ND Analyte not detected

90.3 Analyte detected

118 Reported concentration greater than or equal to the NYSDEC Unrestricted SCO

3.75 Reported concentration greater than or equal to the NYSDEC Residential SCO

21.7 Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

J Estimated concentration

F1 MS and/or MSD recovery exceeds control limits

F2 MS/MSD RPD exceeds control limits

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TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	Sample Identification, Approximate Sample Depth in Feet Below Ground Surface, and Sample Date									NYSDEC Soil Cleanup Objectives (SCOs)		
	RI BH-4 2-4' 10/28/2024	RI BH-5 2-6' 11/1/2024	RI BH-6 2-4' 11/1/2024	RI BH-6 7-8' 11/1/2024	RI BH-7 2-4' 10/28/2024	RI BH-8 2-6' 11/1/2024	RI BH-9 4-6' 11/1/2024	RI BH-10 2-4' 10/29/2024	RI BH-11 4-6' 10/31/2024	Unrestricted	Residential	Restricted Residential
VOLATILE ORGANIC COMPOUNDS (VOCs)												
2-Butanone (MEK)	ND	ND	ND	-	ND	ND	ND	ND	ND	0.12	100	100
Acetone	0.014 J vs	ND	0.008 J*1 vs	-	ND	0.0059 J*1vs	0.007 J vs*1	ND	ND	0.05	100	100
Benzene	0.00036 J vs	0.0031 J vs	ND	-	ND	ND	0.00038 J vs	0.00029 J vs	ND	0.06	2.9	4.8
Chloroform	0.00076 J vs B	0.00067 J vs B	0.00078 JB	-	0.00059 J vs B	0.0007 JB vs	0.00062 J vs B	0.00055 J B	0.00056 J B vs	0.37	10	49
Ethylbenzene	ND	0.0015 J vs	ND	-	ND	ND	0.007 J vs	0.00062 J vs	ND	1	30	41
Methyl acetate	ND	ND	ND	-	ND	ND	0.0039 J vs	ND	ND	-	-	-
Methylcyclohexane	ND	ND	ND	-	ND	ND	0.00145 J vs	ND	ND	-	-	-
Methylene Chloride	0.011 vs B	0.013 vs B	0.023 B vs	-	0.0095 vs B	0.019 B vs	0.017 vs B	0.0026 J vs	ND	0.05	51	100
m-Xylene & p-Xylene	ND	0.012	ND	-	ND	0.0012 J	0.0027 J	0.0036 J	ND	0.26	100	100
o-Xylene	ND	0.0039 J	ND	-	ND	ND	0.0012 J	0.0016 J	ND	0.26	100	100
Tetrachloroethene	0.0015 J vs	ND	ND	-	ND	ND	ND	ND	ND	1.3	5.5	19
Toluene	0.00085 J vs	0.0035 J vs	0.00044 J vs	-	0.00049 J vs	0.00068 J vs	0.0021 J vs	0.0033 J vs	0.0012 J vs	0.7	100	100
Trichloroethene	ND	ND	ND	-	ND	ND	ND	ND	ND	0.47	10	21
Xylenes, Total	ND	0.016 vs	ND	-	ND	0.0012 J	0.0039 J vs	0.0052 J	0.001 J vs	0.26	100	100
ORGANOCHLORINE PESTICIDES												
4,4'-DDT	ND	ND	0.0044 J	ND	0.0086 J	0.02 J	0.00078 J	0.012 JB	ND	0.0033	1.7	7.9
alpha-BHC	0.0087 JB	ND	ND	ND	0.011 JB	ND	ND	0.0038 J	ND	0.02	0.097	0.48
delta-BHC	ND	ND	ND	ND	0.0086 JB	ND	ND	0.0046 J	ND	0.04	100	100
Lindane	0.0076 JB	ND	ND	ND	0.0085 JB	ND	ND	ND	ND	0.026	0.28	1.3
POLYCHLORINATED BIPHENYLS (PCBs)												
PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND			
HERBICIDES												
2,4,5-TP (Silvex)	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8	58	100
PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)												
D3-NMeFOSA	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
d3-NMeFOSAA	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
N-ethylperfluorooctanesulfonamidoacetic acid (	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorobutanoic acid (PFBA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorodecanoic acid (PFDA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluoroheptanoic acid (PFHpA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorohexanesulfonic acid (PFHxS)	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorohexanoic acid (PFHxA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorononanoic acid (PFNA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorooctanesulfonamide (PFOSA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorooctanesulfonic acid (PFOS)	ND	ND	ND	230	260	190	250	160 J	140 J	880	8800	44000
Perfluorooctanoic acid (PFOA)	ND	ND	ND	ND	93 J	ND	ND	ND	ND	660	6600	33000
Perfluoropentanoic acid (PFPeA)	ND	ND	ND	ND	240 J	ND	ND	ND	ND	-	-	-

Notes: All units in parts per million (ppm), except for PFAS (ppt)

ND Analyte not detected

90.3 Analyte detected

118 Reported concentration greater than or equal to the NYSDEC Unrestricted SCO

3.75 Reported concentration greater than or equal to the NYSDEC Residential SCO

21.7 Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

vs Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected sccording to 5035A-L low-level specifications

J Estimated concentration

F1 MS and/or MSD recovery exceeds control limits

F2 MS/MSD RPD exceeds control limits

- Not applicable or sample not tested for this analyte

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	Sample Identification, Approximate Sample Depth in Feet Below Ground Surface, and Sample Date							NYSDEC Soil Cleanup Objectives (SCOs)		
	RI BH-12 2-4' 10-31/2024	RI VP-1 2-4' 10/29/2024	RI VP-2 2-4' 10/29/2024	RI VP-3 Native 8-9' 10/29/2024	RI VP-3 2-4' 10/29/2024	RI VP-4 QA/QC 2-4' 10/29/2024	RI VP-4 2-4' 10/29/2024	Unrestricted	Residential	Restricted Residential
METALS/INORGANICS										
Aluminum	6610	3480	1830	3390	9050	7150	5280	-	-	-
Arsenic	2.80	2.3 F1	1.1 J	1.9 J	4.00	2.60	1.8 J	16	16	16
Barium	91.3	44 F1	7.1	15.5	136 F F2	31.2	30.5	350	400	400
Beryllium	0.280	0.15 J F1	0.079	0.14 J	0.36 F1 F2	0.260	0.22 J	7.2	14	72
Cadmium	0.34	0.65 F1	0.49	0.72	0.546 F1 F2	1.20	0.99 J	2.5	2.5	4.3
Calcium	74000.00	131000.00	167000.00	133000.00	108000 F2	121000.00	111000.00	-	-	-
Chromium	8.2	4.6 F1	2.5	3.8	12.3	7.3	5.5	30	30	110
Cobalt	3.5	1.9 F1	0.5	1.7	4.3 F1 F2	3.0	2.2	-	-	-
Copper	14.2	37.3 F1 F2	2.6	9.3	21.5 F1 F2	5.1	9.0	50	270	270
Iron	8730.0	4740.0	2570.0	4920.0	12200 F2	8250.0	5990.0	-	-	-
Lead	118.0	68.9	7.2	47.2	176 F1 F2	33.1	46.9	63	400	400
Magnesium	285000.0	68800.0	104000.0	79000.0	45500 F2	71500.0	66900.0	-	-	-
Manganese	383	378	347	429	461 F1 F2	875	696	1,600	2,000	2,000
Mercury	0.470	0.120	0.062	0.039	4.500	0.089	0.170	0.18	0.81	0.81
Nickel	8.6	4.1 J F1	1.7 J	4.0 J	9.8 F1 F2	5.9	4.9 J	30	140	310
Potassium	1660	943	1	1100	2.3 F1 F2	1110	1070	-	-	-
Silver	ND	ND	ND	ND	ND	ND	ND	2	36	180
Sodium	283	186	180	166	547 F1 F2	238	197	-	-	-
Thallium	ND	ND	0.95 J	1.0 J	ND	0.99 J	0.93 J	-	-	-
Vanadium	12.9	7.5 F1	3.2	7.0	16.9 F1 F2	12.7	9.6	-	-	-
Zinc	148.0	205 F1	175.0	156.0	177 F1 F2	386.0	395.0	109	2,200	10,000
METALS/INORGANICS										
Total Cyanide	ND	ND	ND	ND	ND	ND	ND	27	27	27
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)										
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	20	100	100
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	100	100	100
Anthracene	ND	ND	ND	ND	ND	ND	ND	100	100	100
Benzo[a]anthracene	0.27 J	1.0 J F1 F1	ND	ND	2.5 J F1 F2	ND	ND	1	1	1
Benzo[a]pyrene	0.27 J	1.1 J F1 F2	ND	ND	ND	ND	ND	1	1	1
Benzo[b]fluoranthene	0.35 J	1.3 J F1 F2	ND	ND	ND	ND	ND	1	1	1
Benzo[g,h,i]perylene	0.21 J	0.72 J F1 F2	ND	ND	ND	ND	0.19 J	100	100	100
Benzo[k]fluoranthene	0.13 J	0.52 J F1 F2	ND	ND	ND	ND	ND	0.8	1	3.9
Bis(2-ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND	0.51 J	-	-	-
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	-	-	-
Carbazole	ND	ND	ND	ND	ND	ND	ND	-	-	-
Chrysene	0.28 J	0.98 J F1 F2	ND	ND	ND	ND	ND	1	1	3.9
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	0.33	0.33	0.33
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	7	14	59
Fluoranthene	0.6 J	2.3 J F1 F2	ND	0.027 J	5.7 J F2	ND	0.13 J	100	100	100
Fluorene	ND	ND	ND	ND	ND	ND	ND	30	100	100
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	-	-	-
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	-	-	-
Indeno[1,2,3-cd]pyrene	0.17 J	0.55 J F1 F2	ND	ND	ND	ND	ND	0.5	0.5	0.5
Naphthalene	ND	ND	ND	ND	ND	ND	ND	12	100	100
Phenanthrene	0.32 J	1.3 J F1 F2	ND	ND	4.0 J F1	ND	ND	100	100	100
Pyrene	0.46 J	1.8 J F1 F2	ND	0.022 J	4.3 J F1	ND	0.15 J	100	100	100

Notes: All units in parts per million (ppm), except for PFAS (ppt)
ND Analyte not detected
90.3 Analyte detected
118 Reported concentration greater than or equal to the NYSDEC Unrestricted SCO
3.75 Reported concentration greater than or equal to the NYSDEC Residential SCO
21.7 Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO
J Estimated concentration
F1 MS and/or MSD recovery exceeds control limits
F2 MS/MSD RPD exceeds control limits

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	Sample Identification, Approximate Sample Depth in Feet Below Ground Surface, and Sample Date							NYSDEC Soil Cleanup Objectives (SCOs)		
	RI BH-12 2-4' 10/31/2024	RI VP-1 2-4' 10/29/2024	RI VP-2 2-4' 10/29/2024	RI VP-3 Native 8-9' 10/29/2024	RI VP-3 2-4' 10/29/2024	RI VP-4 QA/QC 2-4' 10/29/2024	RI VP-4 2-4' 10/29/2024	Unrestricted	Residential	Restricted Residential
VOLATILE ORGANIC COMPOUNDS (VOCs)										
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	0.12	100	100
Acetone	ND	0.009 J F1 vs	0.0065 J vs	ND	ND	0.005 J vs	0.0049 J vs	0.05	100	100
Benzene	ND	ND	ND	ND	ND	ND	ND	0.06	2.9	4.8
Chloroform	0.00065 JB vs	0.00051 J B vs	ND	0.00059 J vs	0.00062 J B F1	0.00058 J B vs	0.00055 JB vs	0.37	10	49
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	1	30	41
Methyl acetate	ND	ND	ND	ND	ND	ND	ND	-	-	-
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	-	-	-
Methylene Chloride	ND	0.0024 J vs	ND	ND	ND	0.0028 J vs	ND	0.05	51	100
m-Xylene & p-Xylene	ND	0.0014	0.00097	ND	ND	0.0015 J	0.0026 J	0.26	100	100
o-Xylene	ND	0.00072	ND	ND	ND	ND	0.00072 J	0.26	100	100
Tetrachloroethene	ND	0.0039 J vs	ND	ND	ND	ND	ND	1.3	5.5	19
Toluene	ND	0.002 J vs	0.0013 J vs	ND	0.00077 J vs	0.0019 J vs	0.0021 J vs	0.7	100	100
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	0.47	10	21
Xylenes, Total	ND	0.0021 J	0.00097 J	ND	ND	0.0015 J vs	0.00332	0.26	100	100
ORGANOCHLORINE PESTICIDES										
4,4'-DDT	0.0032 J	0.0058 J B	0.00077 JB	0.00095 JB	0.04 J B	0.0087 JB	ND	0.0033	1.7	7.9
alpha-BHC	ND	ND	ND	ND	ND	ND	ND	0.02	0.097	0.48
delta-BHC	ND	0.002 J vs	ND	ND	ND	ND	ND	0.04	100	100
Lindane	ND	ND	0.00058 J	ND	ND	ND	ND	0.026	0.28	1.3
POLYCHLORINATED BIPHENYLS (PCBs)										
PCBs	ND	ND	ND	ND	ND	ND	ND			
HERBICIDES										
2,4,5-TP (Silvex)	ND	ND	ND	ND	ND	ND	ND	3.8	58	100
PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)										
D3-NMeFOSA	ND	ND	ND	ND	ND	ND	ND	-	-	-
d3-NMeFOSAA	ND	ND	ND	ND	ND	ND	ND	-	-	-
N-ethylperfluorooctanesulfonamidoacetic acid (	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorobutanoic acid (PFBA)	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorodecanoic acid (PFDA)	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluoroheptanoic acid (PFHpA)	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorohexanesulfonic acid (PFHxS)	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorohexanoic acid (PFHxA)	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorononanoic acid (PFNA)	ND	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorooctanesulfonamide (PFOSA)	74 J	ND	ND	ND	ND	ND	ND	-	-	-
Perfluorooctanesulfonic acid (PFOS)	89 J	110 J	ND	ND	ND	ND	80 J	880	8800	44000
Perfluorooctanoic acid (PFOA)	ND	ND	ND	ND	ND	ND	66 J	660	6600	33000
Perfluoropentanoic acid (PFPeA)	ND	ND	ND	ND	ND	ND	ND	-	-	-

Notes: All units in parts per million (ppm), except for PFAS (ppt)

ND Analyte not detected

90.3 Analyte detected

118 Reported concentration greater than or equal to the NYSDEC Unrestricted SCO

3.75 Reported concentration greater than or equal to the NYSDEC Residential SCO

21.7 Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

vs Reported analyte

J Estimated concentration

F1 MS and/or MSD recovery exceeds control limits

F2 MS/MSD RPD exceeds control limits

- Not applicable or sample not tested for this analyte

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Parameter Tested	Sample Identification, Approximate Sample Depth in Feet Below Ground Surface, and Sample Date									NYSDEC Soil Cleanup Objectives (SCOs)		
	RI TT-1 (TANK LOCATION) 6-7' 11/13/2024	RI MW-3 2-4' 10/15/2024	RI MW-1 2-4' 10/17/2024	RI MW-4 1-3' 10/18/2024	RI MW-4 10-12' 10/18/2024	RI MW-2 2-4' 10/18/2024	RI BH-1 4-6' 10/31/2024	RI BH-2 2-4' 10/28/2024	RI BH-3 2-4' 11/1/2024	Unrestricted	Residential	Restricted Residential
METALS/INORGANICS												
Aluminum	7580	8190 F2	6520	3220	4830	5260	1970	6600	5430.0	-	-	-
Arsenic	2.1 J	4.9	2.4 J	2.3	2.7	4.3 F1	ND	3.00	4.9	16	16	16
Barium	25	161 F1 F2	21.1	15.6	31.0	25.8 F1	11	41.2	154	350	400	400
Beryllium	0.35	0.390	0.270	0.17 J	0.21 J	0.23 F1	0.094 J	0.28	0.280	7.2	14	72
Cadmium	1.3 B	0.79	1.50	0.51	0.72	2.9 F1	0.55	0.860	3	2.5	2.5	4.3
Calcium	104000	68800	149000	178000	160000.00	140000.00	197000.00	90700	147000.00	-	-	-
Chromium	8.5	11.4	7.2	5.2	10.1	7.1 F1	4.0	9.2	9.7	30	30	110
Cobalt	4.7	4.6	3.6	1.5	2.4	2.7 F1	0.8	3.5	9.3	-	-	-
Copper	9.5	31	15.4	5.4	9.6	8.3 F1	4.0	16.1	38.4	50	270	270
Iron	9980	11600	7930	4960	6520	9090.0	3530.0	8140	8390.0	-	-	-
Lead	29.1	144	105	66.4	76.9	47.9 F1	8.9	119	291.0	63	400	400
Magnesium	62900	23200	85300	99100	75600.0	64900.0	119000	41100	69500.0	-	-	-
Manganese	434	405	585	372	470	444	590.00	448	449	1,600	2,000	2,000
Mercury	0.024	0.087	0.015 J	0.014 J	0.041	0.03	0.027	0.1300	0.68	0.18	0.81	0.81
Nickel	9.8	13.3	8.3	5.1 J	7.0	7.9 F1	3.0	8.80	11.00	30	140	310
Potassium	2110	1890	2270	1710	1970.0	1910 F1	704.0	1810	1360.00	-	-	-
Silver	ND	ND	ND	ND	ND	0.21 J F1	ND	ND	ND	2	36	180
Sodium	164 J	467	204	256	340	241 F1	187	315	224.000	-	-	-
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Vanadium	13.7	17.4	12.9	6.7	8.1	8.0 F1	3.7	12.40	10.800	-	-	-
Zinc	521	229 F1 F2	335	147	175	643.0	149.0	303	1020	109	2,200	10,000
INORGANICS												
Total Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND	27	27	27
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)												
2-Methylnaphthalene	ND	ND	0.23 J	ND	ND	ND	ND	ND	ND	-	-	-
Acenaphthene	ND	ND	0.79 J	ND	ND	ND	ND	ND	0.48 J	20	100	100
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	0.32 J	100	100	100
Anthracene	ND	ND	1.7	ND	ND	ND	ND	ND	1.7 J	100	100	100
Benzo[a]anthracene	ND	ND	2.2	ND	ND	ND	ND	0.44 J F1	7.3	1	1	1
Benzo[a]pyrene	0.045 J	ND	2.2	ND	ND	ND	ND	ND	8.3	1	1	1
Benzo[b]fluoranthene	0.056 J	ND	2.5	ND	ND	ND	ND	0.64 J	9.8	1	1	1
Benzo[g,h,i]perylene	0.041 J	ND	1.6	ND	ND	ND	ND	0.4 J	4.9	100	100	100
Benzo[k]fluoranthene	ND	ND	0.94 J	ND	ND	ND	ND	ND	3.4	0.8	1	3.9
Bis(2-ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Butyl benzyl phthalate	ND	ND	0.19 J	0.32 J	5.2	1.8	ND	ND	ND	-	-	-
Carbazole	ND	ND	0.64 J	ND	ND	ND	ND	ND	0.77 J	-	-	-
Chrysene	ND	ND	2.3	ND	ND	ND	ND	ND	6.4	1	1	3.9
Dibenz(a,h)anthracene	ND	ND	0.39 J	ND	ND	ND	ND	ND	1.9	0.33	0.33	0.33
Dibenzofuran	ND	ND	0.46 J	ND	ND	ND	ND	ND	0.37 J	7	14	59
Fluoranthene	ND	ND	6.3	ND	0.15 J	ND	ND	1.1 J F1	10	100	100	100
Fluorene	ND	ND	0.72	ND	ND	ND	ND	ND	0.48 J	30	100	100
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Hexachlorobutadiene	0.047 J	ND	0.39 J	ND	ND	ND	ND	ND	ND	-	-	-
Indeno[1,2,3-cd]pyrene	0.058 J	ND	1.2	ND	ND	ND	ND	ND	4.1	0.5	0.5	0.5
Naphthalene	ND	ND	0.32 J	ND	ND	ND	ND	ND	0.35 J	12	100	100
Phenanthrene	ND	ND	6.1	ND	ND	ND	ND	0.63 J F1	6.8	100	100	100
Pyrene	ND	ND	5.1	ND	0.14 J	ND	ND	0.89 J F1	8.5	100	100	100

Notes: All units in parts per million (ppm), except for PFAS (ppt)

ND Analyte not detected

90.3 Analyte detected

118 Reported concentration greater than or equal to the NYSDEC Unrestricted SCO

3.75 Reported concentration greater than or equal to the NYSDEC Residential SCO

21.7 Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

J Estimated concentration

F1 MS and/or MSD recovery exceeds control limits

F2 MS/MSD RPD exceeds control limits

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	RI TT-1 (TANK LCOATION 6-7' 11/13/2024	RI MW-3 2-4' 10/15/2024	RI MW-1 2-4' 10/17/2024	RI MW-4 1-3' 10/18/2024	RI MW-4 10-12' 10/18/2024	RI MW-2 2-4' 10/18/2024	RI BH-1 4-6' 10-31-2024	RI BH-2 2-4' 10/28/2024	RI BH-3 2-4' 11/1/2024	NYSDEC Soil Cleanup Objectives (SCOs) Unrestricted	Residential	Restricted Residential
VOLATILE ORGANIC COMPOUNDS (VOCs)												
2-Butanone (MEK)	ND	0.0064 J F1 F2 vs	ND	ND	0.0042 J vs	ND	ND	ND	ND	0.12	100	100
Acetone	0.0084 J vs	ND	ND	0.0066 J vs	0.022 J vs	ND	ND	0.0051 J vs	0.0091 J*1vs	0.05	100	100
Benzene	ND	ND	ND	0.00039 J vs	0.00047 J vs	ND	ND	ND	0.00027 Jvs	0.06	2.9	4.8
Chloroform	0.00065 J B vs	0.00047 J vs	ND	0.00050 J vs B	0.00049 J vs B	0.00053 J vs	0.00057 JB vs	0.00072 J vs B	0.00064 JB	0.37	10	49
Ethylbenzene	ND	0.0005 J vs	ND	ND	0.0021 J vs	ND	ND	ND	ND	1	30	41
Methyl acetate	ND	ND	0.41 J	ND	ND	ND	ND	ND	ND	-	-	-
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Methylene Chloride	ND	ND	0.073 JB	ND	ND	ND	ND	0.013 vs B	0.019 JB vs	0.05	51	100
m-Xylene & p-Xylene	ND	0.0023	ND	ND	ND	ND	ND	ND	0.00089 J	0.26	100	100
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	100	100
Tetrachloroethene	0.0038 J vs	ND	1.8	ND	ND	ND	ND	0.0025 J vs	ND	1.3	5.5	19
Toluene	ND	0.0014 J vs	0.06 J	0.0016 J vs	0.006 vs	ND	0.0012 J vs	0.00092 J vs	0.0011 J vs	0.7	100	100
Trichloroethene	ND	ND	1.7	ND	ND	ND	ND	0.0019 J vs	ND	0.47	10	21
Xylenes, Total	ND	0.0031 J vs	ND	0.0013 J vs	0.02 vs	ND	0.0011 J vs	ND	0.00089 J vs	0.26	100	100
ORGANOCHLORINE PESTICIDES												
4,4'-DDT	0.0012 J B	ND	ND	ND	ND	0.011 JB	ND	ND	0.016 J	0.0033	1.7	7.9
alpha-BHC	ND	ND	0.0091 JB	ND	ND	ND	ND	0.0078 J B	ND	0.02	0.097	0.48
delta-BHC	ND	ND	ND	0.00064 J	ND	ND	ND	ND	ND	0.04	100	100
Lindane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026	0.28	1.3
POLYCHLORINATED BIPHENYLS (PCBs)												
PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND			
HERBICIDES												
2,4,5-TP (Silvex)	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8	58	100
PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)												
D3-NMeFOSA	ND	ND	150 J	ND	-	ND	ND	ND	ND	-	-	-
d3-NMeFOSAA	ND	ND	560	ND	-	ND	ND	ND	ND	-	-	-
N-ethylperfluorooctanesulfonamidoacetic acid (	ND	ND	ND	ND	-	82 J	ND	ND	ND	-	-	-
Perfluorobutanoic acid (PFBA)	ND	190 J	ND	ND	-	ND	190 J	ND	ND	-	-	-
Perfluorodecanoic acid (PFDA)	ND	ND	120 J	ND	-	ND	ND	ND	ND	-	-	-
Perfluoroheptanoic acid (PFHpA)	ND	ND	88 J	ND	-	ND	ND	ND	ND	-	-	-
Perfluorohexanesulfonic acid (PFHxS)	ND	ND	52 J	ND	-	ND	ND	ND	ND	-	-	-
Perfluorohexanoic acid (PFHxA)	ND	ND	330	ND	-	ND	ND	ND	ND	-	-	-
Perfluorononanoic acid (PFNA)	ND	ND	100 J	ND	-	ND	ND	ND	ND	-	-	-
Perfluorooctanesulfonamide (PFOSA)	ND	ND	520	ND	-	ND	ND	ND	ND	-	-	-
Perfluorooctanesulfonic acid (PFOS)	ND	110	770	78 J	-	45 J	900	110 J	96 J	880	8800	44000
Perfluorooctanoic acid (PFOA)	ND	ND	340	58 J	-	ND	59 J	ND	ND	660	6600	33000
Perfluoropentanoic acid (PFPeA)	ND	ND	220 J	ND	-	ND	ND	ND	ND	-	-	-

Notes: All units in parts per million (ppm), except for PFAS (ppt)

ND Analyte not detected

90.3 Analyte detected

118 Reported concentration greater than or equal to the NYSDEC Unrestricted SCO

3.75 Reported concentration greater than or equal to the NYSDEC Residential SCO

21.7 Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

J Estimated concentration

F1 MS and/or MSD recovery exceeds control limits

F2 MS/MSD RPD exceeds control limits

Reported analyte

vs concentrations are

- Not applicable or sample not tested for this analyte

TABLE 3 - SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

aminants	dentification, Type of Sample, and Date Analyzed			
	VP-1 Soil Vapor	VP-2 Soil Vapor	VP-3 Soil Vapor	VP-4 Soil Vapor
	11/6/2024			
	Volatile Organic Compounds (TO-15)			
1,2,4-Trimethylbenzene	ND	ND	ND	2.36
1,2-Dichloroethane	ND	ND	ND	0.579 J
1,3,5-Trimethylbenzene	ND	ND	ND	2.43
1,3-Butadiene	0.164 J	ND	ND	4.25
2-Butanone	0.672 J	0.764 J	0.448 J	ND
4-Ethyltoluene	ND	ND	ND	1.67
Acetone	4.13	4.35	3.75	2.95
Benzene	0.668	ND	ND	37.1
Carbon disulfide	0.906	1.27	ND	14.4
Carbon tetrachloride	0.673 J	ND	1.47	2.54
Chloroform	8.01	0.488 J	3.69	2.17
Chloromethane	0.182 J	0.248 J	0.312 J	0.324 J
cis-1,2-Dichloroethene	0.642 J	ND	ND	ND
Cyclohexane	0.854	ND	ND	198
Dichlorodifluoromethane	2.57	8.75	4.94	15.1
Ethylbenzene	ND	ND	ND	1.43
Freon-113	ND	ND	0.399 J	0.429 J
Heptane	ND	0.697 J	ND	39.2
Hexachlorobutadiene	2.31	ND	ND	16.3
Isopropanol	3.15	ND	6.32	ND
Methylene chloride	0.855 J	ND	0.459 J	4.93
n-Hexane	1.03	0.730 J	ND	258
o-Xylene	ND	ND	ND	1.94
p/m-Xylene	ND	ND	ND	4.6
Tetrachloroethene	184	5.71	46.5	132
Tetrahydrofuran	0.490 J	ND	0.970 J	ND
Toluene	ND	ND	ND	14
trans-1,2-Dichloroethene	0.515 J	ND	ND	ND
Trichloroethene	155	ND	23	6.56
Trichlorofluoromethane	82	22.5	389	1360
Vinyl Chloride	ND	ND	ND	ND

NO FURTHER ACTION No further action is required.

MITIGATE r Above guidline values as compared to Table 3.1 Indoor Air s derived by NYSDOH

ND Not detected

\- Not applicable

J Estimated concentration

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Parameter Tested	Sample Identification and Sample Date				NYSDEC TOGS 1.1.1 GA
	RI MW-3	RI MW-3 DUP	RI MW-2	RI MW-1	
	10/30/2024				
METALS					
Barium	50	48	37	39	1000
Cadmium	4.4	4.3	ND	2.5	5
Calcium	120000	117,000	89,800	115,000	-
Chromium, Trivalent	1.9 J	1.5	ND	2.7 J	50
Cobalt	0.89 J	0.63 J	0.75 J	0.76 J	-
Copper	ND	ND	ND	1.8 J	200
Iron	ND	33 J	ND	ND	600
Lead	ND	4.4 J	ND	ND	25
Magnesium	33,100	32,200	20,300	22,300	35,000
Manganese	2.5 JB	2.7 JB	53 B	12 B	600
Nickel	2.7 J	3.0 J	3.4 J	2.6 J	100
Potassium	19,100	18.8	18,200	22,800	-
Sodium	267,000	263,000	345,000	297,000	20,000
Zinc	1,400 B F1	1,400 B	340 B	520 B	2000
TOTAL CYANIDE					
Total Cyanide	**4.1 J**	**ND**	**ND**	**5.7 J**	200
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)					
SVOCs	ND	ND	ND	ND	Various
VOLATILE ORGANIC COMPOUNDS (VOCs)					
Carbon tetrachloride	ND	0.29 J	ND	ND	5
Chloroform	2.3	1.9	0.39 J	1.9	7
sec-Butylbenzene	ND	ND	0.81 J	ND	5
Tetrachloroethene	12 F1	11	2.3	7.0	5
Trichloroethene	3.5	3.2	1.1	2.2	5
CHLORINATED PESTICIDES					
4,4'-DDE	ND	ND	ND	0.013 J	0.2
4,4'-DDT	0.024 JB	0.022 JB	0.018 JB	0.041 JB	0.2
delta-BHC	ND	ND	ND	0.011 JB	0.04
Endosulfan II	0.013 JB	ND	0.026 JB	0.014 JB	-
Lindane	ND	ND	0.010 JB	ND	-
POLYCHLORINATED BIPHENYLS (PCBs)					
PCBs	ND	ND	ND	ND	Various
HERBICIDES					
Silvex (2,4,5-TP)	ND	ND	ND	ND	0.26

Notes: All units in microgams per liter (µg/L)
NYSDEC New York State Department of Environmental Conservation
TOGS Technical and Operational Guidance Series
ND Analyte not detected
9.58 Analyte detected
128 Analyte exceeds NYSDEC TOGS guidance value
J Estimated concentration
B Compound was found in the blank and sample
F1 MS and/or MSD recovery exceeds control limits
I Value is EMPC (Estimate Maximum Possible Concentration)
- Not applicable or sample not tested for this analyte
~ Duplicate of Sample MW2

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Parameter Tested	Sample Identification and Sample Date				NYSDEC Sampling, Analysis, and Assessment of PFAS Guidance
	MW-3	MW-3 DUP~	RI MW-2	RI MW-1	
	10/30/2024				
PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)					
Perfluorobutanoic acid (PFBA)	**17**	**17**	**11**	**17**	100
Perfluoropentanoic acid (PFPeA)	**19**	**19**	**12**	**37**	100
Perfluorohexanoic acid (PFHxA)	**18**	**18**	**16**	**38**	100
Perfluoroheptanoic acid (PFHpA)	**9.3**	**10**	**8.9**	**27**	100
Perfluorooctanoic acid (PFOA)	**16**	**16**	**21**	**42**	6.7
Perfluorononanoic acid (PFNA)	**1.5 J**	**1.4 J**	**3.3**	**4.3**	100
Perfluorodecanoic acid (PFDA)	**0.81 J**	**0.84 J**	**2.8**	**2.9**	100
Perfluorobutanesulfonic acid (PFBS)	**3.1**	**3.3**	**4.4**	**4.8**	100
Perfluoropentanesulfonic acid (PFPeS	**0.5 J**	**0.54 J**	**0.74 J**	**1.3**	100
Perfluorohexanesulfonic acid (PFHxS)	**2**	**1.9**	**2.1 J**	**4.4**	100
Perfluorooctanesulfonic acid (PFOS)	**5.2**	**5.2**	**8.8**	**13**	2.7
Total PFOA/PFOS	**21.2**	**21.2**	**29.8**	**55**	-

Notes: All units in micrograms per liter (µg/L)
NYSDEC New York State Department of Environmental Conservation
TOGS Technical and Operational Guidance Series
ND Analyte not detected
9.58 Analyte detected
128 Analyte exceeds NYSDEC Sampling, Analysis and Assessment of PFAS Guidance
J Estimated concentration
B Compound was found in the blank and sample
F1 MS and/or MSD recovery exceeds control limits
I Value is EMPC (Estimate Maximum Possible Concentration)
- Not applicable or sample not tested for this analyte
~ Duplicate of Sample RI MW-3

TABLE 5
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	Sample Identification, Approximate Sample Depth in Feet Below Ground Surface, and Sample Date				NYSDEC Soil Cleanup Objectives (SCOs)		
	Drain 1 2-3' 4/3/2025	Drain 2 2-3'	Drain 3 2-3'	Drain 4 2-3'	Unrestricted	Residential	Restricted Residential
METALS/INORGANICS							
Arsenic	**13.6**	4.5	3.1	2.0	13	16	16
Barium	227	59.8	59.2	40.5	350	350	400
Beryllium	1	0.310	0.330	0.240	7.2	14	72
Cadmium	**4.7**	1.20	0.81	1.10	2.5	2.5	4.3
Chromium	**46.9**	11.3	11.4	15.0	30	36	180
Copper	**54.9**	19	21.5	12.6	50	270	270
Lead	**552**	**144**	**148**	**113.0**	63	400	400
Manganese	**3180**	471	546	550	1,600	2,000	2,000
Mercury	0.12	0.130	**0.250**	0.069	0.18	0.81	0.81
Nickel	**31.8**	11.2	9.2	8.9	30	140	310
Selenium	ND	0.88	ND	ND	3.9	36	180
Silver	ND	ND	ND	ND	2	36	180
Zinc	**1260**	**373**	**267**	**316**	109	2,200	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)							
Benzo[a]anthracene	ND	ND	0.26	ND	1	1	1
Benzo[a]pyrene	ND	0.4	0.3	ND	1	1	1
Benzo[b]fluoranthene	ND	0.54	0.29	ND	1	1	1
Benzo[g,h,i]perylene	ND	0.36	0.22	ND	100	100	100
Benzo[k]fluoranthene	ND	0.3	0.27	ND	0.8	1	3.9
Chrysene	ND	ND	0.28	ND	1	1	3.9
Fluoranthene	.550	0.86	0.54	ND	100	100	100
Indeno[1,2,3-cd]pyrene	ND	0.34	0.18	ND	0.5	0.5	0.5
Phenanthrene	ND	0.34	0.23	ND	100	100	100
Pyrene	.430	0.65	0.43	ND	100	100	100
VOLATILE ORGANIC COMPOUNDS (VOCs)							
Chloroform	0.00067	0.00064	0.00063	0.00067	0.37	10	49

Notes: All units in parts per million (ppm)
ND Analyte not detected
90.3 Analyte detected
118 Reported concentration greater than or equal to the NYSDEC Unrestricted SCO
3.75 Reported concentration greater than or equal to the NYSDEC Residential SCO
4.7 Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

TABLE 6
Sample and Analysis Summary

Soil

Sample ID	Analyses
RI-BH-1 through RI-BH-12	Target Compound List (TCL) VOCs + TICs (subsurface samples only), TCL SVOCs, Target Analyte List (TAL) Metals (Including total mercury, total cyanide, and hexavalent chromium), PCBs, TCL Pesticides, 1,4-dioxane, and Per & Polyfluoroalkyl Substances (PFAS)
RI-VP-1 through RI-VP-4 RI-VP-3 Native RI-VP-4 QA/QC	Target Compound List (TCL) VOCs + TICs (subsurface samples only), TCL SVOCs, Target Analyte List (TAL) Metals (Including total mercury, total cyanide, and hexavalent chromium), PCBs, TCL Pesticides, 1,4-dioxane, and Per & Polyfluoroalkyl Substances (PFAS)
RI-MW-1 through RI-MW-4	Target Compound List (TCL) VOCs + TICs (subsurface samples only), TCL SVOCs, Target Analyte List (TAL) Metals (Including total mercury, total cyanide, and hexavalent chromium), PCBs, TCL Pesticides, 1,4-dioxane, and Per & Polyfluoroalkyl Substances (PFAS)
RI-TT-1 (Tank Location)	Target Compound List (TCL) VOCs + TICs (subsurface samples only), TCL SVOCs, Target Analyte List (TAL) Metals (Including total mercury, total cyanide, and hexavalent chromium), PCBs, TCL Pesticides, 1,4-dioxane, and Per & Polyfluoroalkyl Substances (PFAS)
Drain 1 through Drain 4	TCL VOCs, SVOCs and Metals
D1 through D12	TCLP Metals, TCLP VOCs, and TCLP SVOCs

Vapor

Sample ID	Analyses
VP-1 through VP-4	TO-15 VOCs

Groundwater

Sample ID	Analyses
RI-MW-1 through RI-MW-3 and RI-MW-3 DUP	(TCL) VOCs + CP-51 list VOCs and TICs, TCL SVOCs, TAL Metals + Cyanide, PCBs, TCL Pesticides, 1,4-dioxane, and Per & Polyfluoroalkyl Substances (PFAS)

TABLE 1
PHASE II ESA - SUMMARY OF SOIL
ANALYTICAL RESULTS

Parameter Tested	BE3 Phase II Report April 2023 - Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date								NYSDEC Soil Cleanup Objectives (SCOs)				
	BH1 3-6	BH4 1-2	BH5 3-6	BH6 2-4	BH7 1-4	BH8 2-4	BH9 2-4	BH10 2-4	Unrestricted	Residential	Restricted Residential	Commerical	Industrial
	3/9/2023	4/3/2023											
METALS/INORGANICS													
Arsenic	1.8	5.1	4.5	4.9	4.0	4.7	6.0	3.6	13	16	16	16	16
Barium	20.9	**885**	**827**	**4950**	63	87.7	73	128	410	410	410	410	10,000
Beryllium	0.5	0.40	0.17 J	0.43	0.31	0.45	0.45	0.24	4.4	8.8	43	670	750
Cadmium	1.1	0.66	0.58	0.98	0.56	0.87	1.40	0.67	2.5	2.5	2.5	3.7	4.4
Chromium	4.9	13.7	14.6	18.4	9.8	16.0	13.2	15.8	30	30	110	1,700	2,000
Copper	8.9	18.7	16.1	25.6	16.8	22.8	19.0	17.7	50	280	280	280	10,000
Lead	**65**	**490**	**100**	**904**	**115**	**154**	**134**	**185**	63	400	400	1,000	3,900
Manganese	647	495 B	464 B	585 B	425 B	556 B	589 B	505 B	1,600	2,000	2,000	10,000	10,000
Mercury	**0.43**	0.13	0.33	**0.58**	0.24	**0.46**	**0.53**	**0.76**	0.18	0.26	0.26	1.1	1.1
Nickel	3.6 J	10.0	7.7	9.5	8.7	12.8	13.5	7.3	30	44	210	320	3,400
Selenium	1.2 J	ND	ND	ND	ND	ND	0.61 J	ND	4	22	110	1,700	2,000
Silver	ND	ND	0.27 J	0.34	ND	0.35 J	0.42 J	ND	2	22	110	1,700	2,000
Zinc	**324**	**394**	**476**	**638**	**241**	**331**	**441**	**241**	109	1,300	6,600	10,000	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)													
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	20	100	100	500	1,000
Acenaphthylene	ND	0.42 J	ND	2.7 J	0.27 J	ND	ND	ND	100	100	100	500	1,000
Anthracene	ND	1.1 J	ND	2.8 J	0.57 J	ND	0.93 J	ND	100	100	100	500	1,000
Benzo(a)anthracene	ND	**3**	ND	**9.8**	**1.9**	0.89 J	**1.8 J**	ND	1	1	1.4	37	37
Benzo(a)pyrene	ND	**2.8**	ND	**8.2**	**2.0**	0.79 J	**1.7 J**	0.41 J	1	1	1	3.7	3.7
Benzo(b)fluoranthene	ND	2.8	ND	11.0	2.3	0.9 J	**1.7 J**	0.46 J	1	1	1.4	37	37
Benzo(g,h,i)perylene	ND	**2**	ND	**5.40**	**1.30**	0.53 J	**0.82 J**	0.23 J	0.64	1.2	4.9	47	78
Benzo(k)fluoranthene	ND	**1.7 J**	ND	**4.70**	**0.88**	0.5 J	**1.0 J**	0.28 J	0.8	1.2	4.9	47	78
Chrysene	ND	**2.6**	ND	**10**	**1.8**	0.81 J	**1.6 J**	0.44 J	1	1.2	4.9	47	78
Dibenz(a,h)anthracene	ND	**0.47 J**	ND	**2.1 J**	**0.38 J**	ND	ND	ND	0.33	0.33	0.33	3.7	3.7
Dibenzofuran	ND	0.24 J	ND	0.48 J	ND	ND	ND	ND	2.1	4.2	18	180	290
Fluoranthene	0.31 J	7.1	ND	22.0	4.0	1.8 J	4.1	1.1 J	85	100	100	500	1,000
Fluorene	ND	0.3 J	ND	ND	ND	ND	0.29 J	ND	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	ND	**1.8**	ND	**5.3**	**1.1 J**	0.45 J	**0.76 J**	ND	0.5	0.5	1.4	37	37
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	12	84	100	500	1,000
Phenanthrene	ND	**4.7**	ND	**13.0**	**1.9**	0.77 J	**3.0**	0.56 J	1.1	1.2	4.9	47	78
Pyrene	0.26 J	4.6	ND	14.0	2.7	1.3 J	2.9	0.7 J	64	100	100	500	1,000
VOLATILE ORGANIC COMPOUNDS (VOCs)													
1,2,4-Trimethylbenzene	-	-	-	-	-	ND	ND	-	0.51	0.51	0.52	2.2	2.2
1,3,5-Trimethylbenzene	-	-	-	-	-	ND	ND	-	0.51	0.51	0.52	2.2	2.2
2-Butanone (MEK)	-	-	-	-	-	ND	0.0059 J	-	0.1	100	100	500	1,000
Acetone	-	-	-	-	-	0.009 J	0.052	-	0.03	100	100	500	1,000
Benzene	-	-	-	-	-	ND	0.00027 J	-	0.06	1.2	3.7	20	20
Chloroform	-	-	-	-	-	0.00051	0.00049 J	-	0.37	4.8	24	180	180
Ethylbenzene	-	-	-	-	-	ND	ND	-	1	32	76	390	390
Toluene	-	-	-	-	-	ND	ND	-	0.7	100	100	500	1,000
Xylenes, Total	-	-	-	-	-	ND	ND	-	0.26	100	100	500	1,000

ND Analyte not detected
\- Not Applicable or sample not tested for this analyte
J Estimated Concentration
B Analyte detected in method blank
K Result is reported as Benzo(b)fluoranthene
E Results exceeded calibration range
T Result is Tentatively Identifies Compound and an estimated value

Analyte detected
Reported concentration greater than or equal to the NYSDEC Unrestricted SCO
Reported concentration greater than or equal to the NYSDEC Residential SCO
Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO
Reported concentration greater than or equal to the NYSDEC Commercial SCO
Reported concentration greater than or equal to the NYSDEC Industrial SCO

Appendix A

1. View of the start of building demolition looking northeast

2. View of debris stockpile from building demolition looking southeast

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3. View of gutted existing building looking northeast

4. View of dust suppression during demolition

5. View of loading demolition debris

6. View of demolition on the southwest corner looking north

7. View of fencing installed around the perimeter of the site

8. View of gutted interior

9. View of loading demolition debris

10. View of gutted structure

BE3
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11. View of loading debris

12. View of gutted structure

13. Eastern portion of BCP site demolished

14. View of stockpiled debris

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15. View of exposed slab

16. View of loading debris

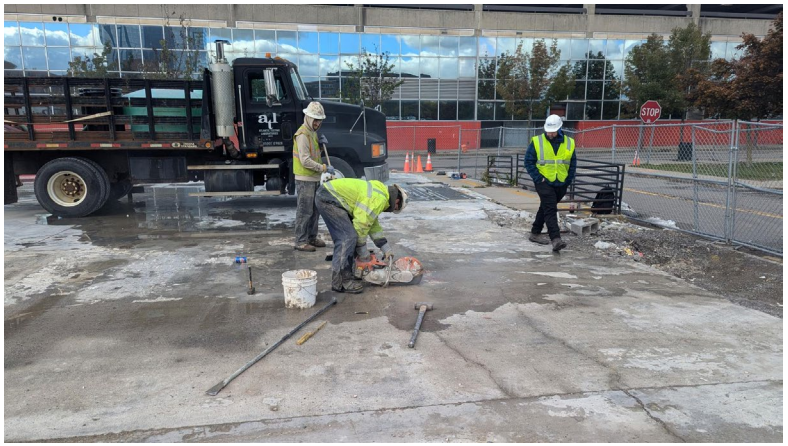
17. View of BCP site looking east

18. View of RI MW-3 location looking southeast

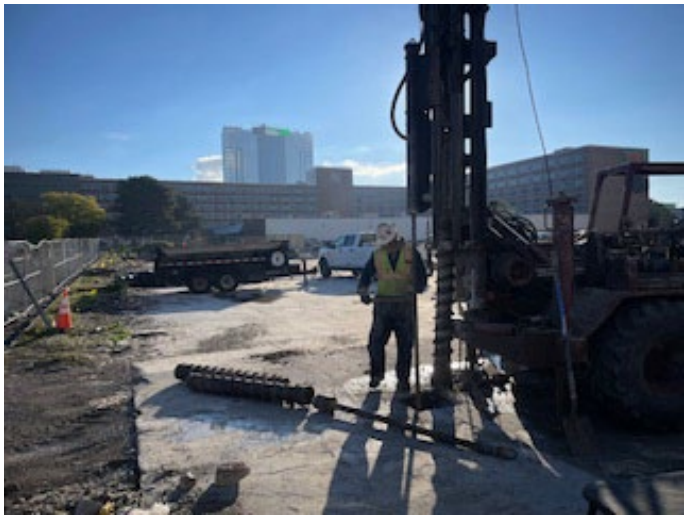
19. View of RI MW-3 location looking east

20. View of RI MW-3 split spoon

21. View of RI MW-3 split spoon



22. View of RI MW-1 location looking northwest



23. View of auguring at RI MW-1 location

24. View of RI MW-1 split spoon

25. View of RI MW-1 split spoon

26. View of auguring at RI MW-1 location

27. View of removing concrete from RI MW-4 location looking west

28. View of RI MW-4 split spoon spoils

29. View of RI MW-4 split spoon spoils

30. View of auguring at RI MW-2 location

31. View of RI MW-4 completed

32. View of RI MW-2 split spoon

33. View of steel casing for RI MW-2 location

34. View of RI MW-2 casing set

35. Coring at RI MW-3 begins

36. View of runs 1 through 3 at RI MW-3

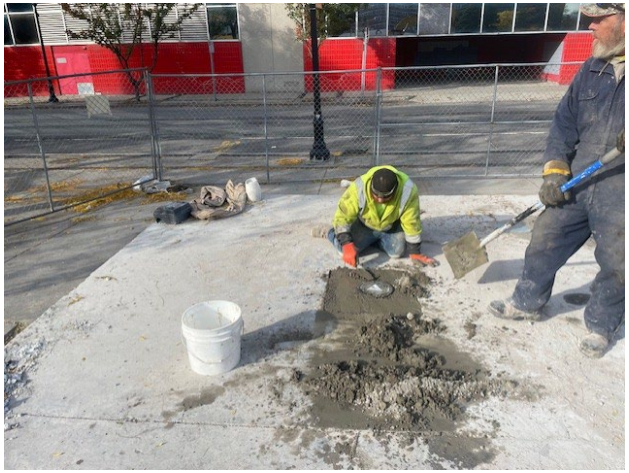
37. View of bedrock cores run 4 and 5 at RI MW-3

38. View of runs 5, 6 and 7 RI MW-3

39. View of run 8 RI MW-3

40. View of RI MW-2 set

41. View of RI MW-2 complete

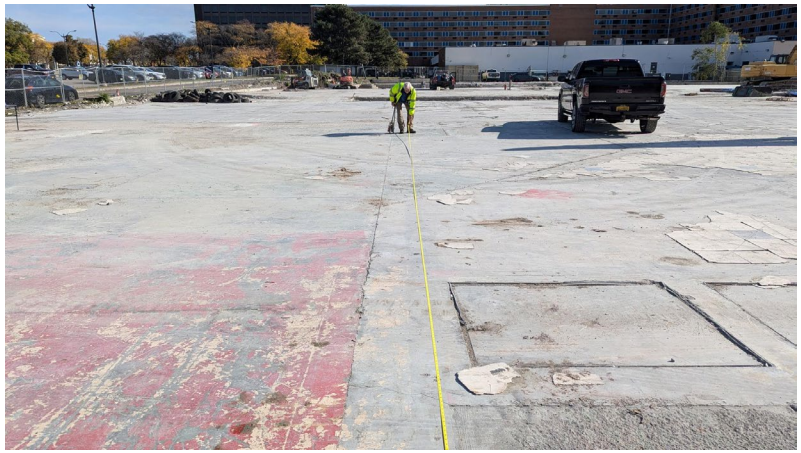


42. RI MW-3 complete

43. RI MW-1 complete

44. View cored concrete from vapor point

45. Coring at RI BH-4



46. Geophysical survey grid setting at UST location looking east

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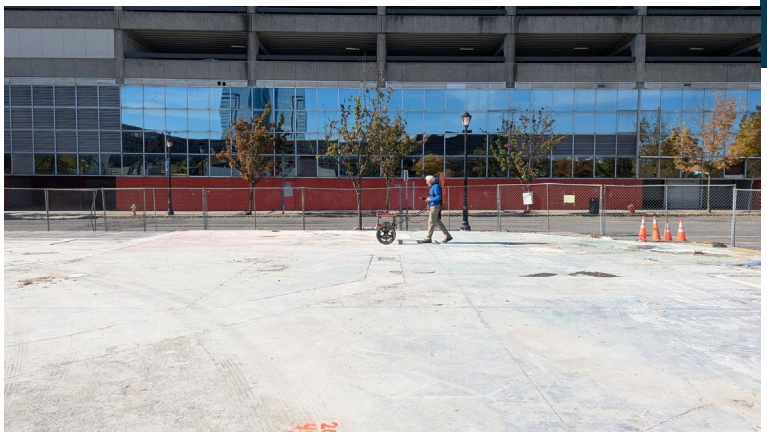
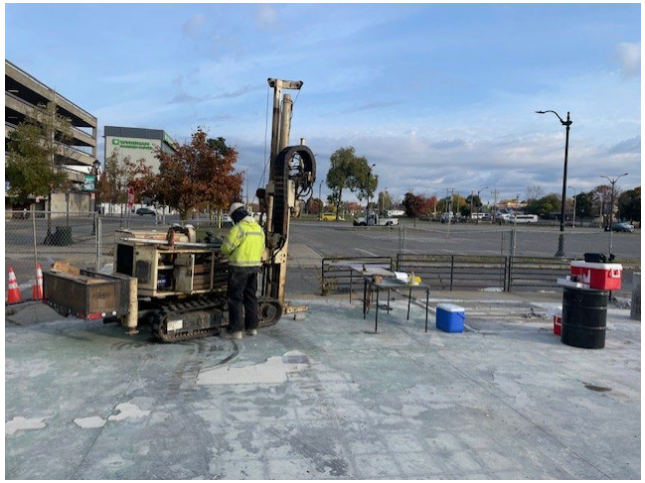


47. Conducting geophysical survey looking west



48. Begin geoprobe at RI BH-1 looking north

49. Spoils from RI BH-1

50. View of geoprobe spoils at RI BH-1

51. Geoprobe at RI BH-4 looking west

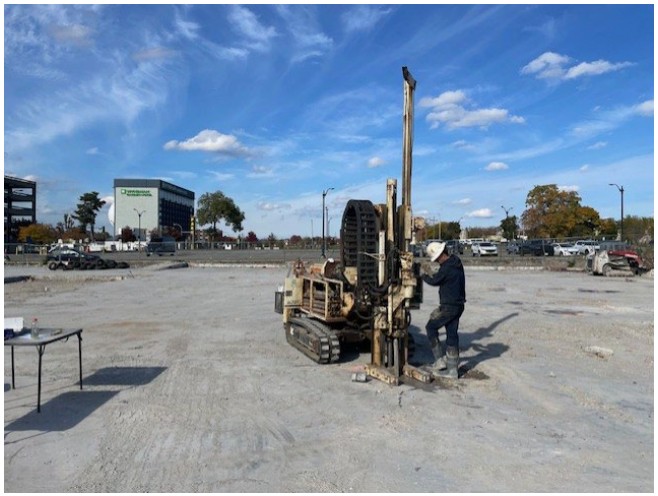
52. RI BH-4 spoils

53. Spoils from RI BH-4

54. View of geoprobe at RI BH-7

55. RI BH-7 spoils

56. RI BH-7 spoils



57. View of RI BH-10 geoprobe

58. View of RI BH-10 spoils

59. RI VP-4 with geoprobe

60. RI VP-4 spoils

61. View of RI VP-4 install

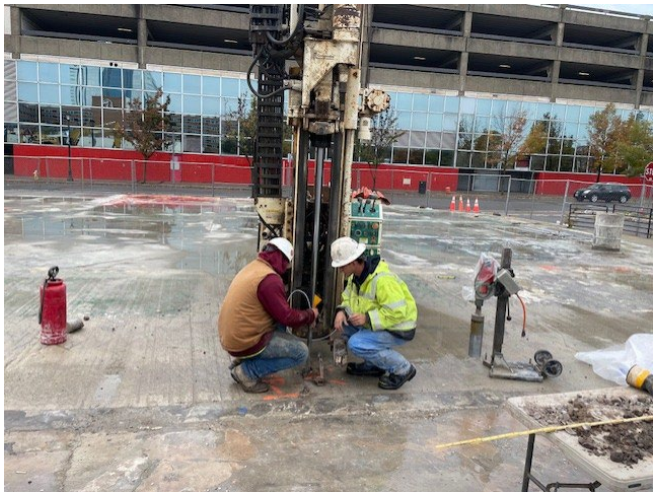
62. View of RI VP-2 location looking east

63. RI VP-2 spoils

64. View of vapor point with tubing

65. View of RI VP-1 location looking west

66. View of RI VP-1 spoils



67. RI VP-3 location

68. View of RI VP-3 spoils

69. View of RI BH-1 location looking west

70. View of RI BH-1 spoils, shallow refusal

71. RI BH-5 location

72. View of RI BH-5 spoils, shallow refusal

73. View of drill rig with auger and split spoon at RI BH-1 looking north

74. View of RI BH-1 spoils

75. RI BH-1 concrete at 3 feet

76. View of RI BH-1 spoils

77. View of drill rig with auger and split spoon at RI BH-9 looking west

78. View of RI BH-9 spoils, rock no soil

79. Moved RI BH-9 west 10 feet in hopes to avoid rock and collect soil sample representative of the location

80. View of RI BH-9 spoils

81. View of drill rig with auger and split spoon at RI BH-11 looking north

82. View of RI BH-11 spoils

83. RI BH-6 location looking east

84. View of RI BH-6 spoils

85. RI BH-3 location moved a few feet east onto the building pad due to access with the drill rig on the corner

86. View of RI BH-3 spoils

87. RI BH-11 location looking east

88. View of RI BH-11 spoils

89. RI BH-12 location looking north

90. View of RI BH-12 spoils

91. RI BH-12 spoils

92. View of RI BH-12 spoils

93. View of vapor sample collection RI VP-1

94. View of vapor sample collection RI VP-3

BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC

95. View of vapor sample collection RI VP-2

96. View of vapor sample collection RI VP-4

97. View of test trench location at suspect UST location

98. View of northern floor drain

99. View of southern floor drain

100. View of UST

101. View of UST

102. View of Test trench material returned

103. View of piping encountered on top of UST. 4.5ppm PID reading.

Appendix B

Maddan Geophysics LLC

November 4, 2024

Jacob Cox
BE3Corp
960 Busti Avenue
Suite B-150
Buffalo, New York, 14213

Transmitted via email to: Jacob Cox <jcox@be3corp.com>

Dear Mr. Cox:

Re: Geophysical Survey Results, 333 1st Street, Niagara Falls, NY

1.0 INTRODUCTION

This letter report presents the results of the geophysical investigation performed for BE3 Corp in support of their environmental investigation of a portion of the property located at 333 1st Street in Niagara Falls, NY (the Site). The primary purpose of the investigation was to explore for anomalies indicative of underground storage tanks (UST's).

The geophysical investigation was designed to geophysically characterize the subsurface and focus a follow-up intrusive investigation, if warranted. The information provided herein is intended to assist BE3Corp with their assessment of potential environmental concerns at the Site. Maddan Geophysics LLC (MADDAN) performed data acquisition on October 28, 2024.

2.0 METHODOLOGY

A reference grid was installed at the Site to facilitate data acquisition along parallel survey lines spaced 3 feet apart. The grid was marked with orange and white spray paint with select coordinates labeled to aid in the reoccupation of stations if necessary. Grid coordinate 0N,0E was established at the southwest corner of the survey area with grid north taken as the direction parallel to the western edge of concrete pad in the area.

Time Domain Electromagnetic Survey Methodology (EM61)

The Geonics EM61 was used to map the distribution of buried metals at the Site. The EM61 unit is a high sensitivity, high resolution time domain electromagnetic (TDEM) metal detector that can detect both ferrous and nonferrous metallic objects. It has an approximate investigation depth of 10 feet. The processing console is contained in a backpack worn by the operator which

is interfaced to a digital data logger. The transmitter and two receiver coils are located on a two-wheeled cart that is pulled by the operator.

EM61 in use (Photo not from this site)

The device's transmitter coil generates a pulsed primary EM field at a rate of 150 pulses per second, inducing eddy currents into the subsurface. The decay rates of these eddy currents are measured by two, 3.28 foot by 1.64 foot (1 meter by ½ meter) rectangular receiver coils. By taking the measurements at a relatively long time frame after termination of the primary pulse, the response is practically independent of the survey area's terrain conductivity. Specifically, the decay rates of the eddy currents are much longer for metals than for normal soils allowing the discrimination of the two.

Data are collected from the EM61's two receiver coils. One of the receiver coils is located coincident to the transmitter coil. The other receiver coil is located 1.31 feet (0.4 meters) above the transmitter coil. Data from the top receiver coil are stored on Channel 1 of a digital data logger. Data from the bottom receiver coil are stored on Channel 2 of the data logger. Channel 1 and Channel 2 data are simultaneously recorded at each station location. The instrument responses are recorded in units of milliVolts (mV). Data were recorded digitally by a data logger at a rate of approximately 2 measurements per foot along the survey lines which were spaced 3 feet apart.

3.0 RESULTS

The EM61 data for the Site are shown in Figure 1. Areas suspected to be free of buried metals are shown as color shades of blue. All areas exhibiting a response greater than background (0 to ~40 mVolts) likely contain buried metals. Surface features that may create anomalous responses (I-beams, monitoring wells, pipes, etc) are noted on the figure.

One anomaly is identified for potential further investigation and is labelled A on Figure 1.

Anomaly A is a buried metal anomaly located in the northwest area of the survey area. Anomaly A may represent a UST or remnants of USTs and associated appurtenances, items of potential environmental significance, or miscellaneous buried metals.

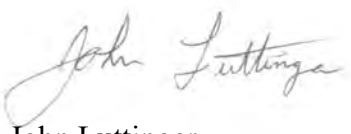
Any of the above background responses may be significant from an environmental perspective and these geophysical data should be viewed with recognition of the limitations of the technology employed.

4.0 LIMITATIONS

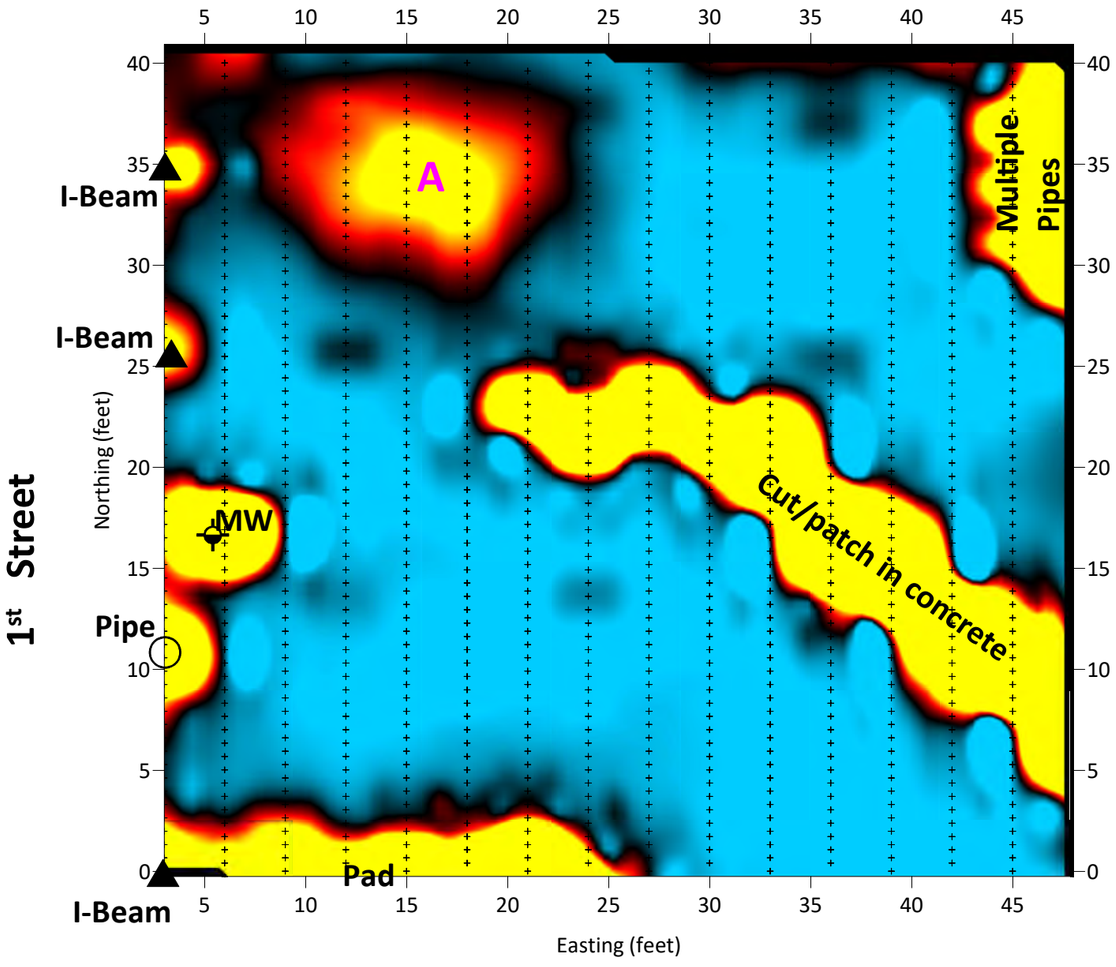
The geophysical methods used during this survey are established, indirect techniques for non-destructive subsurface reconnaissance exploration. As these instruments utilize indirect methods, they are subject to inherent limitations and ambiguities. Metallic surface features (electrical wires, scrap metal, etc.) preclude reliable non-invasive data/results beneath, and in the immediate vicinity of, the surface features. Targets such as buried drums, buried tanks, conduits, etc. are detectable only if they produce recognizable anomalies or patterns against the background geophysical data collected. As with any remote sensing technique, the anomalies identified during a geophysical survey should be further investigated by other techniques such as historical aerial photography, test pit excavation and/or test boring, if warranted.

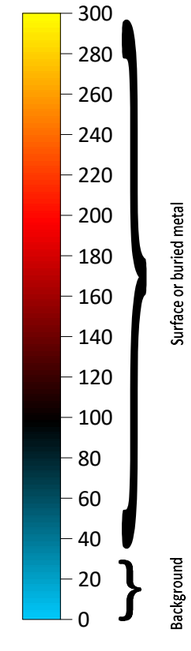
Please do not hesitate to contact us if you have any questions or require additional information.

Sincerely yours,
Maddan Geophysics, LLC



John Luttinger
President





A **Geophysical Anomaly for discussion**

The geophysical methods used during this survey are established, indirect techniques for non-destructive subsurface reconnaissance exploration. As these instruments utilize indirect methods, they are subject to inherent limitations and ambiguities. Metallic surface features preclude reliable non-invasive data/results beneath, and in the immediate vicinity of, the surface features. Targets such as buried drums, buried tanks, conduits, etc. are detectable only if they produce recognizable anomalies or patterns against the background geophysical data collected. As with any remote sensing technique, the anomalies identified during a geophysical survey should be further investigated by other techniques such as historical aerial photography, test pit excavation and/or test boring, if warranted.

Figure 1

Geophysical Survey Results
Color Contours of EM61 Data
(mVolts)
333 1ST Street
Niagara Falls, NY
BE3 Corp
Maddan Geophysics

Appendix C

LiRo Engineers, Inc.
A LiRo-Hill Company
690 Delaware Avenue, Buffalo, NY 14209 Telephone 716.882.5476 www.liro-hill.com

August 1, 2024

CERTIFICATE OF COMPLETION FOR REMOVAL OF ASBESTOS CONTAINING MATERIAL

Project: USA Niagara Development Corporation
217 Old Falls Street and 333 First Street Demo

Building Address: 217 Old Falls Street and 333 First Street
Niagara Falls, NY 14303

Asbestos Contractor: ACP Buffalo
1231 Delaware Ave.
Buffalo, NY 14209

Dates of ACM Removal Work: June 24, 2024 – August 1, 2024

Asbestos work area(s): Roof (mechanical penetrations and various areas – roofing tar) and South Elevation (Windows - Glazing)

Final Clearance Achieved on: July 23. 2024 (Windows) and August 1, 2024 (Roof Mechanical Penetrations)

The undersigned, Raymond Cich of LiRo Engineers Inc., hereby certifies that:

All identified Asbestos Containing Material (ACM) has been satisfactorily removed from the structures located at the above noted address. Removal of the ACM was conducted in accordance with the regulations of the New York State Department of Labor (NYSDOL), United States Environmental Protection Agency (USEPA), and the Occupational Safety and Health Administration (OSHA).

All asbestos work areas have achieved satisfactory completion of a Project Monitor Visual Inspection as per ASTM Standard E1368 (Standard Practice for Visual Inspection of Asbestos Abatement Projects) in accordance with Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York (12 NYCRR Part 56). ACM at the facility was limited to type and locations shown on design drawings AA-101 and AA-102, and were Exterior Non-Friable materials, therefore no air sampling was required to be conducted by applicable regulations.

Should you have any questions, please feel free to contact me at (716) 882-5476 ext. 462.

Sincerely,
LiRo Engineers, Inc.

Raymond Cich
Asbestos Project Monitor Certificate No. 24-6L6T3-SHAB

PRE-RENOVATION SURVEY

FOR

LEAD-BASED PAINT

AT

SMOKING JOES NATIVE CENTER
333 FIRST STREET AND 217 OLD FALLS STREET
NIAGARA FALLS, NEW YORK

OCTOBER 2018

PREPARED FOR:

USA Niagara Development Corporation
222 First Street, 7th Floor
Niagara Falls, New York

PREPARED BY:

WATTS
ARCHITECTURE &
ENGINEERING

95 Perry Street, Suite 300
Buffalo, New York 14203
p: 716.206.5100
f: 716.206.5199

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4.0 – CONSULTANT'S LICENSES AND CERTIFICATIONS

1.0 - EXECUTIVE SUMMARY

1.0 EXECUTIVE SUMMARY

Watts Architecture & Engineering (Watts) was retained by USA Niagara Development Corporation (USA Niagara) to perform a pre-renovation survey for lead-based paint (LBP) at the Smokin Joes Native Center located at 333 First Street and 217 Old Falls Street in Niagara Falls, New York.

Per information provided by the City of Niagara Falls, USA Niagara and representatives from Smokin Joes, the subject property consists of an approximate 85,423 square foot pre-engineered steel building that was used as a Native American Indian center and theater, buffet, coffee shop, souvenir store and as a small graphics art studio and clothing manufacturing operation. The structure consists of U-shaped building that wraps around the Niagara Falls First Presbyterian Church. The facility was reportedly built in approximately 1987 and was formerly a telecommunications/call center. The southwest wing was reportedly renovated in approximately 1996. The facility was renovated in approximately 2015 and was converted to the Smokin Joes Native center with a buffet, bar, kitchen, indoor miniature golf course, coffee shop, souvenir store and theater.

The purpose of the survey was to identify LBP at the facility as part of due diligence. LBP is defined, when analyzed by portable X-Ray Fluorescence (XRF) methods, as paint that contains lead at 1.0 milligram per square centimeter (1 mg/cm^2) or greater.

The field work for the lead-based paint (LBP) investigation included the following:

- A review of existing drawings with respect to the project limits and the proposed scope of work.
- A visual site inspection of the subject building to test representative surfaces for suspect lead-based paint (LBP).
- Utilization of a portable XRF analyzer to test representative surfaces for the presence of LBP or lead-containing materials (i.e. ceramic wall tile); and
- Documentation of tested areas with reference drawings.

TESTING METHODOLOGY

Painted building components were grouped by testing combinations. A testing combination is characterized by location, component type, substrate, and visible color. Refer to Section 2.1 for a complete listing of all XRF readings that were taken for this project.

For a typical lead-based paint evaluation, each XRF reading is identified by the side of the room it was collected from (North, East, South and West), the component analyzed, the substrate and the paint color of the visible paint film. Sides East, South and West progress in a clockwise direction from the North side. Watts utilized directional coordination for this evaluation. Refer to the reference drawings in Section 3.0 for floor plans referencing the different areas that were

tested as part of this project.

For the purposes of this project, the Occupational Safety & Health Administration's (OSHA) Lead in Construction Standard (29 CFR 1926.62) applies. This standard applies to all construction work where an employee may be occupationally exposed to lead. Construction work is defined as work for construction, alteration and/or repair, including painting and decorating. It includes but is not limited to the following:

- Demolition or salvage of structures where lead or materials containing lead are present;
- Removal or encapsulation of materials containing lead;
- New construction, alteration, repair, or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead;
- Installation of products containing lead;
- Lead contamination/emergency cleanup;
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed, and
- Maintenance operations associated with the construction activities.

XRF CALIBRATION

In order to field verify the calibration and accuracy of the XRF equipment, "calibration checks" are made both by the equipment itself and by the operator. Before the XRF will allow any testing for lead-based paint, it requires a "standardization" reading. This is accomplished by placing the standardization clip over the end of the XRF when prompted by the XRF. Upon the completion of the standardization reading, the XRF will display a Pass or Fail result. If the standardization is successful, the operator checks the calibration of the XRF against National Institute of Standards and Technology (NIST) lead samples that were provided by the manufacturer. The operator's calibration checks are taken at the beginning and the end of the testing period, and approximately every four hours, if necessary. The calibration checks are acceptable if the average of the readings is between 1.0 and 1.1 mg/cm^2. All standardization and calibration readings were within the acceptable limits for the readings collected for this project.

FINDINGS

Representative XRF readings were taken on representative surfaces of all building components throughout the facility and exterior.

None of the building components at the Smokin Joes Native Center were identified to be lead-containing or to be coated with lead-based paint.

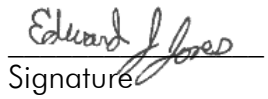
The following building components at the Smokin Joes Native Center were determined to be coated with non-lead-based paint:

- Interior and exterior window frames.
- Window sills.
- Interior and exterior door frames.
- Wood, metal and fiberglass doors.
- Drywall surfaces with a variety of colors on walls, soffits, ceilings and the circular ceiling detail in the buffet area, all office areas, buffet, theater, displays and corridors.
- Ceramic wall tiles in bathrooms (non-lead glazing).
- Ceramic floor tiles in bathrooms (non-lead glazing).
- Painted exterior stucco walls and columns.
- Handrails.
- Painted murals on the concrete floor.
- Concrete floors in the buffet area, south display area and theater.
- Painted 12″ x 12″ floor tiles.
- Wood platforms on the theater stage.
- Paint on support steels to roof-mounted components.
- Metal caps on the roof parapets.
- Metal foil membrane on the roof decks.
- Metal roof decks.

This report is based primarily on the results of visual site observations and a general survey of the conditions at the Smokin Joes Native Center in Niagara Falls, New York. Watts did not perform a comprehensive inspection (room by room) of all interior and exterior building components. Representative XRF readings were taken from each distinct type of building component associated with each building in order to be able to determine if those components were covered with lead-based paint.

The lead-based paint survey was performed by Watts' personnel on October 10, 2018.

Edward J. Jones
Lead Inspector


Signature

NY-R-128144-1
Certification Number

Facility Address and Date(s) of Construction:	333 First Street and 217 Old Falls Street Niagara Falls, NY Constructed approximately 1987 Renovated approximately 1996 and 2016

2.0 – LEAD-BASED PAINT

2.1 – X-RAY FLUORESCENCE (XRF) ANALYZER LEAD DATA TABLE

XRF READINGS
SMOKIN JOES NATIVE CENTER
333 THIRD STREET AND 217 OLD FALLS STREET, NEW YORK

Testing Dates: October 10, 2018 Innov-X Serial No. 571370

Reading	Room	Side	Component	Substrate	Color	Condition	Floor	Results (mg/cm^2)
1	Standardization							Pass
2	Calibration							1.04
3	Calibration							1.05
4	Calibration							1.05
5	South Entrance	North	Wall	Drywall	Beige	Cracked	First	0
6	South Entrance	South	Wall	Drywall	Beige	Cracked	First	0
7	South Entrance	South	Window Frame	Metal	Black	Intact	First	0
8	South Entrance	South	Window Sill	Fiberglass	Black	Intact	First	0
9	Standardization							Pass
10	South Entrance	West	Door	Plastic	Black	Intact	First	0
11	South Entrance	West	Door Casing	Fiberglass	Black	Intact	First	0
12	South Entrance	N/A	Floor	Concrete	Yellow	Intact	First	0
13	South Entrance	N/A	Ceiling	Drywall	Beige	Intact	First	0
14	South Entrance	N/A	Ceiling	Drywall	Beige	Intact	First	0
15	South Entrance	South	Door Casing	Metal	Black	Intact	First	0
16	South Entrance	South	Door	Metal	Black	Intact	First	0
17	South Display Area	North	Column	Drywall	Yellow	Intact	First	0
18	Coffee Storage	North	Wall	Drywall	Purple	Intact	First	0
19	Southeast Mini Golf	North	Wall	Drywall	Black	Intact	First	0
20	Southeast Mini Golf	N/A	Floor	12" Floor Tile	Black	Intact	First	0
21	Southeast Mini Golf	West	Floor	12" Floor Tile	Purple	Intact	First	0
22	Southeast Mini Golf	North	Wall	Drywall	Green	Intact	First	0

XRF READINGS
SMOKIN JOES NATIVE CENTER
333 THIRD STREET AND 217 OLD FALLS STREET, NEW YORK

Testing Dates: October 10, 2018 Innov-X Serial No. 571370

Reading	Room	Side	Component	Substrate	Color	Condition	Floor	Results (mg/cm^2)
23	Southeast Mini Golf	North	Wall	Drywall	Red	Intact	First	0
24	Southeast Mini Golf	South	Wall	Drywall	Beige	Intact	First	0
25	South Display Area	East	Wall	Drywall	Beige	Intact	First	0
26	South Display Area	South	Wall	Drywall	Purple	Intact	First	0
27	South Display Area West Cases	West	Window Casing	Metal	Black	Intact	First	0
28	South Display Area West Cases	West	Door Casing	Metal	Black	Intact	First	0
29	South Display Area Wall Mural	East	Wall	Drywall	Green	Intact	First	0
30	South Display Area Floor Mural	N/A	Floor	Concrete	Black	Intact	First	0
31	South Display Area Floor Mural	N/A	Floor	Concrete	White	Intact	First	0
32	South Display Area Floor Mural	N/A	Floor	Concrete	Beige	Intact	First	0
33	South Display Area Floor Mural	N/A	Floor	Concrete	Yellow	Intact	First	0
34	South Men's Toilet	East	Wall	Ceramic	White	Intact	First	0.01
35	South Men's Toilet	East	Wall	Ceramic	Black	Intact	First	0
36	South Men's Toilet	East	Floor	Ceramic	Grey	Intact	First	0.01
37	South Men's Toilet	East	Stall Wall	Fiberglass	Black	Intact	First	0
38	South Women's Toilet	East	Stall Door	Metal	Black	Intact	First	0
39	South Women's Toilet	N/A	Floor	Ceramic	Grey	Intact	First	0

XRF READINGS
SMOKIN JOES NATIVE CENTER
333 THIRD STREET AND 217 OLD FALLS STREET, NEW YORK

Testing Dates: October 10, 2018 Innov-X Serial No. 571370

Reading	Room	Side	Component	Substrate	Color	Condition	Floor	Results (mg/cm^2)
40	South Women's Toilet	North	Wall	Ceramic	White	Intact	First	0.01
41	South Women's Toilet	North	Wall	Ceramic	Brown	Intact	First	0.01
42	South Women's Toilet	North	Wall	Ceramic	Green	Intact	First	0
43	South Women's Toilet	East	Door Casing	Metal	Black	Intact	First	0
44	South Women's Toilet	East	Door	Wood	Black	Intact	First	0
45	Buffet Area	West	Wall	Drywall	Beige	Intact	First	0
46	Buffet Area	North	Wall	Drywall	Beige	Intact	First	0
47	Buffet Area	East	Wall	Drywall	Beige	Intact	First	0
48	Buffet Area	North	Window Casing	Metal	Black	Intact	First	0
49	Buffet Area	North	Wall	Drywall	Red	Intact	First	0
50	Buffet Area	N/A	Floor	Concrete	Yellow	Intact	First	0
51	Kitchen	East	Floor	Drywall	Beige	Intact	First	0
52	Kitchen	West	Floor	Drywall	Beige	Intact	First	0
53	Bar East of Buffet Area	Cap on Half Wall	Wall	Wood	Black	Intact	First	0
54	Bar East of Buffet Area	Column at Bar	Column	Drywall	Yellow	Intact	First	0
55	Bar East of Buffet Area	Column at Bar	Column	Drywall	Yellow	Intact	First	0
56	Buffet Area	Column at Buffet	Column	Drywall	White	Intact	First	0
57	Buffet Area	Column at Buffet	Column	Drywall	White	Intact	First	0
58	Buffet Area	N/A	Floor	Concrete	Peach	Intact	First	0
59	Buffet Area	Lower Ceiling	Soffit	Drywall	Red	Intact	First	0
60	Buffet Area	Lower Ceiling	Soffit	Drywall	Orange	Intact	First	0
61	Buffet Area	North	Door Casing	Metal	Black	Intact	First	0
62	Buffet Area	North	Door	Metal	Black	Intact	First	0
63	Buffet Area	North	Railing	Metal	Black	Intact	First	0.03
64	Buffet Area	North	Window Sill	Wood	Black	Intact	First	0

XRF READINGS
SMOKIN JOES NATIVE CENTER
333 THIRD STREET AND 217 OLD FALLS STREET, NEW YORK

Testing Dates: October 10, 2018 Innov-X Serial No. 571370

Reading	Room	Side	Component	Substrate	Color	Condition	Floor	Results (mg/cm^2)
65	Buffet Area	North	Window Sill	Wood	Black	Intact	First	0
66	Buffet Area	Lower Ceiling	Soffit	Drywall	Green	Intact	First	0
67	Northwest Lobby	North	Wall	Drywall	White	Intact	First	0
68	Northwest Lobby	North	Chair Rail	Wood	Black	Intact	First	0
69	Northwest Lobby	South	Wall	Drywall	Red	Intact	First	0
70	Northwest Lobby	North	Soffit	Drywall	Yellow	Intact	First	0
71	Northwest Lobby	East	Wall	Drywall	Purple	Intact	First	0
72	Northwest Lobby to Buffet	East	Casing	Metal	Black	Intact	First	0
73	Northwest Lobby to Buffet	East	Door	Metal	Black	Intact	First	0
74	Northwest Lobby	South	Soffit	Drywall	Green	Intact	First	0
75	Northwest Lobby	South	Soffit	Drywall	Green	Intact	First	0
76	Northwest Corridor to North Toilets	N/A	Ceiling	Drywall	Green	Intact	First	0
77	Reception by North Toilets	N/A	Ceiling	Drywall	White	Intact	First	0
78	Reception by North Toilets	N/A	Soffit	Drywall	Yellow	Intact	First	0
70	Reception by North Toilets	North	Wall	Drywall	Red	Intact	First	0
80	Reception by North Toilets	South	Wall	Drywall	Beige	Intact	First	0
81	Reception by North Toilets	East	Wall	Drywall	Purple	Intact	First	0
82	Corridor at North Toilets	West	Wall	Ceramic	White	Intact	First	0.01
83	North Men's Toilet	West	Wall	Ceramic	Brown	Intact	First	0.01

XRF READINGS
SMOKIN JOES NATIVE CENTER
333 THIRD STREET AND 217 OLD FALLS STREET, NEW YORK

Testing Dates: October 10, 2018 Innov-X Serial No. 571370

Reading	Room	Side	Component	Substrate	Color	Condition	Floor	Results (mg/cm^2)
84	North Men's Toilet	N/A	Floor	Ceramic	Grey	Intact	First	0.01
85	North Women's Toilet	N/A	Floor	Ceramic	Grey	Intact	First	0
86	North Women's Toilet	South	Wall	Ceramic	White	Intact	First	0.01
87	North Women's Toilet	South	Wall	Ceramic	Black	Intact	First	0
88	North Women's Toilet	South	Wall	Ceramic	Green	Intact	First	0
89	Northwest Vestibule	North	Wall	Drywall	White	Intact	First	0
90	Northwest Vestibule	West	Casing	Metal	Black	Intact	First	0
91	Northwest Vestibule	West	Door	Metal	Black	Intact	First	0
92	Northwest Vestibule	N/A	Ceiling	Drywall	White	Intact	First	0
93	Northwest Vestibule	North	Wall	Drywall	Yellow	Intact	First	0
94	Office South of Northwest Vestibule	North	Wall	Drywall	Yellow	Intact	First	0
95	Office South of Northwest Vestibule	North	Casing	Wood	Black	Intact	First	0
96	Office South of Northwest Vestibule	North	Door	Wood	Black	Intact	First	0
97	Northwest Office	North	Wall	Drywall	Yellow	Intact	First	0
98	Northwest Office	East	Wall	Drywall	Yellow	Intact	First	0
99	Northwest Graphics Studio	West	Wall	Drywall	Beige	Intact	First	0
100	Northwest Graphics Studio	South	Wall	Drywall	Beige	Intact	First	0

XRF READINGS
SMOKIN JOES NATIVE CENTER
333 THIRD STREET AND 217 OLD FALLS STREET, NEW YORK

Testing Dates: October 10, 2018 Innov-X Serial No. 571370

Reading	Room	Side	Component	Substrate	Color	Condition	Floor	Results (mg/cm^2)
101	Northwest Graphics Studio	South	Door Casing	Metal	Black	Intact	First	0
102	Northwest Graphics Studio	South	Wood	Door	Black	Intact	First	0
103	Northwest Office by Buffet	East	Wall	Drywall	White	Intact	First	0
104		North	Wall	Drywall	White	Intact	First	0
105	Standardization							Pass
106	Northwest Office by Buffet	South	Wall	Drywall	White	Intact	First	0
107	Northwest Office by Buffet	East	Wall	Drywall	White	Intact	First	0
108	Northwest Office by Buffet	North	Window Frame	Metal	Black	Intact	First	0
109	Northwest Office by Buffet	North	Window Sill	Wood	Black	Intact	First	0
110	Theater	North	Wall	Drywall	White	Intact	First	0
111	Theater	West	Wall	Drywall	White	Intact	First	0
112	Theater	East	Wall	Drywall	White	Intact	First	0
113	Theater	East	Wall	Drywall	Purple	Intact	First	0
114	Theater	East	Wall	Drywall	Black	Intact	First	0
115	Theater	West	Wall	Drywall	Black	Intact	First	0
116	Theater	South	Bridge	Wood	Black	Intact	First	0
117	Theater	N/A	Floor	Concrete	Peach	Intact	First	0
118	Theater	South	Wall	Drywall	Beige	Intact	First	0
119	Bar East of Buffet Area	East	Handrail	Metal	Black	Chipped	First	0
120	Bar East of Buffet Area	East	Handrail	Metal	Black	Intact	First	0.01
121	Kitchen	East	Floor	Concrete	Peach	Pitted	First	0
122	Kitchen	South	Ladder	Metal	Black	Chipped	First	0.01
123	Roof	East	Roof Membrane	Metal	Silver	Peeling	Roof	0

XRF READINGS
SMOKIN JOES NATIVE CENTER
333 THIRD STREET AND 217 OLD FALLS STREET, NEW YORK

Testing Dates: October 10, 2018 Innov-X Serial No. 571370

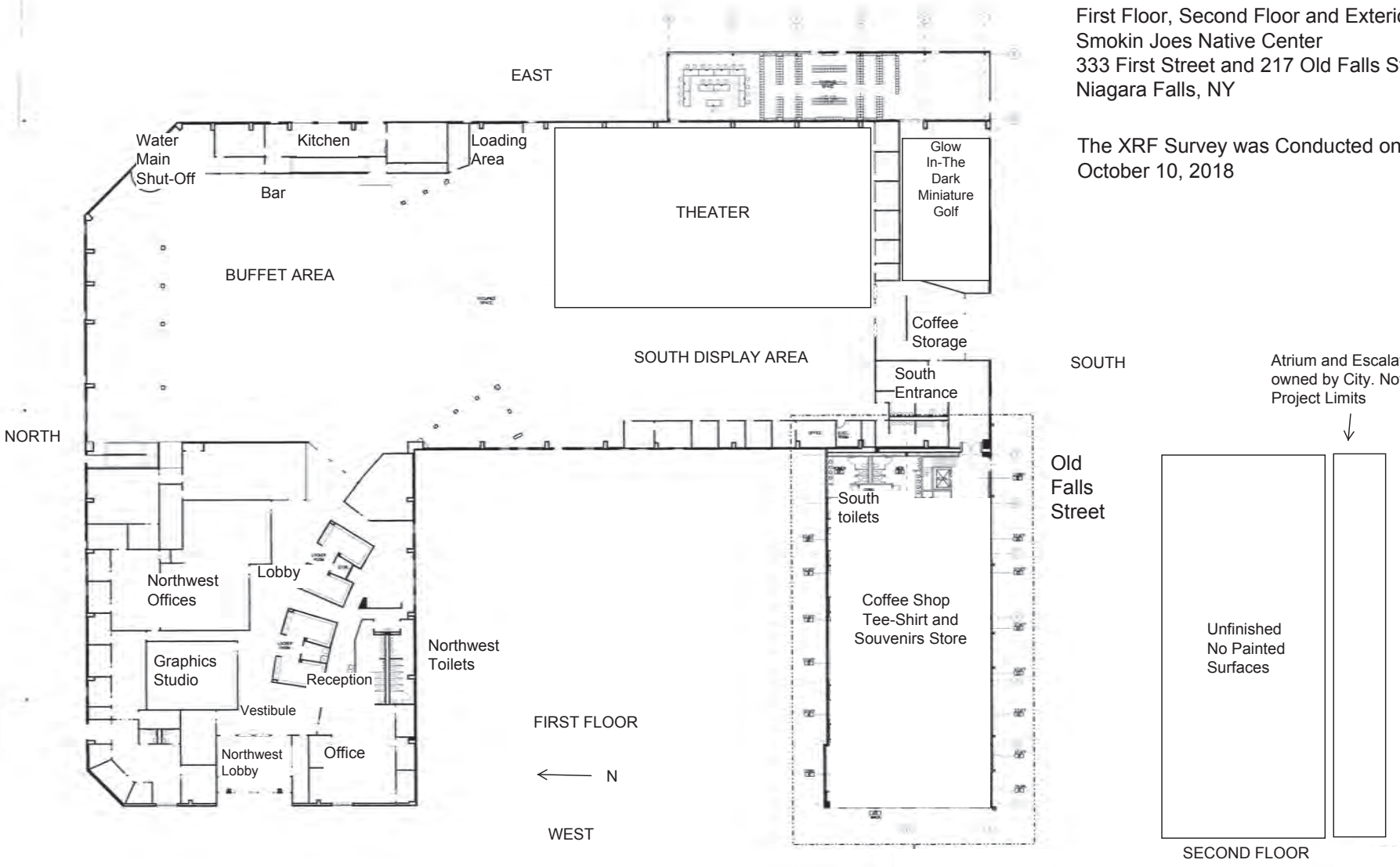
Reading	Room	Side	Component	Substrate	Color	Condition	Floor	Results (mg/cm^2)
124	Roof	South	HVAC Support	Metal	Red	Peeling	Roof	0.01
125	Roof	West	Roof Membrane	Metal Foil on Parapet	Silver	Peeling	Roof	0
126	Roof	South	Metal Foil on Parapet	Membrane on Parapet	Silver	Intact	Roof	0
127	Roof	South	Cap on Parapet	Metal	Brown	Peeling	Roof	0
128	Roof	West	Cap on Parapet	Metal	Brown	Peeling	Roof	0
129	Roof	North	Cap on Parapet	Metal	Brown	Peeling	Roof	0
130	Roof	N/A	Roof Deck	Metal	Brown	Intact	Roof	0
131	Roof	South	Roof Deck	Metal	Brown	Intact	Roof	0
132	Roof	South	Window Casing	Metal	Grey	Worn, Chipped	Exterior	0
133	South Atrium	West	Wall	Stucco	Red	Intact	Exterior	0
134	West Exterior	West	Wall	Stucco	Pink	Intact	Exterior	0
135	West Exterior	West	Wall	Stucco	Beige	Intact	Exterior	0
136	West Exterior	West	Wall	Stucco	Beige	Intact	Exterior	0
137	West Exterior	West	Window Casing	Metal	Black	Intact	Exterior	0
138	West Exterior	West	Window Casing	Metal	Black	Intact	Exterior	0
139	North Exterior	North	Wall	Stucco	Purple	Intact	Exterior	0
140	North Exterior	North	Door	Metal	Black	Intact	Exterior	0
141	North Exterior	North	Door Casing	Metal	Black	Intact	Exterior	0
142	Calibration							1.04
143	Calibration							1.07
144	Calibration							1.04

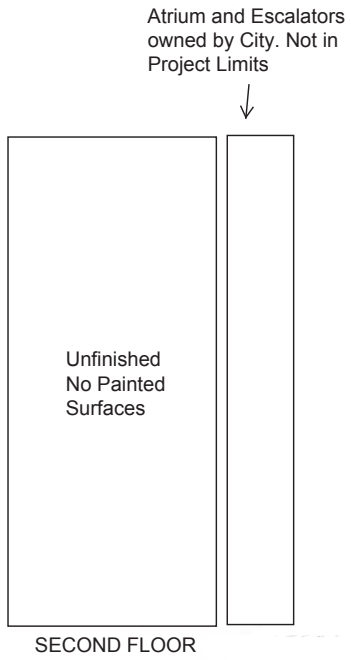
Bold Exceeds 1.0 mg/cm^2

3.0 – XRF TESTING REFERENCE DRAWING

XRF Lead-Based Paint Refernce Drawing
First Floor, Second Floor and Exterior
Smokin Joes Native Center
333 First Street and 217 Old Falls Street
Niagara Falls, NY

The XRF Survey was Conducted on
October 10, 2018





4.0 - CONSULTANT'S LICENSES AND CERTIFICATIONS

120 E. Washington St., Suite 414
Syracuse, NY 13202

95 Perry Street, Suite 300
Buffalo, NY 14203

315 5th Ave, 11th Floor
New York, NY 10016

United States Environmental Protection Agency

This is to certify that

Watts Architecture & Engineering

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires May 21, 2021

LBP-1952-1
Certification #

January 24, 2018
Issued On

Michelle Price, Chief
Lead, Heavy Metals, and Inorganics Branch

120 E. Washington St., Suite 414
Syracuse, NY 13202

95 Perry Street, Suite 300
Buffalo, NY 14203

315 5th Ave, 11th Floor
New York, NY 10016

State of New York
Department of Health

CERTIFICATE OF REGISTRATION

This certificate is to certify that the following Radiation Installation is registered at the premises indicated pursuant to section 16.50 of the New York State Sanitary Code. This certificate must be conspicuously displayed at the Radiation Installation.

Registration Number
14023601

WATTS ARCHITECTURE AND ENGINEERINC
95 PERRY STREET
SUITE 300
BUFFALO NY 14203

Maximum inspection interval for installation type of Commercial is 4 years

Registration period begins December 8, 2017 and expires December 8, 2019

Director, Bureau of Environmental Radiation Protection

Howard Zucker M.D.
Commissioner

DOH-3376 (04/200 RI 217381

WATTS ARCHITECTURE & ENGINEERING

120 E. Washington St., Suite 414
Syracuse, NY 13202

95 Perry Street, Suite 300
Buffalo, NY 14203

315 5th Ave, 11th Floor
New York, NY 10016

United States Environmental Protection Agency

This is to certify that

Edward J Jones

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

New York

This certification is valid from the date of issuance and expires January 02, 2019

NY-R-128144-2
Certification #

December 22, 2015
Issued On

John Gorman, Chief
Pesticides & Toxic Substances Branch

PRE-RENOVATION SURVEY

FOR

ASBESTOS-CONTAINING MATERIALS

AT

SMOKIN JOES NATIVE CENTER
333 FIRST STREET AND 217 OLD FALLS STREET
NIAGARA FALLS, NEW YORK

OCTOBER 2018

PREPARED FOR:

USA Niagara Development Corporation
222 First Street, 7th Floor
Niagara Falls, New York

PREPARED BY:

WATTS
ARCHITECTURE &
ENGINEERING

95 Perry Street, Suite 300
Buffalo, New York 14203
p: 716.206.5100
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4.0 – CONSULTANT'S LICENSES AND CERTIFICATIONS

1.0 – EXECUTIVE SUMMARY

1.0 EXECUTIVE SUMMARY

Watts Architecture & Engineering (Watts) was retained by USA Niagara Development Corporation (USA Niagara) to perform a pre-renovation survey for asbestos-containing materials (ACM) at the Smokin Joes Native Center located at 333 First Street and 217 Old Falls Street in Niagara Falls, New York.

The purpose of the survey was to identify ACM at the facility and as part of the due diligence process as part of property acquisition. Watts was not authorized to perform destructive testing such as but not limited to: disassembly/cutting of equipment and utilities; demolition of walls/ceilings to inspect for concealed suspect ACM; coring of floor slabs and sub floors; excavation of perimeter concrete/asphalt to expose foundation walls; etc.. Suspect ACM that may be associated with destructive methods such as these is not represented in this report. Prior to any renovation or demolition activities, it is recommended that testing of this nature be performed to ensure that ACM is not disturbed.

Per information provided by the City of Niagara Falls, USA Niagara and representatives from Smokin Joes, the subject property consists of an approximate 85,423 square foot pre-engineered steel building that was used as a Native American Indian center and theater, buffet, coffee shop, souvenir store and as a small graphics art studio and clothing manufacturing operation. The structure consists of U-shaped building that wraps around the Niagara Falls First Presbyterian Church. The facility was reportedly built in approximately 1987 and was formerly a telecommunications/call center. The southwest wing was reportedly renovated in approximately 1996. The facility was renovated in approximately 2015 and was converted to the Smokin Joes Native center with a buffet, bar, kitchen, indoor miniature golf course, coffee shop, souvenir store and theater. At the time of the Watts' site visits the coffee shop and souvenir store were open seasonally and the graphic arts operation was in the process of re-locating to another off-site location. The theater, buffet, bar and kitchen operations had ceased and equipment associated with operations was in the process of being sold or moved off-site.

Field survey work for this asbestos survey was conducted by Watts' personnel on October 3 - 16, 2018 and included the following:

- A visual site inspection to identify suspect ACM within the proposed project limits.
- Collection and laboratory analysis of bulk samples from each identified suspect material within the proposed project limits for ACM.
- Documentation of bulk sample locations on site drawings and chain-of-custody forms; and
- Photographs.

ASBESTOS-CONTAINING MATERIALS

The inspection included the collection of one hundred-forty (140) bulk samples of suspect ACM materials identified at the subject property. ACM is defined as any material containing more than one percent (1%) of asbestos.

Based on the laboratory analysis and visual observations, **the following materials at the Smokin Joes Native Center have been identified as ACM:**

- **Gray-black tar at the base of roof-mounted HVAC components, curbs, vent pipes and access hatch.** The tar was observed on the support bases for the roof-mounted heating and air conditioning units, ventilation fans, elevated curbs (former component locations) and at the base of vent pipes across the roofs (both the main north-south roof and the separate but attached southwest building roof). There are approximately 34 HVAC components, 11 round vents with square curbs and 23 vent pipes/support pipes on the roof. The tar was observed or assumed to be present beneath metal foil jackets at the base of all roof mounted air conditioning units, heating equipment, vents, pipes and curbs and extending onto the adjacent metal roof. A total of approximately 965 square feet of asbestos-containing tar is present. The tar was observed to be non-friable and to be to be in fair condition.

- **Gray-black tar on the south parapet cap for the north-south wing.** The tar was limited to the west half of the far south end parapet cap, extending to but not past the roof peak. Approximately 32 square feet of asbestos-containing tar was observed at this location. The tar was observed to be non-friable and to be in fair condition.

- **Gray-black tar along the east edge of the southwest roof and extending onto the adjacent north-south roof**. The tar extended approximately 2 feet along the roof edge and along the roof drain along the east edge of the southwest roof. The same tar continued as patches on the southwest edge of the adjacent north-south roof. Approximately 130 square feet of tar was observed along the east edge of the southwest roof and approximately 120 square feet was observed on the adjacent west edge of the north-south roof, totaling approximately 250 square feet. The tar was observed to be non-friable and to be in fair condition.

NON-ASBESTOS-CONTAINING MATERIALS

The following materials have been determined to be non-ACM:

- 12″ x 12″ beige floor tiles and associated mastic.
- 12″ x 12″ tan floor tiles (lower layer beneath 12″ x 12″ floor tiles in vestibule/lobby areas) and associated mastic.
- Leveling compound beneath 12″ x 12″ beige floor tiles.

Non-ACM Materials (Continued)

- 12″ x 12″ beige floor tiles with multi-colored streaks and associated mastic.
- 12″ x 12″ yellow floor tiles and associated mastic.
- 4″ black cove base and associated mastic.
- Drywall, joint compound and paper tape on ceilings.
- Drywall, joint compound and paper tape on walls.
- Glazing compound on door and windows of storefront entrance.
- Glazing compound on 2nd floor storefront windows.
- Caulk on exterior metal door frames.
- 2′ x 2′ rough finish ceiling tile.
- Carpet adhesive on concrete.
- Grout and thin set associated with 4″ ceramic wall tiles.
- Grout and set coat associated with 8″ x 8″ gray ceramic floor tiles.
- Bathroom caulk (Men's and Women's Bathrooms.)
- 2′ x 4′ pin hole and slot pattern ceiling tile.
- 2′ x 4′ ceiling tiles with faux 2′ x 2′ pattern.
- 2′ x 2′ hard suspended ceiling tile.
- Yellow epoxy coating on concrete floor.
- Gaskets at water supply line valves and gasket flanges.
- Butt end sealant on fiberglass insulated piping.
- Paper and foil jackets on fiberglass insulation on piping.
- Wall panel adhesive on drywall.
- Gray flange sealant on sheet metal HVAC ducts.
- Black tar sealant on the metal deck beneath metal foil.
- Brown tar patch on screw heads of roof peak.
- Black tar and rubber 12″ x 12″ patches on the metal roof*.
- Black caulk on screw heads-southwest roof.
- Black tar and rubber patches-far west parapet southwest roof.
- Black tar seam on the west concrete parapet north-south wing roof.

Non-ACM Materials (Continued)

- Black window frame caulk-exterior windows.
- Exterior stucco.
- Spray-on fireproofing on columns and beams.
- Soft black window glazing compound in windows set in fire doors*.
- Soft gray caulk beneath the metal cap on roof edges.

*All Contractors shall note these materials had detectable levels of asbestos present but were found to be less than or equal to less than 1% total asbestos. Therefore, these materials are classified as Non-ACM. Contractors shall follow Federal regulations including those established for OSHA for work involving such non-ACM asbestos materials.

OBSERVATIONS

The circa 2015 renovations for the Smokin Joes Cultural center included repainting of existing walls, new floor tiles, ceiling tiles, renovations to bathrooms and the theater, kitchen, bar and native Indian cultural display areas. The building materials associated with the renovations were sampled separately from earlier materials and were determined to be non-ACM. Building materials associated with the original building materials (such as drywall, joint compound and 12" x 12" beige floor tiles and suspended ceiling tiles) were also determined to be non-ACM.

Spray-on fireproofing was collected from beams and columns from first floor areas and from the unfinished second floor. No asbestos or vermiculite was detected in samples of the spray-on fireproofing.

The facility does not have a basement. Hand-dug test excavations at the foundation did not reveal evidence of suspect ACM waterproofing on the foundation.

The windows on the facility were of similar style and materials. No asbestos was detected in window or storefront-style window/door system sealanats.

Steel fire doors were located in the facility. The fire doors did not have any suspect ACM fill. The fire doors were steel with cardboard interiors.

Included in this report are: drawings indicating approximate bulk sample locations, chain-of-custody forms, laboratory results, laboratory accreditations, and consultant's license and certification.

It is the belief of Watts that this investigation has sampled all readily accessible materials associated with the building. However, if additional suspect materials are identified that have not been tested, it is recommended that samples of each material be collected and analyzed for asbestos as appropriate.

2.0 – ASBESTOS-CONTAINING MATERIALS

2.0 ASBESTOS-CONTAINING MATERIALS

Sampling and Laboratory Methodology

A NYSDOL-certified asbestos inspector from Watts collected bulk samples of all readily accessible suspect ACM that was identified associated with the facility. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

Samples were delivered with the proper chain-of-custody forms to AmeriSci Richmond located in Richmond, VA a New York State accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except ceiling tiles and non-friable organically bound (NOB) materials, were analyzed using Polarized Light Microscopy (PLM) using Method 198.1. Ceiling tiles and NOBs, which include, but are not limited to, flooring materials, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) Method 198.6. Any ceiling tiles or NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy (TEM) Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by TEM if the PLM analysis does not confirm the presence of asbestos.

This section includes information on all suspect ACM sampled. This section contains the following: A Homogeneous Materials List containing the homogeneous materials identified, their corresponding sample numbers, and whether or not they are ACM, as well as a drawing identifying the approximate locations of asbestos bulk samples.

Where possible, Watts visually inspected the identified ACM to assess its condition. The condition of the ACM was classified as good, fair or poor. The requirement for each designation is as follows:

Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.

Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.

Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

TABLE 1
HOMOGENEOUS MATERIALS LIST
SMOKIN JOES NATIVE CENTER
333 FIRST STREET AND 217 OLD FALLS STREET
NIAGARA FALLS, NY

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
12″ X 12″ Beige Floor Tile	Northwest Lobby	M	18165-13-01	NAD	NAD	N
	West Entrance to Buffet		18165-13-02	NAD	NAD	
Mastic Associate with 12″ x 12″ Beige Floor Tile	North West Lobby	M	18165-13-03	NAD	NAD	N
	West Entrance to Buffet		18165-13-04	NAD	NAD	
Lower Layer 12″ x 12″ Tan Floor Tile Beneath Beige and Purple	Northwest Lobby	M	18165-12-05	NAD	NAD	N
	Northwest Lobby		18165-13-06	NAD	NAD	
Mastic Associated with Lower Layer 12″ x 12″ Tan Floor Tile	Northwest Lobby	M	18165-13-07	NAD	NAD	N
	West lobby		18165-13-08	NAD	NAD	
Leveling Compound Beneath12″ x 12″ Beige and Tan Tiles	Northwest Lobby	M	18165-13-09	NAD	NA	N
	Northwest Lobby		18165-13-10	NAD	NA	
12″ x 12″ Floor Tile-Beige Rainbow Multi-Colored with Streaks	Northwest Vestibule	M	18165-13-11	NAD	NAD	N
	East Side Loading Area Behind Kitchen		18165-13-12	NAD	NAD	
Mastic Associated with 12″ x 12″ Beige Floor Tile with Rainbow Multi-Colored with Streaks	North West Vestibule	M	18165-13-13	NAD	NAD	N
	East Side Loading Area Behind Kitchen		18165-13-14	NAD	NAD	
12″ x 12″ Purple Floor Tile	North West Reception Room by Northwest Lobby	M	18165-13-15	NAD	NAD	N
	Reception Room to Toilets		18165-13-16	NAD	NAD	
Mastic Associated with 12″ x 12″ Purple Floor Tile	Reception Room off Northwest Lobby	M	18165-13-17	NAD	NAD	N
	Reception Room off Northwest Lobby		18165-13-18	NAD	NAD	
4″ Black Cove Base	Northwest Lobby	M	18165-13-19	NAD	NAD	N
	Northwest Offices West of Buffet		18165-13-20	NAD	NAD	

TABLE 1
HOMOGENEOUS MATERIALS LIST
SMOKIN JOES NATIVE CENTER
333 FIRST STREET AND 217 OLD FALLS STREET
NIAGARA FALLS, NY

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Mastic Associated with 4" Black Cove Base	Northwest Lobby	M	18165-13-21	NAD	NAD	N
	Northwest Offices West of Buffet		18165-13-22	NAD	NAD	
Drywall Ceiling	Northwest Lobby	M	18165-13-23	NAD	NA	N
	Northwest Corridor Past Offices to Buffet		18165-13-24	NAD	NA	
Joint Compound on Ceiling	Northwest Lobby	M	18165-13-25	NAD	NA	N
	Northwest Corridor Past Offices to Buffet		18165-13-26	NAD	NA	
Paper Tape Beneath Joint Compound on Ceiling	Northwest Lobby	M	18165-13-27	NAD	NA	N
	Northwest Corridor Past Offices to Buffet		18165-13-28	NAD	NA	
Door and Window Glazing Compound on Storefront Style Entrance	Northwest Vestibule	M	18165-13-29	NAD	NAD	N
	North Wall Center Entrance to Dining Area		18165-13-30	NAD	NAD	
Storefront Style Exterior Metal Door Frame Caulk	Northwest Vestibule	M	18165-13-31	NAD	NAD	N
	North Wall Center to Dining		18165-13-32	NAD	NAD	
2' x 2' Rough Finish Ceiling Tile	Office South of North West Lobby	M	18165-13-33	NAD	NAD	N
	Northwest Office West of Buffet		18165-13-34	NAD	NAD	
Carpet Adhesive on Concrete	Office South of North West Lobby	M	18165-13-35	NAD	NAD	N
	Northwest Office West of Buffet		18165-13-36	NAD	NAD	
Grout Associated with 4" Ceramic Wall Tiles	Men's Toilet-North West Area	M	18165-13-37	NAD	NA	N
	North West Toilets		18165-13-38	NAD	NA	
Thin Set Associated with 4" Ceramic Wall Tiles	Men's Toilet-North West Area	M	18165-13-39	NAD	NAD	N
	Women's Toilet North West		18165-13-40	NAD	NAD	
Grout Associated 8" x 8" Gray Ceramic Floor Tiles	Men's Toilet-Northwest Area	M	18165-13-41	NAD	NA	N
	Women's Toilet North West		18165-13-42	NAD	NA	

TABLE 1
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SMOKIN JOES NATIVE CENTER
333 FIRST STREET AND 217 OLD FALLS STREET
NIAGARA FALLS, NY

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Set Coat Associated with 8" x 8" Gray Ceramic Floor Tiles	Men's Toilet-North West Area	M	18165-13-43	NAD	NA	N
	Women's Toilet North West		18165-13-44	NAD	NA	
Bathroom Caulk	Men's Toilet-Northwest Area Perimeter of Sink	M	18165-13-45	NAD	NAD	N
	Women's Toilet Northwest Area Perimeter of Toilet		18165-13-46	NAD	NAD	
2' x 4' Pinhole and Slot Pattern Ceiling Tile	North West Offices	M	18165-13-47	NAD	NAD	N
	North West Offices		18165-13-48	NAD	NAD	
2' x 4' Ceiling Tiles with Faux 2' x 2' Pattern	Southwest of Store-Smokin Joes Coffee House Ceiling	M	18165-13-49	NAD	NAD	N
	Southwest of Store-Smokin Joes Coffee House Ceiling		18165-13-50	NAD	NAD	
2' x 2' Hard Suspended Ceiling Tile	Northeast Buffet Room at North Wall	M	18165-13-51	NAD	NAD	N
	Northeast Buffet Room-East Area by Kitchen		18165-13-52	NAD	NAD	
Window Glazing Compound	Northeast Buffet Room- North Wall Center	M	18165-13-53	NAD	NAD	N
	Northwest Office, West of Dining Area- North Wall		18165-13-54	NAD	NAD	
Yellow Epoxy Coating on Concrete Floor	Northeast Buffet Room-North East Corner	M	18165-13-55	NAD	NAD	N
	Buffet Room by Theater-North East		18165-13-56	NAD	NAD	
4" Black Cove Base	Buffet Area-Northeast Corner	M	18165-13-57	NAD	NAD	N
	Buffet Area-Behind Bar		18165-13-58	NAD	NAD	
Mastic Associated with 4" Black Cove Base	Buffet Area-Northeast Corner	M	18165-13-59	NAD	NAD	N
	Buffet Area-Behind Bar		18165-13-60	NAD	NAD	
Gasket at Water Supply Line	Water Main Shut Off Room-North East	M	18165-13-61	NAD	NAD	N
	Water Main Shut Off Room-North East		18165-13-62	NAD	NAD	

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SMOKIN JOES NATIVE CENTER
333 FIRST STREET AND 217 OLD FALLS STREET
NIAGARA FALLS, NY

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Gasket in Flange-Water Supply Line	Water Main Shut Off Room-North East	M	18165-13-63	NAD	NAD	N
	Water Main Shut Off Room-North East		18165-13-64	NAD	NAD	
Butt End Sealant on Water Shut Off Valve	Water Main Shut Off Room	M	18165-13-65	NAD	NAD	N
	Water Main Shut Off Room-Northeast Area		18165-13-66	NAD	NAD	
Drywall	Buffet Area-Electrical Room Wall	M	18165-13-67	NAD	NA	N
	Buffet Area- East Wall		18165-13-68	NAD	NA	
Joint Compound	Buffet Area-Electrical Room Wall	M	18165-13-69	NAD	NA	N
	Buffet Area- East Wall		18165-13-70	NAD	NA	
Paper Beneath Joint Compound	Buffet Area-Electrical Room Wall	M	18165-13-71	NAD	NA	N
	Buffet Area- East Wall		18165-13-72	NAD	NA	
Panel Adhesive on Drywall	Buffet Area- South Corridor-West Wall	M	18165-13-73	NAD	NAD	N
	Buffet Area- South Corridor-West Wall		18165-13-74	NAD	NAD	
2' x 2' Hard Ceiling Tile	Theater-Above Stage	M	18165-13-75	NAD	NAD	N
	Theater-East Area		18165-13-76	NAD	NAD	
Drywall	Theater, Stage Area-East Wall	M	18165-13-77	NAD	NA	N
	Theater, Northeast Area-East Wall		18165-13-78	NAD	NA	
Joint Compound	Theater, Stage Area-East Wall	M	18165-13-79	NAD	NA	N
	Theater, Northeast Area-East Wall		18165-13-80	NAD	NA	
Carpet Adhesive on Concrete	Theater, South Stage-Southeast Area	M	18165-13-81	NAD	NAD	N
	Theater, South Stage-Southwest Area		18165-13-82	NAD	NAD	

TABLE 1
HOMOGENEOUS MATERIALS LIST
SMOKIN JOES NATIVE CENTER
333 FIRST STREET AND 217 OLD FALLS STREET
NIAGARA FALLS, NY

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Gray Flange Sealant	Second Floor-Northeast Vertical Duct on North East HVAC Duct on Floor	M	18165-13-83	NAD	NAD	N
	Second Floor-North West Vertical Duct on Bare Sheet Metal Duct		18165-13-84	NAD	NAD	
Storefront Style Window Glazing Compound	Second Floor-Northwest Wall, Center Window	M	18165-13-85	NAD	NAD	N
	Second Floor-South Center Window		18165-13-86	NAD	NAD	
Joint Compound	Second Floor-West Wall (Damaged Area) by Window	M	18165-13-87	NAD	NA	N
	Second Floor-South Wall at Window Well		18165-13-88	NAD	NA	
Paper Tape Beneath Joint Compound	Second Floor-South Wall Center Window	M	18165-13-89	NAD	NA	N
	Second Floor-West Wall, Below Window		18165-13-90	NAD	NA	
Drywall	Second Floor-West Wall Damaged Area by Window	M	18165-13-91	NAD	NA	N
	Second Floor-South Wall Center		18165-13-92	NAD	NA	
Roof Tar Sealant Beneath Metal Foil on Metal Deck	Roof-North-South Wing, Center, West of Hatch	M	18165-13-93	NAD	NAD	N
	Roof-East-West Wing, Center Roof		18165-13-94	NAD	NAD	
Black Tar at Base of Round Vent Support Base	**Roof-North-South Wing, East Center Vent**	**M**	**18165-13-95**	**14.2% Chrysotile**	**NA**	**Y**
	Roof North East Corner		**18165-13-96**	**NA/PS**	**NA**	
Brown Tar Patch on Screw Heads of Roof Peak	Roof-North-South Wing, South Portion	M	18165-13-97	NAD	NAD	N
	Roof-South End of North-South Roof		18165-13-98	NAD	NAD	

TABLE 1
HOMOGENEOUS MATERIALS LIST
SMOKIN JOES NATIVE CENTER
333 FIRST STREET AND 217 OLD FALLS STREET
NIAGARA FALLS, NY

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Gray-Black Tar Patch on Base of Copper Vent Metal Roof	Roof-South Portion of North-South Rear Part Roof-Near Peak of South End	M	18165-13-99 18165-13-100	8.3% Chrysotile NA/PS	NA NA	Y
Tar and Rubber Patch- 12" x 12"	Roof-West Side of Far South Roof Roof-Northern Most Patch on South End	M	18165-13-101 18165-13-102	NAD NAD	Chrysotile Trace Chrysotile Trace	N
Gray-Black Tar on Flashing	Roof-East End of South West Roof-North East Corner Roof-East End of South West Roof-North East Corner	M	18165-13-103 18165-13-104	11.1% Chrysotile NA/PS	NA NA	Y
Tar on Metal Parapet Cap	Roof-North-South Wing, South End Roof-North-South Wing at Peak	M	18165-13-105 18165-13-106	NAD 4.4% Chrysotile	NA NA	Y
Black Caulk on Screw Heads	Roof-South West Roof, South Corner Roof-South West Roof, South East Corner	M	18165-13-107 18165-13-108	NAD NAD	NAD NAD	N
Tar and Rubber Patch	Roof Far West Parapet on Southwest Roof	M	18165-13-109 18165-13-110	NAD NAD	NAD NAD	N
Gray-Black Tar at the Base of AHU	Roof Southwest Metal Roof Roof Southwest Roof Northeast Corner	M	18165-13-111 18165-13-112	4.3% Chrysotile NA/PS	NA NA	Y
Black tar on Concrete Parapet	Roof North-South Wing, West Parapet Roof Northwest Corner at Bend to East Roof	M	18165-13-113 18165-13-114	NAD NAD	NAD NAD	N
Window Frame Caulk	Exterior North Wall Center Window Exterior West Side Center-North Window	M	18165-13-115 18165-13-116	NAD NAD	NAD NAD	N

TABLE 1
HOMOGENEOUS MATERIALS LIST
SMOKIN JOES NATIVE CENTER
333 FIRST STREET AND 217 OLD FALLS STREET
NIAGARA FALLS, NY

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Stucco	Exterior-West Side, Center-North	S	18165-13-117	NAD	NA	N
	Exterior-West Side, Center-South		18165-13-118	NAD	NA	
	Exterior-West Side, Center-North		18165-13-119	NAD	NA	
	Exterior-West Side, Far South West at Coffee Shop		18165-13-120	NAD	NA	
	Exterior-South West Corner of Coffee Shop at South Wall Corner		18165-13-121	NAD	NA	
Door Fame Caulk	Exterior-North Door Center	M	18165-13-122	NAD	NAD	N
	Exterior-North Side Center		18165-13-123	NAD	NAD	
Spray-on Fireproofing Note: No Vermiculite Was Detected	North West Lobby-on Beam Near Ceiling, Above Ceiling Tiles	S	18165-13-124	NAD	NA	N
	Second Floor-Column, Center, West		18165-13-125	NAD	NA	
	Second Floor-Column, Center, East		18165-13-126	NAD	NA	
	Second Floor-Beam at Ceiling, East Wall		18165-13-127	NAD	NA	
	First Floor-Valve Room Behind Kitchen, North East		18165-13-128	NAD	NA	
	Theater, on Beams Above Suspended Ceiling Tiles		18165-13-129	NAD	NA	
	First Floor-South East Miniature Golf on Column		18165-13-130	NAD	NA	
Soft Black Window Glazing Compound Window Pane in Fire Doors	Southwest corridor double fire doors to southwest coffee Shop and Tee Shirt Sales Store	M	18165-13-131	NAD	Trace Anthophyllite	N
	West Center Double Fire Doors on West Center Wall of Indoor Miniature Golf Room		18165-13-132	NAD	Trace Anthophyllite	

TABLE 1
HOMOGENEOUS MATERIALS LIST
SMOKIN JOES NATIVE CENTER
333 FIRST STREET AND 217 OLD FALLS STREET
NIAGARA FALLS, NY

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
12" x 12" Yellow Floor Tiles on Concrete	South Coffee Grinding and Storage Room by South Entrance	M	18165-13-133	NAD	NAD	N
	Southeast Indoor Miniature Golf Roof by South Entrance		18165-13-134	NAD	NAD	
Black Mastic Associated with 12" x 12" Yellow Floor Tiles on Concrete	South Coffee Grinding and Storage Room by South Entrance	M	18165-13-135	NAD	NAD	N
	Southeast Indoor Miniature Golf Roof by South Entrance		18165-13-136	NAD	NAD	
Paper and Foil on Fiberglass Insulation on Pipes	Water Main Shut Off Pipe in Water Shut Off Room Northeast Corner of the Building	M	18165-13-137	NAD	NA	N
	Pipe Above Hot Water Tank in Janitor Storage Room Across from the Northwest Toilets		18165-13-138	NAD	NA	
Gray Roof Caulk Beneath Metal Cap East Roof Edge Southwest Wing	Roof Southwest Wing, Beneath Metal Cap on East Roof Edge Northeast Corner	M	18165-13-139	NAD	NAD	N
	Roof Southwest Wing, Beneath Metal Cap on East Roof Edge Southeast Corner		18165-13-140	NAD	NAD	

Abbreviations:
NA = Not analyzed
NAD = No asbestos detected
NA/PS = Not Analyzed Positive Stop
Non-ACM: Remaining residue less than 1% of original sample after processing. Material is material is Non-ACM

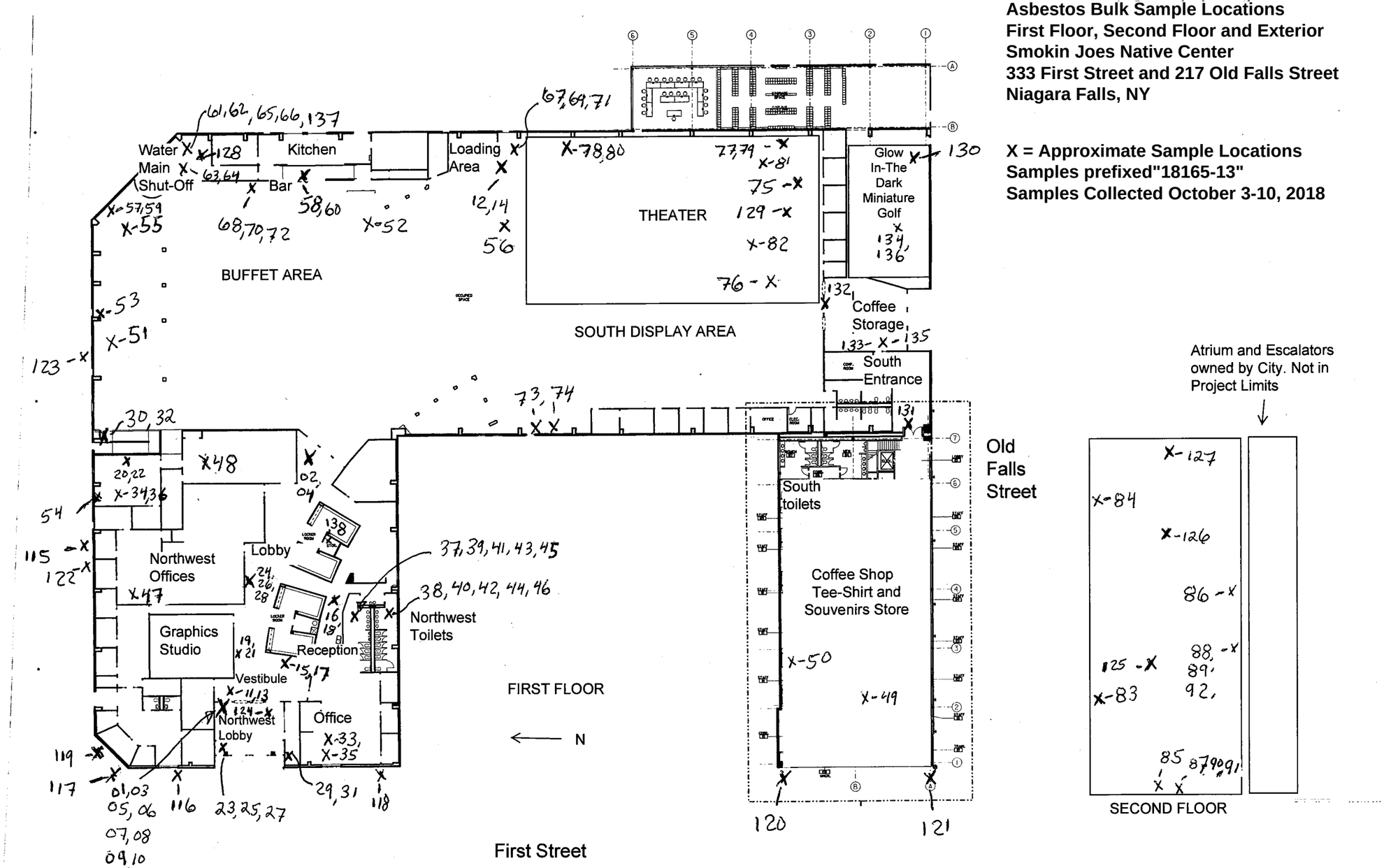
Type
T = Thermal
S = Surfacing

ACM
Y = Yes
N = No
M = Miscellaneous

2.1 – ASBESTOS SAMPLE LOCATION DRAWINGS

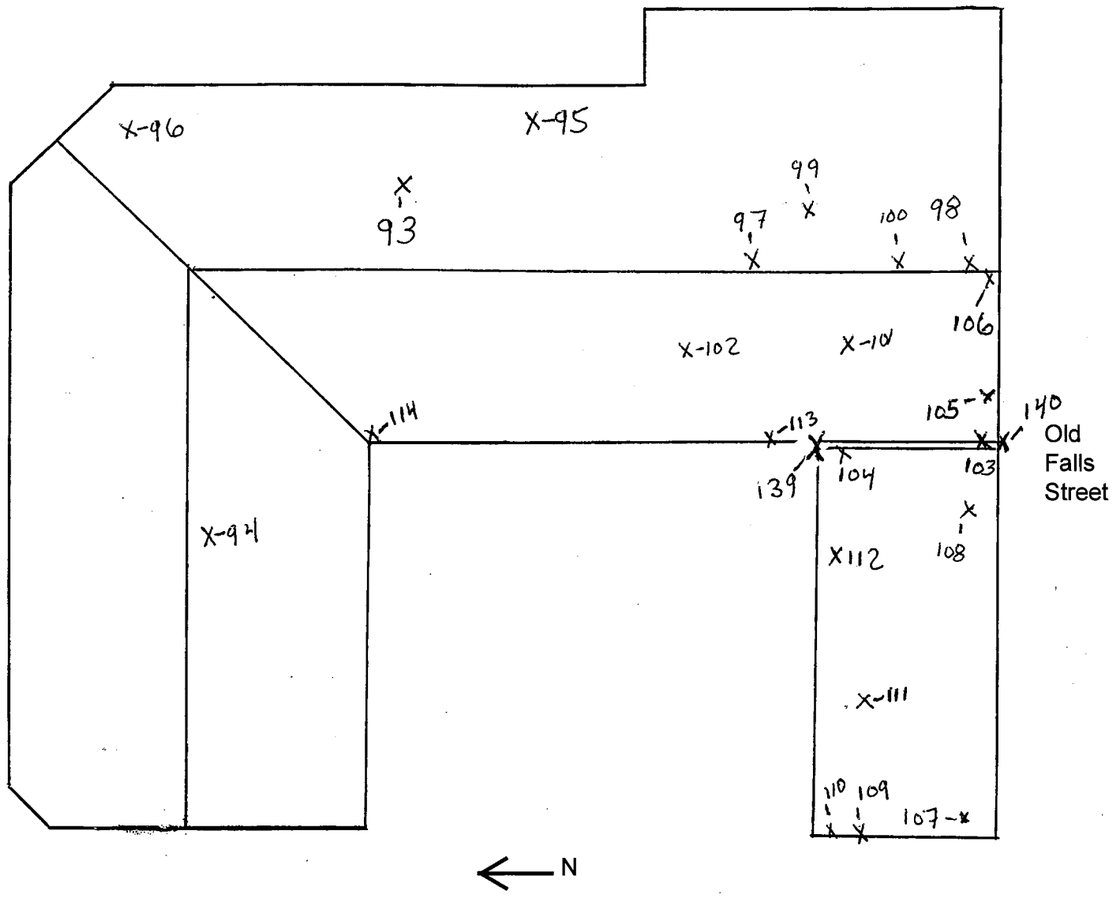
Asbestos Bulk Sample Locations
First Floor, Second Floor and Exterior
Smokin Joes Native Center
333 First Street and 217 Old Falls Street
Niagara Falls, NY

X = Approximate Sample Locations
Samples prefixed"18165-13"
Samples Collected October 3-10, 2018



Asbestos Bulk Sample Locations
Roof
Smokin Joes Native Center
333 First Street and 217 Old Falls Street
Niagara Falls, NY

X = Approximate Sample Locations
Samples Prefixed "18165-13"
Samples Collected October 3 - 10, 2018



2.2 – PHOTOGRAPHS

Photo 1 – View of the northwest entrance lobby. No asbestos was detected in samples of drywall, joint compound, tape, floor tiles or floor tile mastic in the facility.

Photo 2 – View of the buffet seating area and bar. No asbestos was detected in samples of drywall, joint compound, flooring, ceiling tiles or spray-on fireproofing.

Photo 3 – View of the northwest entrance and vestibule. No asbestos was detected in samples of floor tiles, floor tile mastic, drywall, joint compound or ceiling mastic.

Photo 4 – View of spray-on fireproofing on beams and columns. No asbestos or vermiculite was detected in samples of the spray-on fireproofing.

Photo 5 – View of the theater area. No asbestos was detected in samples of drywall, joint compound, ceiling tiles, carpet adhesive or spray-on fireproofing.

Photo 6 – View of northwest Men's Restroom. No asbestos was detected in samples of ceramic wall tile grout or thin set or in the ceramic floor tile grout or set coat in the various bathrooms.

Photo 7 – View of insulation on piping. No asbestos was detected in gaskets, pipe insulation or end sealant.

Photo 8 – View of floor tiles in the southeast former indoor miniature golf area and coffee shop. No asbestos was detected in samples of floor tiles or the associated mastic.

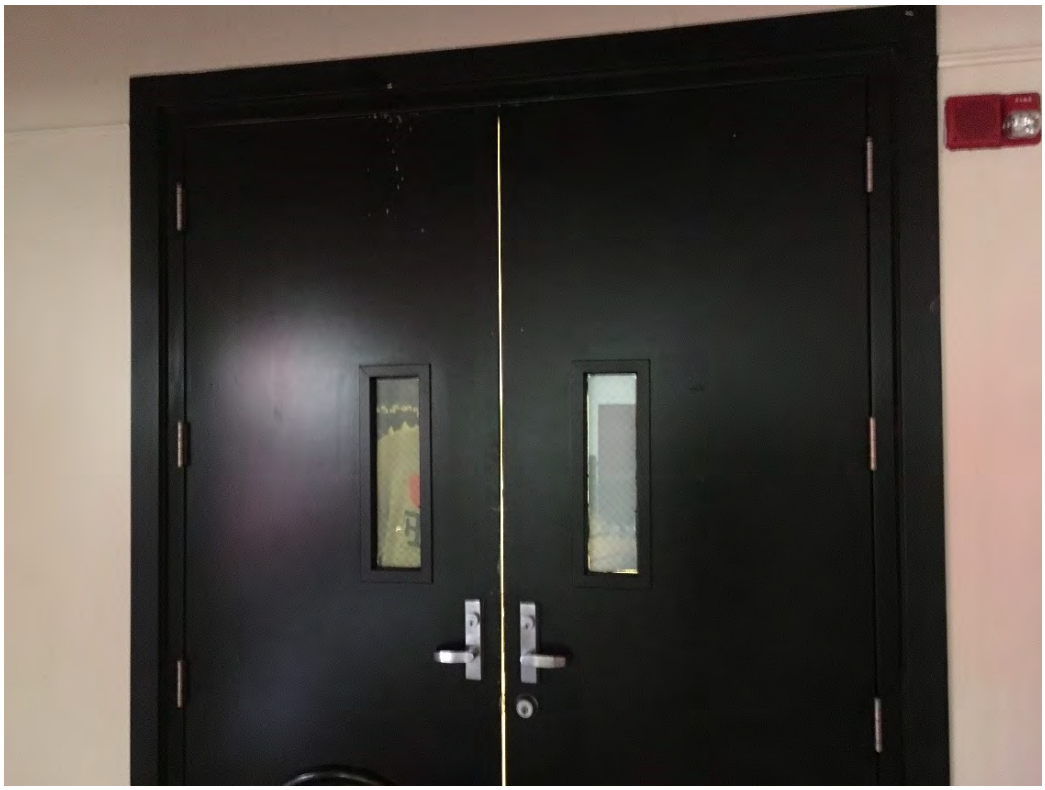


Photo 9 – View of a set of fire doors at the southwest corridor leading to the Smokin Joes Coffee Shop and souvenir store. No asbestos was detected in the window glazing compound in the fire doors. No suspect ACM was observed in the door interior packing.

Photo 10– View of the unfinished second floor level. No asbestos was detected in samples of drywall, joint compound, tape, window glazing compound, duct sealant or spray-on fireproofing.

Photo 11 –Exterior view of the north wall of the facility. No asbestos was detected in samples of window glazing compound or window frame caulk, door glazing compound or door frame caulk.

Photo 12 – Exterior view of the southwest elevation. No asbestos was detected in samples of stucco, window glazing compound or caulk.

Photo 13 – View of the metal foil and tar surface covering the majority of the metal deck to the roof. ACM black tar was observed at the base of roof mounted components, vents and pipes.

Photo 14 – Close-up view of a section of the metal foil and underlying non-ACM tar across the majority of the roof metal deck. The foil was not observed on the southern portion of the north-south roof or the southwest wing roof.

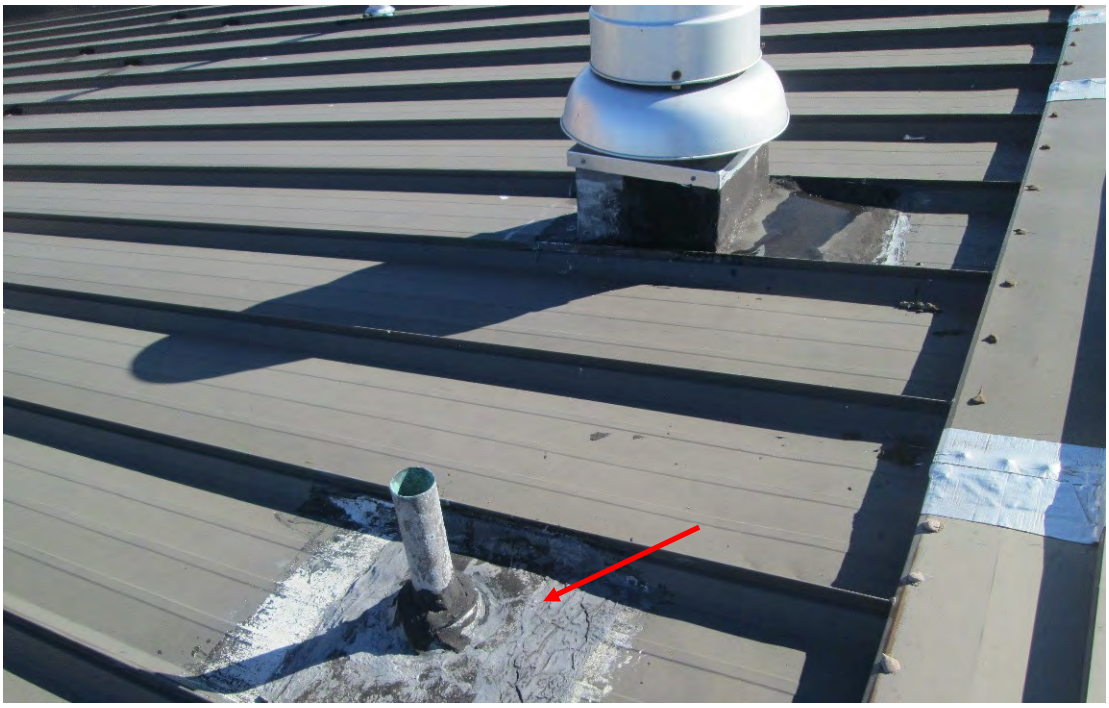


Photo 15 – View of ACM black tar at the base of a vent pipe and on the metal deck at the southern portion of the north-south roof (arrow).

Photo 16 – View of ACM gray-black tar along the eastern edge of the southwest roof (arrow). The same tar was observed as patches along the southwest edge of the adjacent north-south wing roof.

Photo 17 – View of ACM tar along the south parapet of the north-south wing roof (arrow). The tar was observed along the western half of the south parapet only.

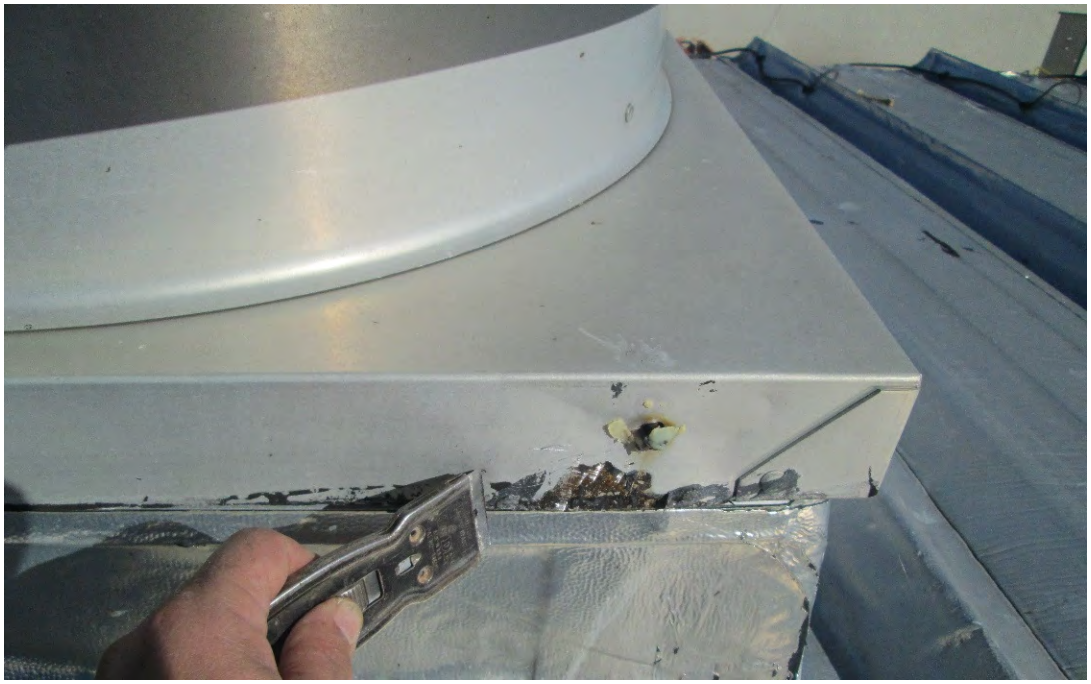


Photo 18 – View of ACM tar at the base to a roof mounted vent. The tar extended beneath the metal foil on the vent base.

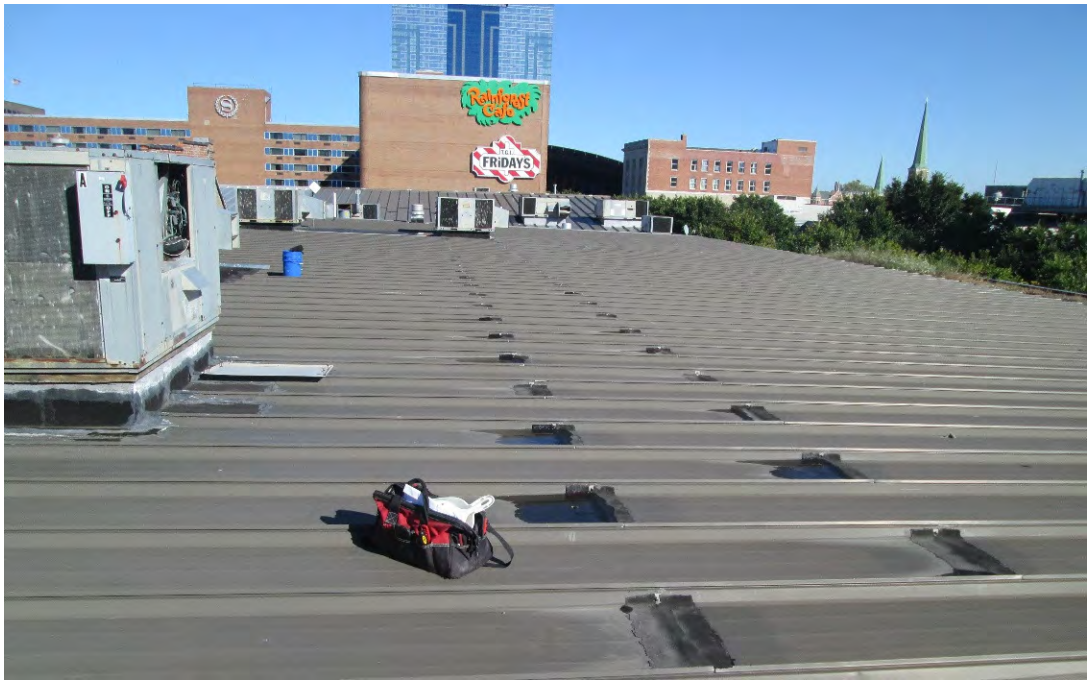


Photo 19 – View of rubber and tar patches observed in an orderly pattern on the southern portion of the north-south roof and the southwest roof. The tar and patches were determined to be non-ACM.

Photo 20 – View of black tar on the north-south roof west concrete parapet (arrow). The tar was determined to be non-ACM.

2.3 – LABORATORY REPORTS

BULK SAMPLE CHAIN-OF-CUSTODY FORMS

The purpose of the chain-of-custody form is to reduce the possibility of misidentifying individual samples, to help trace any samples that may be lost, and to provide a record certifying that the samples were delivered to and received by the analytical laboratory.

An important feature of this form is the signature section at the bottom, identifying all persons who handled the samples.

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Watts Architecture & Engineers
Attn: Edward Jones
95 Perry Street
Suite 300
Buffalo, NY 14203

Date Received 10/08/18 **AmeriSci Job #** 118101276
Date Examined 10/11/18 **P.O. #**
ELAP # 10984 **Page** 1 **of** 27
RE: 18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-01	118101276-01	*No*	NAD
1	**Location:** 12" x 12 " Beige Floor Tile; NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18

Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 2.9 %
Comment: Heat Sensitive (organic): 16.0%; Acid Soluble (inorganic): 81.1%; Inert (Non-asbestos): 2.9%

18165-13-02	118101276-02	*No*	NAD
1	**Location:** 12" x 12 " Beige Floor Tile; West Entrance to Buffet		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18

Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 2.2 %
Comment: Heat Sensitive (organic): 14.7%; Acid Soluble (inorganic): 83.2%; Inert (Non-asbestos): 2.2%

18165-13-03	118101276-03	*No*	NAD
2	**Location:** Mastic Associated with 12" x 12" Beige Floor Tile; NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18

Analyst Description: Tan/Black, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 10.8 %
Comment: Heat Sensitive (organic): 50.0%; Acid Soluble (inorganic): 39.3%; Inert (Non-asbestos): 10.8%

18165-13-04	118101276-04	*No*	NAD
2	**Location:** Mastic Associated with 12" x 12" Beige Floor Tile; West Entrance to Buffet		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18

Analyst Description: Tan/Black, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 13.3 %
Comment: Heat Sensitive (organic): 24.5%; Acid Soluble (inorganic): 62.2%; Inert (Non-asbestos): 13.3%

See Reporting notes on last page

PLM Bulk Asbestos Report

18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-05	118101276-05	*No*	NAD
3	**Location:** Lower Layer 12" x 12" Tan Floor Tiles, Beneath Beige and Purple; NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 33 %			
Comment: Heat Sensitive (organic): 21.9%; Acid Soluble (inorganic): 45.1%; Inert (Non-asbestos): 33.0%			
18165-13-06	118101276-06	*No*	NAD
3	**Location:** Lower Layer 12" x 12" Tan Floor Tiles, Beneath Beige and Purple; NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 30.3 %			
Comment: Heat Sensitive (organic): 20.9%; Acid Soluble (inorganic): 48.8%; Inert (Non-asbestos): 30.3%			
18165-13-07	118101276-07	*No*	NAD
4	**Location:** Mastic Associated with Lower Layer 12" x 12" ; NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 9.2 %			
Comment: Heat Sensitive (organic): 20.3%; Acid Soluble (inorganic): 70.5%; Inert (Non-asbestos): 9.2%			
18165-13-08	118101276-08	*No*	NAD
4	**Location:** Mastic Associated with Lower Layer 12" x 12" ; West Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 9.7 %			
Comment: Heat Sensitive (organic): 21.9%; Acid Soluble (inorganic): 68.4%; Inert (Non-asbestos): 9.7%			
18165-13-09	118101276-09	*No*	NAD
5	**Location:** Leveling Compound Beneath Top Layers 12" x 12" Beige and Tan Tiles; NW Lobby		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-10	118101276-10	*No*	NAD
5	**Location:** Leveling Compound Beneath Top Layers 12" x 12" Beige and Tan Tiles; NW Lobby		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
18165-13-11	118101276-11	*No*	NAD
6	**Location:** 12" x 12" Floor Tile - Beige Rainbow Multi-color with Streaks; NW Vestibule		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 30.5 % **Comment:** Heat Sensitive (organic): 23.2%; Acid Soluble (inorganic): 46.3%; Inert (Non-asbestos): 30.5%			
18165-13-12	118101276-12	*No*	NAD
6	**Location:** 12" x 12" Floor Tile - Beige Rainbow Multi-color with Streaks; East Side Loading Area Behind Kitchen		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 28.5 % **Comment:** Heat Sensitive (organic): 22.9%; Acid Soluble (inorganic): 48.6%; Inert (Non-asbestos): 28.5%			
18165-13-13	118101276-13	*No*	NAD
7	**Location:** Mastic Associated with 12" x 12" Beige Floor Tiles with Rainbow; NW Vestibule		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 15.5 % **Comment:** Heat Sensitive (organic): 62.9%; Acid Soluble (inorganic): 21.5%; Inert (Non-asbestos): 15.5%			
18165-13-14	118101276-14	*No*	NAD
7	**Location:** Mastic Associated with 12" x 12" Beige Floor Tiles with Rainbow; East Side Loading Area Behind Kitchen		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 13.3 % **Comment:** Heat Sensitive (organic): 39.4%; Acid Soluble (inorganic): 47.3%; Inert (Non-asbestos): 13.3%			

See Reporting notes on last page

PLM Bulk Asbestos Report

18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-15	118101276-15	*No*	NAD
8	**Location:** 12" x 12" Purple Floor Tile; NW Reception Room by NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Purple, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 16.7 %			
Comment: Heat Sensitive (organic): 21.3%; Acid Soluble (inorganic): 62.0%; Inert (Non-asbestos): 16.7%			
18165-13-16	118101276-16	*No*	NAD
8	**Location:** 12" x 12" Purple Floor Tile; Reception Room to Toilets		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Purple, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 14.1 %			
Comment: Heat Sensitive (organic): 19.3%; Acid Soluble (inorganic): 66.6%; Inert (Non-asbestos): 14.1%			
18165-13-17	118101276-17	*No*	NAD
9	**Location:** Mastic Associated with 12" x 12" Floor Tiles; Reception Room off NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 5.7 %			
Comment: Heat Sensitive (organic): 81.3%; Acid Soluble (inorganic): 13.0%; Inert (Non-asbestos): 5.7%			
18165-13-18	118101276-18	*No*	NAD
9	**Location:** Mastic Associated with 12" x 12" Floor Tiles; Reception Room off NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 7.8 %			
Comment: Heat Sensitive (organic): 60.3%; Acid Soluble (inorganic): 31.8%; Inert (Non-asbestos): 7.8%			
18165-13-19	118101276-19	*No*	NAD
10	**Location:** 4" Black Cove Base; NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 56.3 %			
Comment: Heat Sensitive (organic): 40.5%; Acid Soluble (inorganic): 3.2%; Inert (Non-asbestos): 56.3%			

See Reporting notes on last page

PLM Bulk Asbestos Report

18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-20	118101276-20	*No*	NAD
10	**Location:** 4" Black Cove Base; NW Offices West of Buffet		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 56.3 % **Comment:** Heat Sensitive (organic): 39.6%; Acid Soluble (inorganic): 4.1%; Inert (Non-asbestos): 56.3%			
18165-13-21	118101276-21	*No*	NAD
11	**Location:** Mastic Associated with 4" Cove Base; NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 % **Comment:** Heat Sensitive (organic): 33.4%; Acid Soluble (inorganic): 51.0%; Inert (Non-asbestos): 15.6%			
18165-13-22	118101276-22	*No*	NAD
11	**Location:** Mastic Associated with 4" Cove Base; NW Offices West of Buffet		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10.4 % **Comment:** Heat Sensitive (organic): 33.1%; Acid Soluble (inorganic): 56.5%; Inert (Non-asbestos): 10.4%			
18165-13-23	118101276-23	*No*	NAD
12	**Location:** Drywall Ceiling; NW Lobby		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
18165-13-24	118101276-24	*No*	NAD
12	**Location:** Drywall Ceiling; NW Corridor Past Offices to Buffet		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass 1 %, Non-fibrous 89 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-25	118101276-25	*No*	NAD
13	**Location:** Joint Compound on Ceiling; NW Lobby		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
18165-13-26	118101276-26	*No*	NAD
13	**Location:** Joint Compound on Ceiling; NW Corridor Past Offices to Buffet		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
18165-13-27	118101276-27	*No*	NAD
14	**Location:** Paper Tape Beneath Joint Compound on Ceiling; NW Lobby		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
18165-13-28	118101276-28	*No*	NAD
14	**Location:** Paper Tape Beneath Joint Compound on Ceiling; NW Corridor Past Offices to Buffet		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
18165-13-29	118101276-29	*No*	NAD
15	**Location:** Door and Window Glazing Compound on Store Front Style Entrance; NW Vestibule		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.1 % **Comment:** Heat Sensitive (organic): 90.5%; Acid Soluble (inorganic): 9.4%; Inert (Non-asbestos): 0.1%			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-30	118101276-30	*No*	NAD
15	**Location:** Door and Window Glazing Compound on Store Front Style Entrance; North Wall Center Entrance to Dining Area		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 0.1 %			
Comment: Heat Sensitive (organic): 88.2%; Acid Soluble (inorganic): 11.7%; Inert (Non-asbestos): 0.1%			
18165-13-31	118101276-31	*No*	NAD
16	**Location:** Store Front Style Exterior Metal Door Frame Caulk; NW Vestibule		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 7.8 %			
Comment: Heat Sensitive (organic): 64.0%; Acid Soluble (inorganic): 28.2%; Inert (Non-asbestos): 7.8%			
18165-13-32	118101276-32	*No*	NAD
16	**Location:** Store Front Style Exterior Metal Door Frame Caulk; North Wall Center to Dining		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 3.3 %			
Comment: Heat Sensitive (organic): 51.7%; Acid Soluble (inorganic): 45.1%; Inert (Non-asbestos): 3.3%			
18165-13-33	118101276-33	*No*	NAD
17	**Location:** 2' x 2' Rough Finish Ceiling Tile ; Office South of NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 33 %			
Comment: Heat Sensitive (organic): 14.1%; Acid Soluble (inorganic): 52.9%; Inert (Non-asbestos): 33.0%			
18165-13-34	118101276-34	*No*	NAD
17	**Location:** 2' x 2' Rough Finish Ceiling Tile ; NW Offices West of Buffet		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 34.5 %			
Comment: Heat Sensitive (organic): 13.8%; Acid Soluble (inorganic): 51.7%; Inert (Non-asbestos): 34.5%			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-35	118101276-35	*No*	NAD
18	**Location:** Carpet Adhesive on Concrete; Office South of NW Lobby		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 35.1 %			
Comment: Heat Sensitive (organic): 52.8%; Acid Soluble (inorganic): 12.1%; Inert (Non-asbestos): 35.1%			
18165-13-36	118101276-36	*No*	NAD
18	**Location:** Carpet Adhesive on Concrete; NW Offices West of Buffet		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 35.7 %			
Comment: Heat Sensitive (organic): 55.5%; Acid Soluble (inorganic): 8.8%; Inert (Non-asbestos): 35.7%			
18165-13-37	118101276-37	*No*	NAD
19	**Location:** Grout Associated with 4" Ceramic Wall Tiles; Men's Toilet - NW Area		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
18165-13-38	118101276-38	*No*	NAD
19	**Location:** Grout Associated with 4" Ceramic Wall Tiles; NW Toilets		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
18165-13-39	118101276-39	*No*	NAD
20	**Location:** Thin Set Associated with 4" Ceramic Wall Tiles; Men's Toilet - NW Area		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 9.5 %			
Comment: Heat Sensitive (organic): 35.4%; Acid Soluble (inorganic): 55.1%; Inert (Non-asbestos): 9.5%			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-40	118101276-40	*No*	NAD
20	**Location:** Thin Set Associated with 4" Ceramic Wall Tiles; Women's Toilet - NW Area		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 10.7 %			
Comment: Heat Sensitive (organic): 40.8%; Acid Soluble (inorganic): 48.5%; Inert (Non-asbestos): 10.7%			
18165-13-41	118101276-41	*No*	NAD
21	**Location:** Grout Associated with 8" x 8" Gray Ceramic Floor Tiles; Men's Toilet - NW Area		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
18165-13-42	118101276-42	*No*	NAD
21	**Location:** Grout Associated with 8" x 8" Gray Ceramic Floor Tiles; Women's Toilet - NW Area		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
18165-13-43	118101276-43	*No*	NAD
22	**Location:** Set Coat Associated with 8" x 8" Gray Ceramic Floor Tiles; Men's Toilet - NW Area		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
18165-13-44	118101276-44	*No*	NAD
22	**Location:** Set Coat Associated with 8" x 8" Gray Ceramic Floor Tiles; Women's Toilet - NW Area		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-45	118101276-45	*No*	NAD
23	**Location:** Bathroom Caulk; Men's Toilet - NW Area perimeter of sink		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 23.5 % **Comment:** Heat Sensitive (organic): 72.8%; Acid Soluble (inorganic): 3.7%; Inert (Non-asbestos): 23.5%			
18165-13-46	118101276-46	*No*	NAD
23	**Location:** Bathroom Caulk; Women's Toilet - NW Area perimeter of toilet		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 23.5 % **Comment:** Heat Sensitive (organic): 63.9%; Acid Soluble (inorganic): 12.6%; Inert (Non-asbestos): 23.5%			
18165-13-47	118101276-47	*No*	NAD
24	**Location:** 2' x 4' Pinhole and Slot Pattern Ceiling Tile; NW Offices		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 39.6 % **Comment:** Heat Sensitive (organic): 21.7%; Acid Soluble (inorganic): 38.7%; Inert (Non-asbestos): 39.6%			
18165-13-48	118101276-48	*No*	NAD
24	**Location:** 2' x 4' Pinhole and Slot Pattern Ceiling Tile; NW Offices		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 40 % **Comment:** Heat Sensitive (organic): 22.1%; Acid Soluble (inorganic): 37.9%; Inert (Non-asbestos): 40.0%			
18165-13-49	118101276-49	*No*	NAD
25	**Location:** 2' x 4' Ceiling Tiles with Faux 2' x 2' Pattern; SW of Store - Smokin' Joe's Coffee House Ceiling		(by NYS ELAP 198.6) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 48.7 % **Comment:** Heat Sensitive (organic): 15.4%; Acid Soluble (inorganic): 35.9%; Inert (Non-asbestos): 48.7%			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-50	118101276-50	*No*	NAD
25	**Location:** 2' x 4' Ceiling Tiles with Faux 2' x 2' Pattern; SW of Store - Smokin' Joe's Coffee House Ceiling		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 50.5 % **Comment:** Heat Sensitive (organic): 14.8%; Acid Soluble (inorganic): 34.6%; Inert (Non-asbestos): 50.5%			
18165-13-51	118101276-51	*No*	NAD
26	**Location:** 2' x 2' Hard Suspended Ceiling Tile; NE Buffet Room at North Wall		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: White/Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 33.7 % **Comment:** Heat Sensitive (organic): 17.3%; Acid Soluble (inorganic): 49.0%; Inert (Non-asbestos): 33.7%			
18165-13-52	118101276-52	*No*	NAD
26	**Location:** 2' x 2' Hard Suspended Ceiling Tile; NE Buffet Room - East Area by Kitchen		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: White/Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 31.5 % **Comment:** Heat Sensitive (organic): 13.3%; Acid Soluble (inorganic): 55.2%; Inert (Non-asbestos): 31.5%			
18165-13-53	118101276-53	*No*	NAD
27	**Location:** Window Glazing Compound; NE Buffet Room - North Wall Center		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.1 % **Comment:** Heat Sensitive (organic): 90.5%; Acid Soluble (inorganic): 9.3%; Inert (Non-asbestos): 0.1%			
18165-13-54	118101276-54	*No*	NAD
27	**Location:** Window Glazing Compound; NW Office, West of Dining Area - North Wall		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.1 % **Comment:** Heat Sensitive (organic): 91.0%; Acid Soluble (inorganic): 9.0%			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-55	118101276-55	*No*	NAD
28	**Location:** Yellow Epoxy Coating on Concrete Floor; NE Buffet Room - NE Corner		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 36.4 % **Comment:** Heat Sensitive (organic): 58.2%; Acid Soluble (inorganic): 5.3%; Inert (Non-asbestos): 36.4%			
18165-13-56	118101276-56	*No*	NAD
28	**Location:** Yellow Epoxy Coating on Concrete Floor; Buffet Room by Theater - NE		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 37.1 % **Comment:** Heat Sensitive (organic): 54.6%; Acid Soluble (inorganic): 8.3%; Inert (Non-asbestos): 37.1%			
18165-13-57	118101276-57	*No*	NAD
29	**Location:** 4" Black Cove Base; Buffet Area - NE Corner		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 56.6 % **Comment:** Heat Sensitive (organic): 38.1%; Acid Soluble (inorganic): 5.4%; Inert (Non-asbestos): 56.6%			
18165-13-58	118101276-58	*No*	NAD
29	**Location:** 4" Black Cove Base; Buffet Area - Behind Bar		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.9 % **Comment:** Heat Sensitive (organic): 47.0%; Acid Soluble (inorganic): 52.1%; Inert (Non-asbestos): 0.9%			
18165-13-59	118101276-59	*No*	NAD
30	**Location:** Mastic Associated with 4" Black Cove Base; Buffet Area - NE Corner		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 29.9 % **Comment:** Heat Sensitive (organic): 35.1%; Acid Soluble (inorganic): 35.0%; Inert (Non-asbestos): 29.9%			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-60	118101276-60	*No*	NAD
30	**Location:** Mastic Associated with 4" Black Cove Base; Buffet Area - Behind Bar		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18

Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 11.9 %
Comment: Heat Sensitive (organic): 45.6%; Acid Soluble (inorganic): 42.4%; Inert (Non-asbestos): 11.9%

18165-13-61	118101276-61	*No*	NAD
31	**Location:** Gasket at Water Supply Line; Water Main Shut Off Room - NE		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18

Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 2.2 %
Comment: Heat Sensitive (organic): 92.4%; Acid Soluble (inorganic): 5.4%; Inert (Non-asbestos): 2.2%

18165-13-62	118101276-62	*No*	NAD
31	**Location:** Gasket at Water Supply Line; Water Main Shut Off Room - NE		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18

Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 2.9 %
Comment: Heat Sensitive (organic): 93.4%; Acid Soluble (inorganic): 3.7%; Inert (Non-asbestos): 2.9%

18165-13-63	118101276-63	*No*	NAD
32	**Location:** Gasket in Flange - Water Supply Line; Water Main Shut Off Room - NE		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18

Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 3 %
Comment: Heat Sensitive (organic): 93.3%; Acid Soluble (inorganic): 3.6%; Inert (Non-asbestos): 3.0%

18165-13-64	118101276-64	*No*	NAD
32	**Location:** Gasket in Flange - Water Supply Line; Water Main Shut Off Room - NE		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18

Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 2.7 %
Comment: Heat Sensitive (organic): 93.3%; Acid Soluble (inorganic): 4.0%; Inert (Non-asbestos): 2.7%

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-65	118101276-65	*No*	NAD
33	**Location:** Butt End Sealant on Water Shut Off Valve; Water Main Shut Off Room		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 54.7 % **Comment:** Heat Sensitive (organic): 42.7%; Acid Soluble (inorganic): 2.5%; Inert (Non-asbestos): 54.7%			
18165-13-66	118101276-66	*No*	NAD
33	**Location:** Butt End Sealant on Water Shut Off Valve; Water Main Shut Off Room - NE		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 55.2 % **Comment:** Heat Sensitive (organic): 42.3%; Acid Soluble (inorganic): 2.5%; Inert (Non-asbestos): 55.2%			
18165-13-67	118101276-67	*No*	NAD
34	**Location:** Drywall; Buffet Area - Electrical Room Wall		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 5 %, Non-fibrous 95 %			
18165-13-68	118101276-68	*No*	NAD
34	**Location:** Drywall; Buffet Area - East Wall		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 5 %, Fibrous glass 2 %, Non-fibrous 93 %			
18165-13-69	118101276-69	*No*	NAD
35	**Location:** Joint Compound ; Buffet Area - Electrical Room Wall		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-70 35	118101276-70 **Location:** Joint Compound ; Buffet Area - East Wall	*No*	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
18165-13-71 36	118101276-71 **Location:** Paper Tape Beneath Joint Compound ; Buffet Area - Electrical Room Wall	*No*	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
18165-13-72 36	118101276-72 **Location:** Paper Tape Beneath Joint Compound ; Buffet Area - East Wall	*No*	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Brown, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
18165-13-73 37	118101276-73 **Location:** Panel Adhesive on Drywall; Buffet Area, South Corridor - West Wall	*No*	NAD (by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 14.9 % **Comment:** Heat Sensitive (organic): 30.5%; Acid Soluble (inorganic): 54.6%; Inert (Non-asbestos): 14.9%			
18165-13-74 37	118101276-74 **Location:** Panel Adhesive on Drywall; Buffet Area, South Corridor - West Wall	*No*	NAD (by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 13.2 % **Comment:** Heat Sensitive (organic): 41.9%; Acid Soluble (inorganic): 44.9%; Inert (Non-asbestos): 13.2%			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-75 38	118101276-75 **Location:** 2' x 2' Hard Ceiling Tile; Theater - Above Stage	*No*	NAD (by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 34 % **Comment:** Heat Sensitive (organic): 17.4%; Acid Soluble (inorganic): 48.6%; Inert (Non-asbestos): 34.0%			
18165-13-76 38	118101276-76 **Location:** 2' x 2' Hard Ceiling Tile; Theater - East Arch	*No*	NAD (by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 29.4 % **Comment:** Heat Sensitive (organic): 17.4%; Acid Soluble (inorganic): 53.2%; Inert (Non-asbestos): 29.4%			
18165-13-77 39	118101276-77 **Location:** Drywall; Theater, Stage Area - East Wall	*No*	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 20 %, Fibrous glass 2 %, Non-fibrous 78 %			
18165-13-78 39	118101276-78 **Location:** Drywall; Theater, NE Area - East Wall	*No*	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass 5 %, Non-fibrous 85 %			
18165-13-79 40	118101276-79 **Location:** Joint Compound; Theater, Stage Area - East Wall	*No*	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-80	118101276-80	*No*	NAD
40	**Location:** Joint Compound; Theater, NE Area - East Wall		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
18165-13-81	118101276-81	*No*	NAD
41	**Location:** Carpet Adhesive on Concrete; Theater, South Stage - SE Area		(by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 22 % **Comment:** Heat Sensitive (organic): 41.2%; Acid Soluble (inorganic): 36.8%; Inert (Non-asbestos): 22.0%			
18165-13-82	118101276-82	*No*	NAD
41	**Location:** Carpet Adhesive on Concrete; Theater, South Stage - SW Area		(by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 30.6 % **Comment:** Heat Sensitive (organic): 56.2%; Acid Soluble (inorganic): 13.2%; Inert (Non-asbestos): 30.6%			
18165-13-83	118101276-83	*No*	NAD
42	**Location:** Gray Flange Sealant; 2nd Floor - NE Vertical Duct on NE HVAC Duct on Floor		(by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 7.7 % **Comment:** Heat Sensitive (organic): 54.0%; Acid Soluble (inorganic): 38.3%; Inert (Non-asbestos): 7.7%			
18165-13-84	118101276-84	*No*	NAD
42	**Location:** Gray Flange Sealant; 2nd Floor - NW Vertical Duct on Bare Sheet Metal Duct		(by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 7.8 % **Comment:** Heat Sensitive (organic): 54.2%; Acid Soluble (inorganic): 38.0%; Inert (Non-asbestos): 7.8%			

See Reporting notes on last page

PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-85	118101276-85	*No*	NAD
43	**Location:** Store Front Style Window Glazing Compound; 2nd Floor - West Wall, Center Window		(by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 12.2 % **Comment:** Heat Sensitive (organic): 87.8%; Acid Soluble (inorganic): -0.1%; Inert (Non-asbestos): 12.2%			
18165-13-86	118101276-86	*No*	NAD
43	**Location:** Store Front Style Window Glazing Compound; 2nd Floor - South Center Window		(by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.7 % **Comment:** Heat Sensitive (organic): 87.8%; Acid Soluble (inorganic): 0.5%; Inert (Non-asbestos): 11.7%			
18165-13-87	118101276-87	*No*	NAD
44	**Location:** Joint Compound; 2nd Floor - West Wall (Damaged Area) by Window		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
18165-13-88	118101276-88	*No*	NAD
44	**Location:** Joint Compound; 2nd Floor - South Wall at Window Well		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
18165-13-89	118101276-89	*No*	NAD
45	**Location:** Paper Tape Beneath Joint Compoud; 2nd Floor - South Wall, Center Window		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-90	118101276-90	*No*	NAD
45	**Location:** Paper Tape Beneath Joint Compoud; 2nd Floor - West Wall, Below Window		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
18165-13-91	118101276-91	*No*	NAD
46	**Location:** Drywall; 2nd Floor - West Wall (Damaged Area) by Window		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 5 %, Non-fibrous 95 %			
18165-13-92	118101276-92	*No*	NAD
46	**Location:** Drywall; 2nd Floor - South Wall, Center		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 4 %, Non-fibrous 96 %			
18165-13-93	118101276-93	*No*	NAD
47	**Location:** Roof Tar Sealant Beneath Metal Foil on Metal Deck; Roof - North-South Wing, Center, West of Hatch		(by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.4 % **Comment:** Heat Sensitive (organic): 77.9%; Acid Soluble (inorganic): 19.7%; Inert (Non-asbestos): 2.4%			
18165-13-94	118101276-94	*No*	NAD
47	**Location:** Roof Tar Sealant Beneath Metal Foil on Metal Deck; Roof - East-West Wing, Center Roof		(by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.7 % **Comment:** Heat Sensitive (organic): 79.4%; Acid Soluble (inorganic): 18.9%; Inert (Non-asbestos): 1.7%			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-95	118101276-95	*Yes*	14.2 %
48	**Location:** Black Tar at Base of Round Vent Support Base; Roof - North-South Wing, East Center Vent		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 14.2 %			
Other Material: Non-fibrous 3.6 %			
Comment: Heat Sensitive (organic): 79.2%; Acid Soluble (inorganic): 3.0%; Inert (Non-asbestos): 3.6%			
18165-13-96	118101276-96		NA/PS
48	**Location:** Black Tar at Base of Round Vent Support Base; Roof - NE Corner		
Analyst Description: Bulk Material			
Asbestos Types:			
Other Material:			
Comment: Heat Sensitive (organic): 71.9%; Acid Soluble (inorganic): 20.2%; Inert (Non-asbestos): 7.9%			
18165-13-97	118101276-97	*No*	NAD
49	**Location:** Brown Tar Patch on Screw Heads of Roof Peak; Roof - North-SouthWing, South Portion		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 9.4 %			
Comment: Heat Sensitive (organic): 52.8%; Acid Soluble (inorganic): 37.8%; Inert (Non-asbestos): 9.4%			
18165-13-98	118101276-98	*No*	NAD
49	**Location:** Brown Tar Patch on Screw Heads of Roof Peak; Roof - South end of North-South Roof		(by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 9.1 %			
Comment: Heat Sensitive (organic): 62.8%; Acid Soluble (inorganic): 28.0%; Inert (Non-asbestos): 9.1%			
18165-13-99	118101276-99	*Yes*	8.3 %
50	**Location:** Gray-Black Tar Patch on Base of Copper Vent on Metal Roof; Roof - South Portion of North-South Rear Part		(by NYS ELAP 198.6) by Jean L. Mayes on 10/12/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 8.3 %			
Other Material: Non-fibrous 10.4 %			
Comment: Heat Sensitive (organic): 77.8%; Acid Soluble (inorganic): 3.5%; Inert (Non-asbestos): 10.4%			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-100 50	118101276-100 **Location:** Gray-Black Tar Patch on Base of Copper Vent on Metal Roof; Roof - Near Peak of South end		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 76.1%; Acid Soluble (inorganic): 6.7%; Inert (Non-asbestos): 17.2%			
18165-13-101 51	118101276-101 **Location:** Tar and Rubber Patch - 12" x 12"; Roof - West Side of Far South Roof	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.3 % **Comment:** Heat Sensitive (organic): 73.9%; Acid Soluble (inorganic): 24.8%; Inert (Non-asbestos): 1.3%			
18165-13-102 51	118101276-102 **Location:** Tar and Rubber Patch - 12" x 12"; Roof - Northern Most Patch on South End	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.5 % **Comment:** Heat Sensitive (organic): 72.5%; Acid Soluble (inorganic): 26.0%; Inert (Non-asbestos): 1.5%			
18165-13-103 52	118101276-103 **Location:** Gray-Black Tar on Flashing ; Roof - East End of SW Roof - NE Corner	***Yes***	11.1 % (by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 11.1 % **Other Material:** Non-fibrous 5.6 % **Comment:** Heat Sensitive (organic): 79.5%; Acid Soluble (inorganic): 3.8%; Inert (Non-asbestos): 5.6%			
18165-13-104 52	118101276-104 **Location:** Gray-Black Tar on Flashing ; Roof - East End of SW Roof - NE Corner		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 78.3%; Acid Soluble (inorganic): 4.0%; Inert (Non-asbestos): 17.7%			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-105 53	118101276-105 **Location:** Tar on Metal Parapet Cap; Roof - North-South Wing, South end	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 5.2 % **Comment:** Heat Sensitive (organic): 93.9%; Acid Soluble (inorganic): 0.9%; Inert (Non-asbestos): 5.2%			
18165-13-106 53	118101276-106 **Location:** Tar on Metal Parapet Cap; Roof - North-South Wing at Peak	***Yes***	4.4 % (by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 4.4 % **Other Material:** Non-fibrous 12.1 % **Comment:** Heat Sensitive (organic): 80.1%; Acid Soluble (inorganic): 3.4%; Inert (Non-asbestos): 12.1%			
18165-13-107 54	118101276-107 **Location:** Black Caulk on Screw Heads; Roof - SW Roof, SW Corner	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 10/11/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.1 % **Comment:** Heat Sensitive (organic): 99.6%; Acid Soluble (inorganic): 0.3%; Inert (Non-asbestos): 0.1%			
18165-13-108 54	118101276-108 **Location:** Black Caulk on Screw Heads; Roof - SW Roof, SE Corner	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 10/10/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.5 % **Comment:** Heat Sensitive (organic): 99.3%; Acid Soluble (inorganic): 0.2%; Inert (Non-asbestos): 0.5%			
18165-13-109 55	118101276-109 **Location:** Tar and Rubber Patch ; Roof - Far West Parapet on SW Roof	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 10/10/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.6 % **Comment:** Heat Sensitive (organic): 77.6%; Acid Soluble (inorganic): 20.8%; Inert (Non-asbestos): 1.6%			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-110 55	118101276-110 **Location:** Tar and Rubber Patch ; Roof - Far West Parapet on SW Roof	*No*	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 10/10/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.9 % **Comment:** Heat Sensitive (organic): 76.9%; Acid Soluble (inorganic): 21.3%; Inert (Non-asbestos): 1.9%			
18165-13-111 56	118101276-111 **Location:** Gray-Black Tar at the Base of AHU; Roof - SW Metal Roof	*Yes*	4.3 % (by NYS ELAP 198.6) by Donna M. Blackwell on 10/10/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 4.3 % **Other Material:** Non-fibrous 8.7 % **Comment:** Heat Sensitive (organic): 71.9%; Acid Soluble (inorganic): 15.1%; Inert (Non-asbestos): 8.7%			
18165-13-112 56	118101276-112 **Location:** Gray-Black Tar at the Base of AHU; Roof - SW Roof, NE Corner		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 78.0%; Acid Soluble (inorganic): 7.6%; Inert (Non-asbestos): 14.4%			
18165-13-113 57	118101276-113 **Location:** Black Tar on Concrete Parapet - 2" Seam; Roof - North-South Wing, West Parapet	*No*	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 10/10/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.7 % **Comment:** Heat Sensitive (organic): 85.2%; Acid Soluble (inorganic): 3.1%; Inert (Non-asbestos): 11.7%			
18165-13-114 57	118101276-114 **Location:** Black Tar on Concrete Parapet - 2" Seam; Roof - NW Corner at Bend to East Roof	*No*	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 10/10/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 13.1 % **Comment:** Heat Sensitive (organic): 58.0%; Acid Soluble (inorganic): 28.9%; Inert (Non-asbestos): 13.1%			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-115 58	118101276-115 **Location:** Window Frame Caulk ; Exterior - North Wall, Center Window	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 10/10/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 9.8 % **Comment:** Heat Sensitive (organic): 63.7%; Acid Soluble (inorganic): 26.4%; Inert (Non-asbestos): 9.8%			
18165-13-116 58	118101276-116 **Location:** Window Frame Caulk ; Exterior - West Side, Center - North	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 10/10/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 14.9 % **Comment:** Heat Sensitive (organic): 34.8%; Acid Soluble (inorganic): 50.2%; Inert (Non-asbestos): 14.9%			
18165-13-117 59	118101276-117 **Location:** Stucco; Exterior - West Side, Center - North	***No***	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Multi-Colored, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 5 %, Non-fibrous 95 %			
18165-13-118 59	118101276-118 **Location:** Stucco; Exterior - West Side, Center - South	***No***	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Multi-Colored, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
18165-13-119 59	118101276-119 **Location:** Stucco; Exterior - West Side, Center - North	***No***	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Multi-Colored, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-120	118101276-120	*No*	NAD
59	**Location:** Stucco; Exterior - West Side, Far SW at Coffee Shop		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Multi-Colored, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 10 %, Non-fibrous 90 %			
18165-13-121	118101276-121	*No*	NAD
59	**Location:** Stucco; Exterior - SW Corner of Coffee Shop at South Wall Corner		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Multi-Colored, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 5 %, Non-fibrous 95 %			
18165-13-122	118101276-122	*No*	NAD
60	**Location:** Door Frame Caulk; Exterior - North Door Center		(by NYS ELAP 198.6) by Donna M. Blackwell on 10/10/18
Analyst Description: White/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 36.3 % **Comment:** Heat Sensitive (organic): 21.4%; Acid Soluble (inorganic): 42.4%; Inert (Non-asbestos): 36.3%			
18165-13-123	118101276-123	*No*	NAD
60	**Location:** Door Frame Caulk; Exterior - North Side, Center		(by NYS ELAP 198.6) by Donna M. Blackwell on 10/10/18
Analyst Description: White/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 20.2 % **Comment:** Heat Sensitive (organic): 22.0%; Acid Soluble (inorganic): 57.8%; Inert (Non-asbestos): 20.2%			
18165-13-124	118101276-124	*No*	NAD [1]
61	**Location:** Spray-On Fireproofing; NW Lobby - on Beam Near Ceiling, Above Ceiling Tiles		(by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 80 %, Non-fibrous 20 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-125 61	118101276-125 **Location:** Spray-On Fireproofing; 2nd Floor - Column, Center, West	***No***	NAD [1] (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 80 %, Non-fibrous 20 %			
18165-13-126 61	118101276-126 **Location:** Spray-On Fireproofing; 2nd Floor - Column, Center, East	***No***	NAD [1] (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 80 %, Non-fibrous 20 %			
18165-13-127 61	118101276-127 **Location:** Spray-On Fireproofing; 2nd Floor - Beam at Ceiling, East Wall	***No***	NAD [1] (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 80 %, Non-fibrous 20 %			
18165-13-128 61	118101276-128 **Location:** Spray-On Fireproofing; 1st Floor - Valve Room Behind Kitchen, NE	***No***	NAD [1] (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 80 %, Non-fibrous 20 %			
18165-13-129 61	118101276-129 **Location:** Spray-On Fireproofing; Theater - on Beams Above Suspended Ceiling Tiles	***No***	NAD [1] (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 80 %, Non-fibrous 20 %			
18165-13-130 61	118101276-130 **Location:** Spray-on Fireproofing; 1st Floor - SE Miniature Golf, on Column	***No***	NAD [1] (by NYS ELAP 198.1) by Jean L. Mayes on 10/11/18
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 80 %, Non-fibrous 20 %			

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PLM Bulk Asbestos Report

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Reporting Notes:

(1) Vermiculite was not detected during analysis.

Analyzed by: Jean L. Mayes Date: 10/11/2018 Reviewed by:

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Client Name: Watts Architecture & Engineers

Table I

Summary of Bulk Asbestos Analysis Results

18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	18165-13-01	1	0.480	16.0	81.1	2.9	NAD	NAD
Location:	12" x 12 " Beige Floor Tile; NW Lobby							
02	18165-13-02	1	0.359	14.7	83.2	2.2	NAD	NAD
Location:	12" x 12 " Beige Floor Tile; West Entrance to Buffet							
03	18165-13-03	2	0.295	50.0	39.3	10.8	NAD	NAD
Location:	Mastic Associated with 12" x 12" Beige Floor Tile; NW Lobby							
04	18165-13-04	2	0.210	24.5	62.2	13.3	NAD	NAD
Location:	Mastic Associated with 12" x 12" Beige Floor Tile; West Entrance to Buffet							
05	18165-13-05	3	0.455	21.9	45.1	33.0	NAD	NAD
Location:	Lower Layer 12" x 12" Tan Floor Tiles, Beneath Beige and Purple; NW Lobby							
06	18165-13-06	3	0.219	20.9	48.8	30.3	NAD	NAD
Location:	Lower Layer 12" x 12" Tan Floor Tiles, Beneath Beige and Purple; NW Lobby							
07	18165-13-07	4	0.324	20.3	70.5	9.2	NAD	NAD
Location:	Mastic Associated with Lower Layer 12" x 12" ; NW Lobby							
08	18165-13-08	4	0.300	21.9	68.4	9.7	NAD	NAD
Location:	Mastic Associated with Lower Layer 12" x 12" ; West Lobby							
09	18165-13-09	5	----	----	----	----	NAD	NA
Location:	Leveling Compound Beneath Top Layers 12" x 12" Beige and Tan Tiles; NW Lobby							
10	18165-13-10	5	----	----	----	----	NAD	NA
Location:	Leveling Compound Beneath Top Layers 12" x 12" Beige and Tan Tiles; NW Lobby							
11	18165-13-11	6	0.367	23.2	46.3	30.5	NAD	NAD
Location:	12" x 12" Floor Tile - Beige Rainbow Multi-color with Streaks; NW Vestibule							
12	18165-13-12	6	0.410	22.9	48.6	28.5	NAD	NAD
Location:	12" x 12" Floor Tile - Beige Rainbow Multi-color with Streaks; East Side Loading Area Behind Kitchen							
13	18165-13-13	7	0.184	62.9	21.5	15.5	NAD	NAD
Location:	Mastic Associated with 12" x 12" Beige Floor Tiles with Rainbow; NW Vestibule							
14	18165-13-14	7	0.463	39.4	47.3	13.3	NAD	NAD
Location:	Mastic Associated with 12" x 12" Beige Floor Tiles with Rainbow; East Side Loading Area Behind Kitchen							
15	18165-13-15	8	0.423	21.3	62.0	16.7	NAD	NAD
Location:	12" x 12" Purple Floor Tile; NW Reception Room by NW Lobby							
16	18165-13-16	8	0.302	19.3	66.6	14.1	NAD	NAD
Location:	12" x 12" Purple Floor Tile; Reception Room to Toilets							

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18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	18165-13-17	9	0.158	81.3	13.0	5.7	NAD	NAD
Location:	Mastic Associated with 12" x 12" Floor Tiles; Reception Room off NW Lobby							
18	18165-13-18	9	0.195	60.3	31.8	7.8	NAD	NAD
Location:	Mastic Associated with 12" x 12" Floor Tiles; Reception Room off NW Lobby							
19	18165-13-19	10	0.357	40.5	3.2	56.3	NAD	NAD
Location:	4" Black Cove Base; NW Lobby							
20	18165-13-20	10	0.291	39.6	4.1	56.3	NAD	NAD
Location:	4" Black Cove Base; NW Offices West of Buffet							
21	18165-13-21	11	0.466	33.4	51.0	15.6	NAD	NAD
Location:	Mastic Associated with 4" Cove Base; NW Lobby							
22	18165-13-22	11	0.675	33.1	56.5	10.4	NAD	NAD
Location:	Mastic Associated with 4" Cove Base; NW Offices West of Buffet							
23	18165-13-23	12	----	----	----	----	NAD	NA
Location:	Drywall Ceiling; NW Lobby							
24	18165-13-24	12	----	----	----	----	NAD	NA
Location:	Drywall Ceiling; NW Corridor Past Offices to Buffet							
25	18165-13-25	13	----	----	----	----	NAD	NA
Location:	Joint Compound on Ceiling; NW Lobby							
26	18165-13-26	13	----	----	----	----	NAD	NA
Location:	Joint Compound on Ceiling; NW Corridor Past Offices to Buffet							
27	18165-13-27	14	----	----	----	----	NAD	NA
Location:	Paper Tape Beneath Joint Compound on Ceiling; NW Lobby							
28	18165-13-28	14	----	----	----	----	NAD	NA
Location:	Paper Tape Beneath Joint Compound on Ceiling; NW Corridor Past Offices to Buffet							
29	18165-13-29	15	0.314	90.5	9.4	0.1	NAD	NAD
Location:	Door and Window Glazing Compound on Store Front Style Entrance; NW Vestibule							
30	18165-13-30	15	0.291	88.2	11.7	0.1	NAD	NAD
Location:	Door and Window Glazing Compound on Store Front Style Entrance; North Wall Center Entrance to Dining Area							
31	18165-13-31	16	0.536	64.0	28.2	7.8	NAD	NAD
Location:	Store Front Style Exterior Metal Door Frame Caulk; NW Vestibule							
32	18165-13-32	16	0.433	51.7	45.1	3.3	NAD	NAD
Location:	Store Front Style Exterior Metal Door Frame Caulk; North Wall Center to Dining							

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33	18165-13-33	17	0.201	14.1	52.9	33.0	NAD	NAD
Location:	2' x 2' Rough Finish Ceiling Tile ; Office South of NW Lobby							
34	18165-13-34	17	0.268	13.8	51.7	34.5	NAD	NAD
Location:	2' x 2' Rough Finish Ceiling Tile ; NW Offices West of Buffet							
35	18165-13-35	18	0.475	52.8	12.1	35.1	NAD	NAD
Location:	Carpet Adhesive on Concrete; Office South of NW Lobby							
36	18165-13-36	18	0.466	55.5	8.8	35.7	NAD	NAD
Location:	Carpet Adhesive on Concrete; NW Offices West of Buffet							
37	18165-13-37	19	----	----	----	----	NAD	NA
Location:	Grout Associated with 4" Ceramic Wall Tiles; Men's Toilet - NW Area							
38	18165-13-38	19	----	----	----	----	NAD	NA
Location:	Grout Associated with 4" Ceramic Wall Tiles; NW Toilets							
39	18165-13-39	20	0.341	35.4	55.1	9.5	NAD	NAD
Location:	Thin Set Associated with 4" Ceramic Wall Tiles; Men's Toilet - NW Area							
40	18165-13-40	20	0.461	40.8	48.5	10.7	NAD	NAD
Location:	Thin Set Associated with 4" Ceramic Wall Tiles; Women's Toilet - NW Area							
41	18165-13-41	21	----	----	----	----	NAD	NA
Location:	Grout Associated with 8" x 8" Gray Ceramic Floor Tiles; Men's Toilet - NW Area							
42	18165-13-42	21	----	----	----	----	NAD	NA
Location:	Grout Associated with 8" x 8" Gray Ceramic Floor Tiles; Women's Toilet - NW Area							
43	18165-13-43	22	----	----	----	----	NAD	NA
Location:	Set Coat Associated with 8" x 8" Gray Ceramic Floor Tiles; Men's Toilet - NW Area							
44	18165-13-44	22	----	----	----	----	NAD	NA
Location:	Set Coat Associated with 8" x 8" Gray Ceramic Floor Tiles; Women's Toilet - NW Area							
45	18165-13-45	23	0.291	72.8	3.7	23.5	NAD	NAD
Location:	Bathroom Caulk; Men's Toilet - NW Area perimeter of sink							
46	18165-13-46	23	0.298	63.9	12.6	23.5	NAD	NAD
Location:	Bathroom Caulk; Women's Toilet - NW Area perimeter of toilet							
47	18165-13-47	24	0.255	21.7	38.7	39.6	NAD	NAD
Location:	2' x 4' Pinhole and Slot Pattern Ceiling Tile; NW Offices							
48	18165-13-48	24	0.162	22.1	37.9	40.0	NAD	NAD
Location:	2' x 4' Pinhole and Slot Pattern Ceiling Tile; NW Offices							

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18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
49	18165-13-49	25	0.333	15.4	35.9	48.7	NAD	NAD
Location:	2' x 4' Ceiling Tiles with Faux 2' x 2' Pattern; SW of Store - Smokin' Joe's Coffee House Ceiling							
50	18165-13-50	25	0.230	14.8	34.6	50.5	NAD	NAD
Location:	2' x 4' Ceiling Tiles with Faux 2' x 2' Pattern; SW of Store - Smokin' Joe's Coffee House Ceiling							
51	18165-13-51	26	0.422	17.3	49.0	33.7	NAD	NAD
Location:	2' x 2' Hard Suspended Ceiling Tile; NE Buffet Room at North Wall							
52	18165-13-52	26	0.213	13.3	55.2	31.5	NAD	NAD
Location:	2' x 2' Hard Suspended Ceiling Tile; NE Buffet Room - East Area by Kitchen							
53	18165-13-53	27	0.369	90.5	9.3	0.1	NAD	NAD
Location:	Window Glazing Compound; NE Buffet Room - North Wall Center							
54	18165-13-54	27	0.211	91.0	8.7	0.3	NAD	NAD
Location:	Window Glazing Compound; NW Office, West of Dining Area - North Wall							
55	18165-13-55	28	0.575	58.2	5.3	36.4	NAD	NAD
Location:	Yellow Epoxy Coating on Concrete Floor; NE Buffet Room - NE Corner							
56	18165-13-56	28	0.510	54.6	8.3	37.1	NAD	NAD
Location:	Yellow Epoxy Coating on Concrete Floor; Buffet Room by Theater - NE							
57	18165-13-57	29	0.307	38.1	5.4	56.6	NAD	NAD
Location:	4" Black Cove Base; Buffet Area - NE Corner							
58	18165-13-58	29	0.340	47.0	52.1	0.9	NAD	NAD
Location:	4" Black Cove Base; Buffet Area - Behind Bar							
59	18165-13-59	30	0.761	35.1	35.0	29.9	NAD	NAD
Location:	Mastic Associated with 4" Black Cove Base; Buffet Area - NE Corner							
60	18165-13-60	30	0.462	45.6	42.4	11.9	NAD	NAD
Location:	Mastic Associated with 4" Black Cove Base; Buffet Area - Behind Bar							
61	18165-13-61	31	0.248	92.4	5.4	2.2	NAD	NAD
Location:	Gasket at Water Supply Line; Water Main Shut Off Room - NE							
62	18165-13-62	31	0.345	93.4	3.7	2.9	NAD	NAD
Location:	Gasket at Water Supply Line; Water Main Shut Off Room - NE							
63	18165-13-63	32	0.417	93.3	3.6	3.0	NAD	NAD
Location:	Gasket in Flange - Water Supply Line; Water Main Shut Off Room - NE							
64	18165-13-64	32	0.419	93.3	4.0	2.7	NAD	NAD
Location:	Gasket in Flange - Water Supply Line; Water Main Shut Off Room - NE							

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18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
65	18165-13-65	33	0.694	42.7	2.5	54.7	NAD	NAD
Location:	Butt End Sealant on Water Shut Off Valve; Water Main Shut Off Room							
66	18165-13-66	33	0.528	42.3	2.5	55.2	NAD	NAD
Location:	Butt End Sealant on Water Shut Off Valve; Water Main Shut Off Room - NE							
67	18165-13-67	34	----	----	----	----	NAD	NA
Location:	Drywall; Buffet Area - Electrical Room Wall							
68	18165-13-68	34	----	----	----	----	NAD	NA
Location:	Drywall; Buffet Area - East Wall							
69	18165-13-69	35	----	----	----	----	NAD	NA
Location:	Joint Compound ; Buffet Area - Electrical Room Wall							
70	18165-13-70	35	----	----	----	----	NAD	NA
Location:	Joint Compound ; Buffet Area - East Wall							
71	18165-13-71	36	----	----	----	----	NAD	NA
Location:	Paper Tape Beneath Joint Compound ; Buffet Area - Electrical Room Wall							
72	18165-13-72	36	----	----	----	----	NAD	NA
Location:	Paper Tape Beneath Joint Compound ; Buffet Area - East Wall							
73	18165-13-73	37	0.367	30.5	54.6	14.9	NAD	NAD
Location:	Panel Adhesive on Drywall; Buffet Area, South Corridor - West Wall							
74	18165-13-74	37	0.295	41.9	44.9	13.2	NAD	NAD
Location:	Panel Adhesive on Drywall; Buffet Area, South Corridor - West Wall							
75	18165-13-75	38	0.294	17.4	48.6	34.0	NAD	NAD
Location:	2' x 2' Hard Ceiling Tile; Theater - Above Stage							
76	18165-13-76	38	0.359	17.4	53.2	29.4	NAD	NAD
Location:	2' x 2' Hard Ceiling Tile; Theater - East Arch							
77	18165-13-77	39	----	----	----	----	NAD	NA
Location:	Drywall; Theater, Stage Area - East Wall							
78	18165-13-78	39	----	----	----	----	NAD	NA
Location:	Drywall; Theater, NE Area - East Wall							
79	18165-13-79	40	----	----	----	----	NAD	NA
Location:	Joint Compound; Theater, Stage Area - East Wall							
80	18165-13-80	40	----	----	----	----	NAD	NA
Location:	Joint Compound; Theater, NE Area - East Wall							

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81	18165-13-81	41	0.748	41.2	36.8	22.0	NAD	NAD
Location:	Carpet Adhesive on Concrete; Theater, South Stage - SE Area							
82	18165-13-82	41	0.221	56.2	13.2	30.6	NAD	NAD
Location:	Carpet Adhesive on Concrete; Theater, South Stage - SW Area							
83	18165-13-83	42	0.313	54.0	38.3	7.7	NAD	NAD
Location:	Gray Flange Sealant; 2nd Floor - NE Vertical Duct on NE HVAC Duct on Floor							
84	18165-13-84	42	0.419	54.2	38.0	7.8	NAD	NAD
Location:	Gray Flange Sealant; 2nd Floor - NW Vertical Duct on Bare Sheet Metal Duct							
85	18165-13-85	43	0.152	87.8	-0.1	12.2	NAD	NAD
Location:	Store Front Style Window Glazing Compound; 2nd Floor - West Wall, Center Window							
86	18165-13-86	43	0.189	87.8	0.5	11.7	NAD	NAD
Location:	Store Front Style Window Glazing Compound; 2nd Floor - South Center Window							
87	18165-13-87	44	----	----	----	----	NAD	NA
Location:	Joint Compound; 2nd Floor - West Wall (Damaged Area) by Window							
88	18165-13-88	44	----	----	----	----	NAD	NA
Location:	Joint Compound; 2nd Floor - South Wall at Window Well							
89	18165-13-89	45	----	----	----	----	NAD	NA
Location:	Paper Tape Beneath Joint Compoud; 2nd Floor - South Wall, Center Window							
90	18165-13-90	45	----	----	----	----	NAD	NA
Location:	Paper Tape Beneath Joint Compoud; 2nd Floor - West Wall, Below Window							
91	18165-13-91	46	----	----	----	----	NAD	NA
Location:	Drywall; 2nd Floor - West Wall (Damaged Area) by Window							
92	18165-13-92	46	----	----	----	----	NAD	NA
Location:	Drywall; 2nd Floor - South Wall, Center							
93	18165-13-93	47	0.338	77.9	19.7	2.4	NAD	NAD
Location:	Roof Tar Sealant Beneath Metal Foil on Metal Deck; Roof - North-South Wing, Center, West of Hatch							
94	18165-13-94	47	0.440	79.4	18.9	1.7	NAD	NAD
Location:	Roof Tar Sealant Beneath Metal Foil on Metal Deck; Roof - East-West Wing, Center Roof							
95	18165-13-95	48	0.339	79.2	3.0	3.6	Chrysotile 14.2	NA
Location:	Black Tar at Base of Round Vent Support Base; Roof - North-South Wing, East Center Vent							
96	18165-13-96	48	0.232	71.9	20.2	7.9	NA/PS	NA
Location:	Black Tar at Base of Round Vent Support Base; Roof - NE Corner							

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97	18165-13-97	49	0.278	52.8	37.8	9.4	NAD	NAD
Location:	Brown Tar Patch on Screw Heads of Roof Peak; Roof - North-SouthWing, South Portion							
98	18165-13-98	49	0.327	62.8	28.0	9.1	NAD	NAD
Location:	Brown Tar Patch on Screw Heads of Roof Peak; Roof - South end of North-South Roof							
99	18165-13-99	50	0.378	77.8	3.5	10.4	Chrysotile 8.3	NA
Location:	Gray-Black Tar Patch on Base of Copper Vent on Metal Roof; Roof - South Portion of North-South Rear Part							
100	18165-13-100	50	0.295	76.1	6.7	17.2	NA/PS	NA
Location:	Gray-Black Tar Patch on Base of Copper Vent on Metal Roof; Roof - Near Peak of South end							
101	18165-13-101	51	0.289	73.9	24.8	1.2	NAD	Chrysotile Trace
Location:	Tar and Rubber Patch - 12" x 12"; Roof - West Side of Far South Roof							
102	18165-13-102	51	0.418	72.5	26.0	1.4	NAD	Chrysotile Trace
Location:	Tar and Rubber Patch - 12" x 12"; Roof - Northern Most Patch on South End							
103	18165-13-103	52	0.330	79.5	3.8	5.6	Chrysotile 11.1	NA
Location:	Gray-Black Tar on Flashing ; Roof - East End of SW Roof - NE Corner							
104	18165-13-104	52	0.280	78.3	4.0	17.7	NA/PS	NA
Location:	Gray-Black Tar on Flashing ; Roof - East End of SW Roof - NE Corner							
105	18165-13-105	53	0.335	93.9	0.9	5.2	NAD	NA
Location:	Tar on Metal Parapet Cap; Roof - North-South Wing, South end							
106	18165-13-106	53	0.269	80.1	3.4	12.1	Chrysotile 4.4	NA
Location:	Tar on Metal Parapet Cap; Roof - North-South Wing at Peak							
107	18165-13-107	54	0.308	99.6	0.3	0.1	NAD	NAD
Location:	Black Caulk on Screw Heads; Roof - SW Roof, SW Corner							
108	18165-13-108	54	0.242	99.3	0.2	0.5	NAD	NAD
Location:	Black Caulk on Screw Heads; Roof - SW Roof, SE Corner							
109	18165-13-109	55	0.246	77.6	20.8	1.6	NAD	NAD
Location:	Tar and Rubber Patch ; Roof - Far West Parapet on SW Roof							
110	18165-13-110	55	0.279	76.9	21.3	1.9	NAD	NAD
Location:	Tar and Rubber Patch ; Roof - Far West Parapet on SW Roof							
111	18165-13-111	56	0.338	71.9	15.1	8.7	Chrysotile 4.3	NA
Location:	Gray-Black Tar at the Base of AHU; Roof - SW Metal Roof							
112	18165-13-112	56	0.538	78.0	7.6	14.4	NA/PS	NA
Location:	Gray-Black Tar at the Base of AHU; Roof - SW Roof, NE Corner							

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113	18165-13-113	57	0.331	85.2	3.1	11.7	NAD	NAD
Location:	Black Tar on Concrete Parapet - 2" Seam; Roof - North-South Wing, West Parapet							
114	18165-13-114	57	0.513	58.0	28.9	13.1	NAD	NAD
Location:	Black Tar on Concrete Parapet - 2" Seam; Roof - NW Corner at Bend to East Roof							
115	18165-13-115	58	0.411	63.7	26.4	9.8	NAD	NAD
Location:	Window Frame Caulk ; Exterior - North Wall, Center Window							
116	18165-13-116	58	0.340	34.8	50.2	14.9	NAD	NAD
Location:	Window Frame Caulk ; Exterior - West Side, Center - North							
117	18165-13-117	59	----	----	----	----	NAD	NA
Location:	Stucco; Exterior - West Side, Center - North							
118	18165-13-118	59	----	----	----	----	NAD	NA
Location:	Stucco; Exterior - West Side, Center - South							
119	18165-13-119	59	----	----	----	----	NAD	NA
Location:	Stucco; Exterior - West Side, Center - North							
120	18165-13-120	59	----	----	----	----	NAD	NA
Location:	Stucco; Exterior - West Side, Far SW at Coffee Shop							
121	18165-13-121	59	----	----	----	----	NAD	NA
Location:	Stucco; Exterior - SW Corner of Coffee Shop at South Wall Corner							
122	18165-13-122	60	0.863	21.4	42.4	36.3	NAD	NAD
Location:	Door Frame Caulk; Exterior - North Door Center							
123	18165-13-123	60	0.606	22.0	57.8	20.2	NAD	NAD
Location:	Door Frame Caulk; Exterior - North Side, Center							
124	18165-13-124	61	----	----	----	----	NAD	NA
Location:	Spray-On Fireproofing; NW Lobby - on Beam Near Ceiling, Above Ceiling Tiles							
125	18165-13-125	61	----	----	----	----	NAD	NA
Location:	Spray-On Fireproofing; 2nd Floor - Column, Center, West							
126	18165-13-126	61	----	----	----	----	NAD	NA
Location:	Spray-On Fireproofing; 2nd Floor - Column, Center, East							
127	18165-13-127	61	----	----	----	----	NAD	NA
Location:	Spray-On Fireproofing; 2nd Floor - Beam at Ceiling, East Wall							
128	18165-13-128	61	----	----	----	----	NAD	NA
Location:	Spray-On Fireproofing; 1st Floor - Valve Room Behind Kitchen, NE							

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129	18165-13-129	61	----	----	----	----	NAD	NA
Location:	Spray-On Fireproofing; Theater - on Beams Above Suspended Ceiling Tiles							
130	18165-13-130	61	----	----	----	----	NAD	NA
Location:	Spray-on Fireproofing; 1st Floor - SE Miniature Golf, on Column							

TEM Analyzed By: T. Brian Keith_____ Date Analyzed: 10/12/2018 Reviewed By: _____ Date Reviewed: 10/12/2018

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%;
PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984);
TEM prep by EPA 600/R-93/116 Section 2.3 (analysis by Section 2.5, not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984);

** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

WATTS ARCHITECTURE & ENGINEERING
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

118101276

Client: USA Niagara Development Corporation
Project: Niagara Falls Due Diligence Reports - Downtown Properties
Building / Location: 333 1st St./217 Old Falls St. Smokin' Joe's Native Center
Contact: Edward J. Jones at (716) 206-5142
Preliminary Results to: ejones@watts-ae.com
Mail Report & Invoice to: Watts Architecture & Engineering
95 Perry Street, Buffalo, NY 14203

Date: Thurs 10/04/2018
Watts Project No.: 18165

Analysis Requested:
198.1 x 198.6 x 198.4 x

Turnaround Requested:

3 Hr.	48 Hr.
6 Hr.	72 Hr.
12 Hr.	4 Day
24 Hr.	X 5 Day
	7 Day

	Description		Location	Laboratory PLM	Laboratory TEM
18165-13-01	12" x 12 " Beige Floor Tile	1	NW Lobby		
18165-13-02	12" x 12 " Beige Floor Tile	1	West Entrance to Buffet		
18165-13-03	Mastic Associated with 12" x 12" Beige Floor Tile	2	NW Lobby		
18165-13-04	Mastic Associated with 12" x 12" Beige Floor Tile	2	West Entrance to Buffet		
18165-13-05	Lowe Layer 12" x 12" Tan Floor Tiles, Beneath Beige and Purple	3	NW Lobby		
18165-13-06	Lowe Layer 12" x 12" Tan Floor Tiles, Beneath Beige and Purple	3	NW Lobby		
18165-13-07	Mastic Associated with Lower Layer 12" x 12"	4	NW Lobby		
18165-13-08	Mastic Associated with Lower Layer 12" x 12"	4	West Lobby		
18165-13-09	Leveling Compound Beneath Top Layers 12" x 12" Beige and Tan Tiles	5	NW Lobby		
18165-13-10	Leveling Compound Beneath Top Layers 12" x 12" Beige and Tan Tiles	5	NW Lobby		
18165-13-11	12" x 12" Floor Tile - Beige Rainbow Multi-color with Streaks	6	NW Vestibule		
18165-13-12	12" x 12" Floor Tile - Beige Rainbow Multi-color with Streaks	6	East Side Loading Area Behind Kitchen		
18165-13-13	Mastic Associated with 12" x 12" Beige Floor Tiles with Rainbow	7	NW Vestibule		
18165-13-14	Mastic Associated with 12" x 12" Beige Floor Tiles with Rainbow	7	East Side Loading Area Behind Kitchen		
18165-13-15	12" x 12" Purple Floor Tile	8	NW Reception Room by NW Lobby		
18165-13-16	12" x 12" Purple Floor Tile	8	Reception Room to Toilets		
18165-13-17	Mastic Associated with 12" x 12" Floor Tiles	9	Reception Room off NW Lobby		
18165-13-18	Mastic Associated with 12" x 12" Floor Tiles	9	Reception Room off NW Lobby		

Sampled By: Edward J Jones **Date:** 10/04/18 **Received By:** _____ **Date:** _____

Relinquished By: Edward J Jones **Date:** 10/05/18 16:30 **Received By:** _____ **Date:** _____

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis on that sample and contact the Watts Project Manager for further instructions.

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By

WATTS ARCHITECTURE & ENGINEERING
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

118101276

Client: USA Niagara Development Corporation **Date:** Thurs 10/04/2018

Project: Niagara Falls Due Diligence Reports - Downtown Properties **Watts Project No.:** 18165

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	7 Day

18165-13-19	4" Black Cove Base	10	NW Lobby		
18165-13-20	4" Black Cove Base	10	NW Offices West of Buffet		
18165-13-21	Mastic Associated with 4" Cove Base	11	NW Lobby		
18165-13-22	Mastic Associated with 4" Cove Base	11	NW Offices West of Buffet		
18165-13-23	Drywall Ceiling	12	NW Lobby		
18165-13-24	Drywall Ceiling	12	NW Corridor Past Offices to Buffet		
18165-13-25	Joint Compound on Ceiling	13	NW Lobby		
18165-13-26	Joint Compound on Ceiling	13	NW Corridor Past Offices to Buffet		
18165-13-27	Paper Tape Beneath Joint Compound on Ceiling	14	NW Lobby		
18165-13-28	Paper Tape Beneath Joint Compound on Ceiling	14	NW Corridor Past Offices to Buffet		
18165-13-29	Door and Window Glazing Compound on Store Front Style Entrance	15	NW Vestibule		
18165-13-30	Door and Window Glazing Compound on Store Front Style Entrance	15	North Wall Center Entrance to Dining Area		
18165-13-31	Store Front Style Exterior Metal Door Frame Caulk	16	NW Vestibule		
18165-13-32	Store Front Style Exterior Metal Door Frame Caulk	16	North Wall Center to Dining		
18165-13-33	2' x 2' Rough Finish Ceiling Tile	17	Office South of NW Lobby		
18165-13-34	2' x 2' Rough Finish Ceiling Tile	17	NW Offices West of Buffet		
18165-13-35	Carpet Adhesive on Concrete	18	Office South of NW Lobby		
18165-13-36	Carpet Adhesive on Concrete	18	NW Offices West of Buffet		

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	7 Day

18165-13-37	Grout Associated with 4" Ceramic Wall Tiles	19	Men's Toilet - NW Area		
18165-13-38	Grout Associated with 4" Ceramic Wall Tiles	19	NW Toilets		
18165-13-39	Thin Set Associated with 4" Ceramic Wall Tiles	20	Men's Toilet - NW Area		
18165-13-40	Thin Set Associated with 4" Ceramic Wall Tiles	20	Women's Toilet - NW Area		
18165-13-41	Grout Associated with 8" x 8" Gray Ceramic Floor Tiles	21	Men's Toilet - NW Area		
18165-13-42	Grout Associated with 8" x 8" Gray Ceramic Floor Tiles	21	Women's Toilet - NW Area		
18165-13-43	Set Coat Associated with 8" x 8" Gray Ceramic Floor Tiles	22	Men's Toilet - NW Area		
18165-13-44	Set Coat Associated with 8" x 8" Gray Ceramic Floor Tiles	22	Women's Toilet - NW Area		
18165-13-45	Bathroom Caulk	23	Men's Toilet - NW Area perimeter of sink		
18165-13-46	Bathroom Caulk	23	Women's Toilet - NW Area perimeter of toilet		
18165-13-47	2' x 4' Pinhole and Slot Pattern Ceiling Tile	24	NW Offices		
18165-13-48	2' x 4' Pinhole and Slot Pattern Ceiling Tile	24	NW Offices		
18165-13-49	2' x 4' Ceiling Tiles with Faux 2' x 2' Pattern	25	SW of Store - Smokin' Joe's Coffee House Ceiling		
18165-13-50	2' x 4' Ceiling Tiles with Faux 2' x 2' Pattern	25	SW of Store - Smokin' Joe's Coffee House Ceiling		
18165-13-51	2' x 2' Hard Suspended Ceiling Tile	26	NE Buffet Room at North Wall		
18165-13-52	2' x 2' Hard Suspended Ceiling Tile	26	NE Buffet Room - East Area by Kitchen		
18165-13-53	Window Glazing Compound	27	NE Buffet Room - North Wall Center		
18165-13-54	Window Glazing Compound	27	NW Office, West of Dining Area - North Wall		

Sampled By: Edward J. Jones **Date:** 10/04/18 **Received By:** _____ **Date:** _____

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WATTS ARCHITECTURE & ENGINEERING
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

11810127 6 **Page:** 4 **of** 7

Client: USA Niagara Development Corporation **Date:** Thurs 10/04/2018
Project: Niagara Falls Due Diligence Reports - Downtown Properties **Watts Project No.:** 18165
Building / Location: 333 1st St./217 Old Falls St. Smokin' Joe's Native Center
Contact: Edward J. Jones **at (716) 206-5142**
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___ 3 Hr. ___ 48 Hr.
___ 6 Hr. ___ 72 Hr.
___ 12 Hr. ___ 4 Day
___ 24 Hr. X 5 Day
7 Day

18165-13-55	Yellow Epoxy Coating on Concrete Floor	28	NE Buffet Room - NE Corner		
18165-13-56	Yellow Epoxy Coating on Concrete Floor	28	Buffet Room by Theater - NE		
18165-13-57	4" Black Cove Base	29	Buffet Area - NE Corner		
18165-13-58	4" Black Cove Base	29	Buffet Area - Behind Bar		
18165-13-59	Mastic Associated with 4" Black Cove Base	30	Buffet Area - NE Corner		
18165-13-60	Mastic Associated with 4" Black Cove Base	30	Buffet Area - Behind Bar		
18165-13-61	Gasket at Water Supply Line	31	Water Main Shut Off Room - NE		
18165-13-62	Gasket at Water Supply Line	31	Water Main Shut Off Room - NE		
18165-13-63	Gasket in Flange - Water Supply Line	32	Water Main Shut Off Room - NE		
18165-13-64	Gasket in Flange - Water Supply Line	32	Water Main Shut Off Room - NE		
18165-13-65	Butt End Sealant on Water Shut Off Valve	33	Water Main Shut Off Room		
18165-13-66	Butt End Sealant on Water Shut Off Valve	33	Water Main Shut Off Room - NE		
18165-13-67	Drywall	34	Buffet Area - Electrical Room Wall		
18165-13-68	Drywall	34	Buffet Area - East Wall		
18165-13-69	Joint Compound	35	Buffet Area - Electrical Room Wall		
18165-13-70	Joint Compound	35	Buffet Area - East Wall		
18165-13-71	Paper Tape Beneath Joint Compound	36	Buffet Area - Electrical Room Wall		
18165-13-72	Paper Tape Beneath Joint Compound	36	Buffet Area - East Wall		
18165-13-73	Panel Adhesive on Drywall	37	Buffet Area, South Corridor - West Wall		
18165-13-74	Panel Adhesive on Drywall	37	Buffet Area, South Corridor - West Wall		

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Sampled By: Edward J. Jones **Date:** 10/04/18 **Received By:** _____ **Date:** _____
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WATTS ARCHITECTURE & ENGINEERING 118101276 **Page:** 5 **of** 7

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

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18165-13-75	2' x 2' Hard Ceiling Tile	38	Theater - Above Stage		
18165-13-76	2' x 2' Hard Ceiling Tile	38	Theater - East Arch		
18165-13-77	Drywall	39	Theater, Stage Area - East Wall		
18165-13-78	Drywall	39	Theater, NE Area - East Wall		
18165-13-79	Joint Compound	40	Theater, Stage Area - East Wall		
18165-13-80	Joint Compound	40	Theater, NE Area - East Wall		
18165-13-81	Carpet Adhesive on Concrete	41	Theater, South Stage - SE Area		
18165-13-82	Carpet Adhesive on Concrete	41	Theater, South Stage - SW Area		
18165-13-83	Gray Flange Sealant	42	2nd Floor - NE Vertical Duct on NE HVAC Duct on Floor		
18165-13-84	Gray Flange Sealant	42	2nd Floor - NW Vertical Duct on Bare Sheet Metal Duct		
18165-13-85	Store Front Style Window Glazing Compoundd	43	2nd Floor - West Wall, Center Window		
18165-13-86	Store Front Style Window Glazing Compoundd	43	2nd Floor - South Center Window		
18165-13-87	Joint Compound	44	2nd Floor - West Wall (Damaged Area) by Window		
18165-13-88	Joint Compound	44	2nd Floor - South Wall at Window Well		
18165-13-89	Paper Tape Beneath Joint Compoud	45	2nd Floor - South Wall, Center Window		
18165-13-90	Paper Tape Beneath Joint Compoud	45	2nd Floor - West Wall, Below Window		
18165-13-91	Drywall	46	2nd Floor - West Wall (Damaged Area) by Window		
18165-13-92	Drywall	46	2nd Floor - South Wall, Center		
18165-13-93	Roof Tar Sealant Beneath Metal Foil on Metal Deck	47	Roof - North-South Wing, Center, West of Hatch		
18165-13-94	Roof Tar Sealant Beneath Metal Foil on Metal Deck	47	Roof - East-West Wing, Center Roof		

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ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

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18165-13-95	Black Tar at Base of Round Vent Support Base	48	Roof - North-South Wing, East Center Vent		
18165-13-96	Black Tar at Base of Round Vent Support Base	48	Roof - NE Corner		
18165-13-97	Brown Tar Patch on Screw Heads of Roof Peak	49	Roof - North-SouthWing, South Portion		
18165-13-98	Brown Tar Patch on Screw Heads of Roof Peak	49	Roof - South end of North-South Roof		
18165-13-99	Gray-Black Tar Patch on Base of Copper Vent on Metal Roof	50	Roof - South Portion of North-South Rear Part		
18165-13-100	Gray-Black Tar Patch on Base of Copper Vent on Metal Roof	50	Roof - Near Peak of South ene		
18165-13-101	Tar and Rubber Patch - 12" x 12"	51	Roof - West Side of Far South Roof		
18165-13-102	Tar and Rubber Patch - 12" x 12"	51	Roof - Northern Most Patch on South End		
18165-13-103	Gray-Black Tar on Flashing	52	Roof - East End of SW Roof - NE Corner		
18165-13-104	Gray-Black Tar on Flashing	52	Roof - East End of SW Roof - NE Corner		
18165-13-105	Tar on Metal Parapet Cap	53	Roof - North-South Wing, South end		
18165-13-106	Tar on Metal Parapet Cap	53	Roof - North-South Wing at Peak		
18165-13-107	Black Caulk on Screw Heads	54	Roof - SW Roof, SW Corner		
18165-13-108	Black Caulk on Screw Heads	54	Roof - SW Roof, SE Corner		
18165-13-109	Tar and Rubber Patch	55	Roof - Far West Parapet on SW Roof		
18165-13-110	Tar and Rubber Patch	55	Roof - Far West Parapet on SW Roof		
18165-13-111	Gray-Black Tar at the Base of AHU	56	Roof - SW Metal Roof		
18165-13-112	Gray-Black Tar at the Base of AHU	56	Roof - SW Roof, NE Corner		

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118101276 Page: 7 of 7

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18165-13-113	Black Tar on Concrete Parapet - 2" Seam	57	Roof - North-South Wing, West Parapet		
18165-13-114	Black Tar on Concrete Parapet - 2" Seam	57	Roof - NW Corner at Bent to East Roof		
18165-13-115	Window Frame Caulk	58	Exterior - North Wall, Center Window		
18165-13-116	Window Frame Caulk	58	Exterior - West Side, Center - North		
18165-13-117	Stucco	59	Exterior - West Side, Center - North		
18165-13-118	Stucco	59	Exterior - West Side, Center - South		
18165-13-119	Stucco	59	Exterior - West Side, Center - North		
18165-13-120	Stucco	59	Exterior - West Side, Far SW at Coffee Shop		
18165-13-121	Stucco	59	Exterior - SW Corner of Coffee Shop at Sout Wall Corner		
18165-13-122	Door Frame Caulk	60	Exterior - North Door Center		
18165-13-123	Door Frame Caulk	60	Exterior - North Side, Center		
18165-13-124	Spray-On Fireproofing	61	NW Lobby - on Beam Near Ceiling, Above Ceiling Tiles		
18165-13-125	Spray-On Fireproofing	61	2nd Floor - Column, Center, West		
18165-13-126	Spray-On Fireproofing	61	2nd Floor - Column, Center, East		
18165-13-127	Spray-On Fireproofing	61	2nd Floor - Beam at Ceiling, East Wall		
18165-13-128	Spray-On Fireproofing	61	1st Floor - Valve Room Behind Kitchen, NE		
18165-13-129	Spray-On Fireproofing	61	Theater - on Beams Above Suspended Ceiling Tiles		
18165-13-130	Spray-on Fireproofing	61	1st Floor - SE Miniature Golf, on Column		

Sampled By: Edward J Jones **Date:** 10/04/18 **Received By:** _____ **Date:** _____

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OCT 08 2018

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Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.

Client Name: Watts Architecture & Engineers

Table I
Summary of Bulk Asbestos Analysis Results

18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	18165-13-131	62	0.088	41.2	51.3	7.4	NAD	Anthophyllite Trace
Location:	Soft Black Window Glazing Compound Pane In Fire Door, Down In Frame; Southeast Corridor Double Fire Doors To Southeast Coffee Shop And Tee Shirt Sales Store							
02	18165-13-132	62	0.078	40.0	55.0	4.9	NAD	Anthophyllite Trace
Location:	Soft Black Window Glazing Compound Pane In Fire Door, Down In Frame; West Center Double Fire Doors On West Center Wall Of Indoor Miniature Golf Room 5"x							
03	18165-13-133	63	0.234	20.3	62.9	16.8	NAD	NAD
Location:	12"x12" Yellow Floor Tiles On Concrete; South Coffee Grinding And Storage Room By South Entrance							
04	18165-13-134	63	0.227	19.4	65.5	15.2	NAD	NAD
Location:	12"x12" Yellow Floor Tiles On Concrete; Southeast Indoor Miniature Golf Room By South Entrance							
05	18165-13-135	64	0.088	50.3	43.1	6.6	NAD	NAD
Location:	Black Mastic Associated With 12"x12" Yellow Floor Tiles; South Coffee Grinding And Storage Room By South Entrance							
06	18165-13-136	64	0.111	31.6	54.6	13.7	NAD	NAD
Location:	Black Mastic Associated With 12"x12" Yellow Floor Tiles; Southeast Indoor Miniature Golf Room By South Entrance							
07	18165-13-137	65	----	----	----	----	NAD	NA
Location:	Paper And Foil On Fiberglass Insulation On Pipe; Water Main Shut Off Pipe, Water Shut Off Room Northeast Corner Of Bldg							
08	18165-13-138	65	----	----	----	----	NAD	NA
Location:	Paper And Foil On Fiberglass Insulation On Pipe; Pipe Above Hot Water Tank In Janitor Storage Room Across From Northwest Toilet							
09	18165-13-139	66	0.212	22.3	65.9	11.9	NAD	NAD
Location:	Gray Roof Caulk, Beneath Metal Cap East Roof Edge Southwest Wing; Roof Southwest Wing, Beneath Metal Cap On East Roof Edge, Northeast Corner							
10	18165-13-140	66	0.164	31.4	34.5	34.1	NAD	NAD
Location:	Gray Roof Caulk, Beneath Metal Cap East Roof Edge Southwest Wing; Roof Southwest Wing, Beneath Metal Cap On East Roof Edge, Southeast Corner							

See Reporting notes on last page

Client Name: Watts Architecture & Engineers

Table I
Summary of Bulk Asbestos Analysis Results

18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM

TEM Analyzed By: Jean L. Mayes _____ Date Analyzed: 10/15/2018 Reviewed By: _____ Date Reviewed: 10/15/2018

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%;
PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984);
TEM prep by EPA 600/R-93/116 Section 2.3 (analysis by Section 2.5, not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984);

** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Watts Architecture & Engineers
Attn: Edward Jones
95 Perry Street
Suite 300
Buffalo, NY 14203

Date Received 10/11/18 **AmeriSci Job #** 118101401
Date Examined 10/15/18 **P.O. #**
ELAP # 10984 **Page** 1 **of** 3
RE: 18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-131 62	118101401-01 **Location:** Soft Black Window Glazing Compound Pane In Fire Door, Down In Frame; Southeast Corridor Double Fire Doors To Southeast Coffee Shop And Tee Shirt Sales Store	***No***	NAD (by NYS ELAP 198.6) by William M. Dunstan on 10/15/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 7.5 % **Comment:** Heat Sensitive (organic): 41.2%; Acid Soluble (inorganic): 51.3%; Inert (Non-asbestos): 7.5%			
18165-13-132 62	118101401-02 **Location:** Soft Black Window Glazing Compound Pane In Fire Door, Down In Frame; West Center Double Fire Doors On West Center Wall Of Indoor Miniature Golf Room 5"x	***No***	NAD (by NYS ELAP 198.6) by William M. Dunstan on 10/15/18
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 5 % **Comment:** Heat Sensitive (organic): 40.0%; Acid Soluble (inorganic): 55.0%; Inert (Non-asbestos): 5.0%			
18165-13-133 63	118101401-03 **Location:** 12"x12" Yellow Floor Tiles On Concrete; South Coffee Grinding And Storage Room By South Entrance	***No***	NAD (by NYS ELAP 198.6) by William M. Dunstan on 10/15/18
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 16.8 % **Comment:** Heat Sensitive (organic): 20.3%; Acid Soluble (inorganic): 62.9%; Inert (Non-asbestos): 16.8%			
18165-13-134 63	118101401-04 **Location:** 12"x12" Yellow Floor Tiles On Concrete; Southeast Indoor Miniature Golf Room By South Entrance	***No***	NAD (by NYS ELAP 198.6) by William M. Dunstan on 10/15/18
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 15.2 % **Comment:** Heat Sensitive (organic): 19.4%; Acid Soluble (inorganic): 65.5%; Inert (Non-asbestos): 15.2%			

See Reporting notes on last page

PLM Bulk Asbestos Report

18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-135 64	118101401-05 **Location:** Black Mastic Associated With 12"x12" Yellow Floor Tiles; South Coffee Grinding And Storage Room By South Entrance	***No***	NAD (by NYS ELAP 198.6) by William M. Dunstan on 10/15/18
	Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 6.6 % **Comment:** Heat Sensitive (organic): 50.3%; Acid Soluble (inorganic): 43.1%; Inert (Non-asbestos): 6.6%		
18165-13-136 64	118101401-06 **Location:** Black Mastic Associated With 12"x12" Yellow Floor Tiles; Southeast Indoor Miniature Golf Room By South Entrance	***No***	NAD (by NYS ELAP 198.6) by William M. Dunstan on 10/15/18
	Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 13.7 % **Comment:** Heat Sensitive (organic): 31.6%; Acid Soluble (inorganic): 54.6%; Inert (Non-asbestos): 13.7%		
18165-13-137 65	118101401-07 **Location:** Paper And Foil On Fiberglass Insulation On Pipe; Water Main Shut Off Pipe, Water Shut Off Room Northeast Corner Of Bldg	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 10/15/18
	Analyst Description: White/Silver, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 40 %, Fibrous glass 10 %, Non-fibrous 50 %		
18165-13-138 65	118101401-08 **Location:** Paper And Foil On Fiberglass Insulation On Pipe; Pipe Above Hot Water Tank In Janitor Storage Room Across From Northwest Toilets	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 10/15/18
	Analyst Description: White/Silver, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 40 %, Fibrous glass 10 %, Non-fibrous 50 %		
18165-13-139 66	118101401-09 **Location:** Gray Roof Caulk, Beneath Metal Cap East Roof Edge Southwest Wing; Roof Southwest Wing, Beneath Metal Cap On East Roof Edge, Northeast Corner	***No***	NAD (by NYS ELAP 198.6) by William M. Dunstan on 10/15/18
	Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.9 % **Comment:** Heat Sensitive (organic): 22.3%; Acid Soluble (inorganic): 65.9%; Inert (Non-asbestos): 11.9%		

See Reporting notes on last page

PLM Bulk Asbestos Report

18165; Niagara Falls Due Diligence Reports - Downtown Properties; 333 1st St/217 Old Falls St Smokin' Joe's Native Center

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18165-13-140	118101401-10	***No***	NAD
66	**Location:** Gray Roof Caulk, Beneath Metal Cap East Roof Edge Southwest Wing; Roof Southwest Wing, Beneath Metal Cap On East Roof Edge, Southeast Corner		(by NYS ELAP 198.6) by William M. Dunstan on 10/15/18

Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 34.1 %
Comment: Heat Sensitive (organic): 31.4%; Acid Soluble (inorganic): 34.5%; Inert (Non-asbestos): 34.1%

Reporting Notes:

Analyzed by: William M. Dunstan Wm M Dunstan Date: 10/15/2018 Reviewed by: Wm M Dunstan

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

WATTS ARCHITECTURE & ENGINEERING
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY 118101401

Page: 1 of 1

Client: USA Niagara Development Corporation
Date: Weds 10/10/2018
Project: Niagara Falls Due Diligence Reports - Downtown Properties
Watts Project No.: 18165
Building / Location: 333 1st St./217 Old Falls St. Smokin' Joe's Native Center
Contact: Edward J. Jones at (716) 206-5142
Preliminary Results to: ejones@watts-ae.com
Mail Report & Invoice to: Watts Architecture & Engineering
95 Perry Street, Buffalo, NY 14203

Analysis Requested:
198.1 x 198.6 x 198.4 x

Turnaround Requested:
3 Hr. ____ 48 Hr. ____
6 Hr. ____ 72 Hr. ____
12 Hr. ____ 4 Day ____
24 Hr. ____ X 5 Day
7 Day

Sample Number	Material Description	HA	Sample Location	Laboratory Results PLM	TEM
18165-13-131	Soft black window glazing compound pane in fire door, down in frame	62	Southeast corridor double fire doors to southeast coffee shop and Tee shirt sales store		
18165-13-132	Soft black window glazing compound pane in fire door, down in frame	62	West center double fire doors on west center wall of indoor miniature golf room 5" x		
18165-13-133	12" x 12" yellow floor tiles on concrete	63	South coffee grinding and storage room by south entrance		
18165-13-134	12" x 12" yellow floor tiles on concrete	63	Southeast indoor miniature golf room by south entrance		
18165-13-135	Black mastic associated with 12" x 12" yellow floor tiles	64	South coffee grinding and storage room by south entrance		
18165-13-136	Black mastic associated with 12" x 12" yellow floor tiles	64	Southeast indoor miniature golf room by south entrance		
18165-13-137	Paper and foil on fiberglass insulation on pipe	65	Water main shut off pipe, water shut off room northeast corner of bldg.		
18165-13-138	Paper and foil on fiberglass insulation on pipe	65	Pipe above hot water tank in janitor storage room across from northwest toilets		
18165-13-139	Gray roof caulk, beneath metal cap east roof edge southwest wing	66	Roof southwest wing, beneath metal cap on east roof edge, northeast corner		
18165-13-140	Gray roof caulk, beneath metal cap east roof edge southwest wing	66	Roof southwest wing, beneath metal cap on east roof edge, southeast corner		

Sampled By: Edward J Jones **Date:** 10/10/18 **Received By:** ____ **Date:** ____
Relinquished By: Edward J Jones **Date:** 10/10/18 16:30 **Received By:** ____ **Date:** ____

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis on that sample and contact the Watts Project Manager for further instructions.

RECEIVED
OCT 11 2018
BY KNM

3.0 – LABORATORY ACCREDITATIONS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2019
Issued April 01, 2018

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

DR. THOMAS R. MCKEE
AMERISCI RICHMOND
13635 GENITO RD
MIDLOTHIAN, VA 23112

NY Lab Id No: 10984

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	Item 198.1 of Manual
	EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual
Asbestos-Vermiculite-Containing Material	Item 198.8 of Manual

Serial No.: 57653

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101904-0

AmeriSci Richmond

Midlothian, VA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2018-07-01 through 2019-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AmeriSci Richmond
dba AmeriSci Richmond
13635 Genito Road
Midlothian, VA 23112
Mr. Thomas B. Keith
Phone: 804-763-1200 Fax: 804-763-1800
Email: bkeith@amerisci.com
http://www.amerisci.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 101904-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

Effective 2018-07-01 through 2019-06-30

4.0 – CONSULTANT'S LICENSES AND CERTIFICATIONS

WATTS ARCHITECTURE & ENGINEERING

120 E. Washington St., Suite 414
Syracuse, NY 13202

95 Perry Street, Suite 300
Buffalo, NY 14203

315 5th Ave, 11th Floor
New York, NY 10016

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C.
Suite 300
95 Perry Street

Buffalo, NY 14203

FILE NUMBER: 12-68007
LICENSE NUMBER: 68007
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 09/20/2018
EXPIRATION DATE: 09/30/2019

Duly Authorized Representative – Edward Watts:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

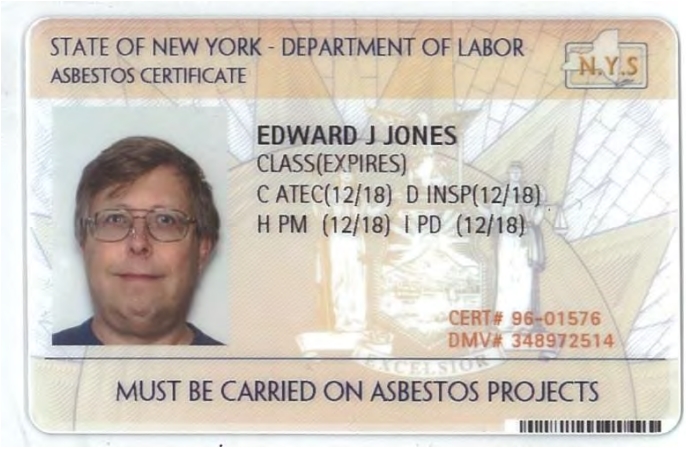
Eileen M. Franko, Director
For the Commissioner of Labor

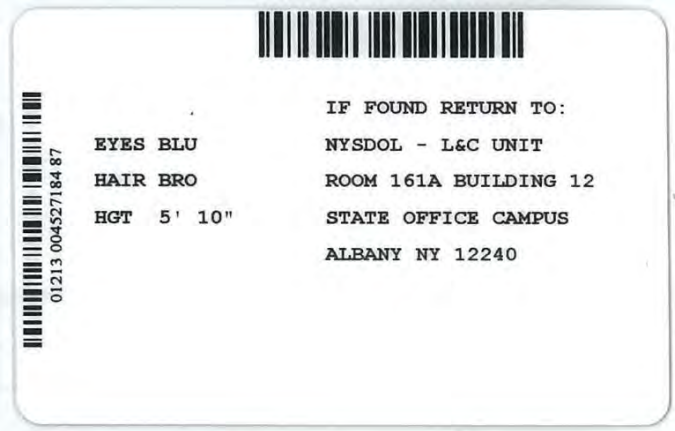
SH 432 (8/12)

120 E. Washington St., Suite 414
Syracuse, NY 13202

95 Perry Street, Suite 300
Buffalo, NY 14203

315 5th Ave, 11th Floor
New York, NY 10016





Edward Jones

C – Air Sampling Technician
D – Inspector
H – Project Monitor
I – Project Designer

Appendix D

DRILLING SUMMARY

Geologist: Tim Burmier

Contractor: Atlantic Testing Laboratories

Operator: Steve Wolcawicz & Alex Delude

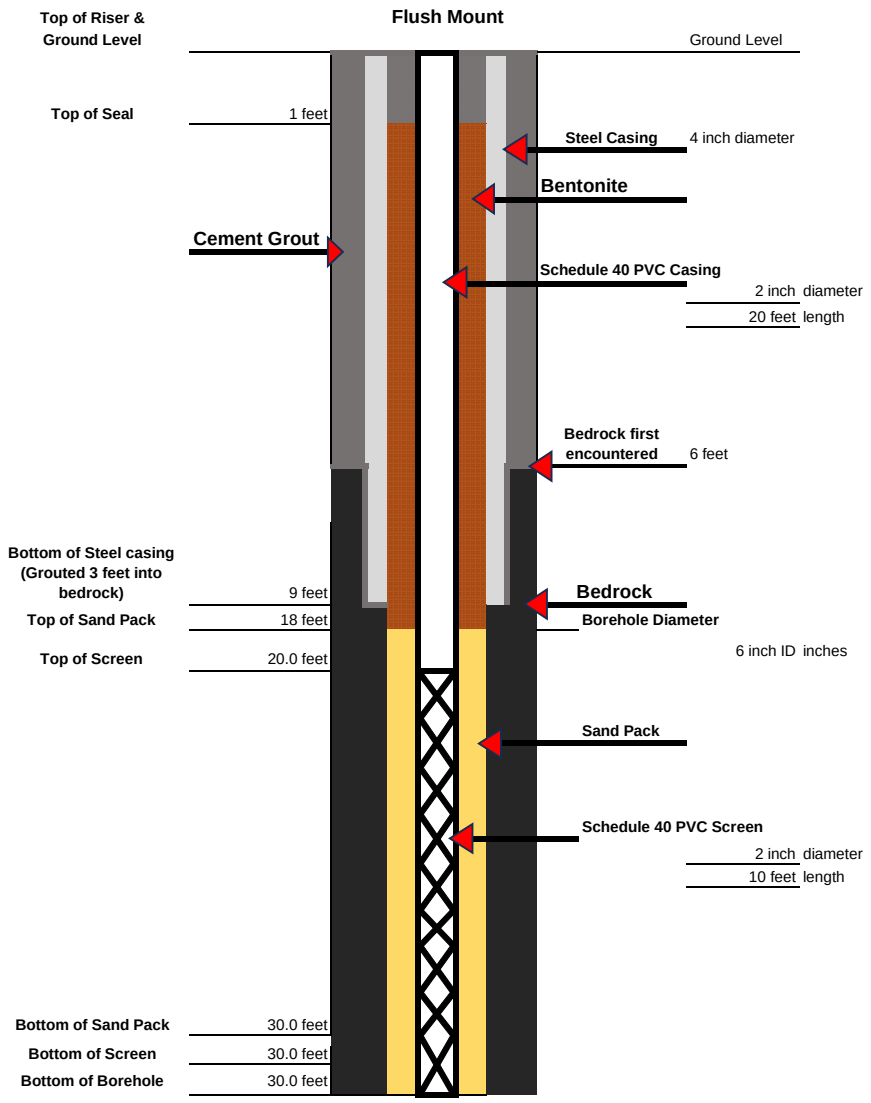
Model: Tire Mounted Drill Rig

Start Date: 10/17/2024

Steel Casing: 10/17/2024

Bedrock Advancement: 10/23/2024

WELL DESIGN



CASING MATERIAL

0-9' bgs: 4" Steel casing (Flush Mount and Cover)

Monitor: 2" Schedule 40 PVC

SCREEN MATERIAL

Type: 2" Schedule 40 PVC

Slot Size: 0.010"

Setting: 20' - 30' bgs

FILTER MATERIAL

Type: Sand Pack #0

Setting: 18-30'

SEAL MATERIAL

Type 1: Bentonite

Setting: 1-18'

Type 1: Grout

Setting: 0-1'

COMMENTS:

Truck mounted drill rig augered through fill material approximately 2 feet into bedrock (12' bgs)
Steel casing grouted two feet into bedrock and allowed to set prior to air hammer operations

Air hammer attachment used down to 30' bgs

Poor recovery was observed in split spoon cores collected from 0-10' bgs due to obstructions such as rock, concrete, crushed stone, and brick.

Red arrowhead designates a line identifying a type of material or items.

LEGEND

- Cement Grout
- Bentonite Seal
- Sand Pack
- Bedrock
- Steel Casing
- PVC Screen
- PVC Riser Pipe

Client: Edgemere Development

Location: The Nest

Project No.: C932183

BE3 BRYDGES ENGINEERING

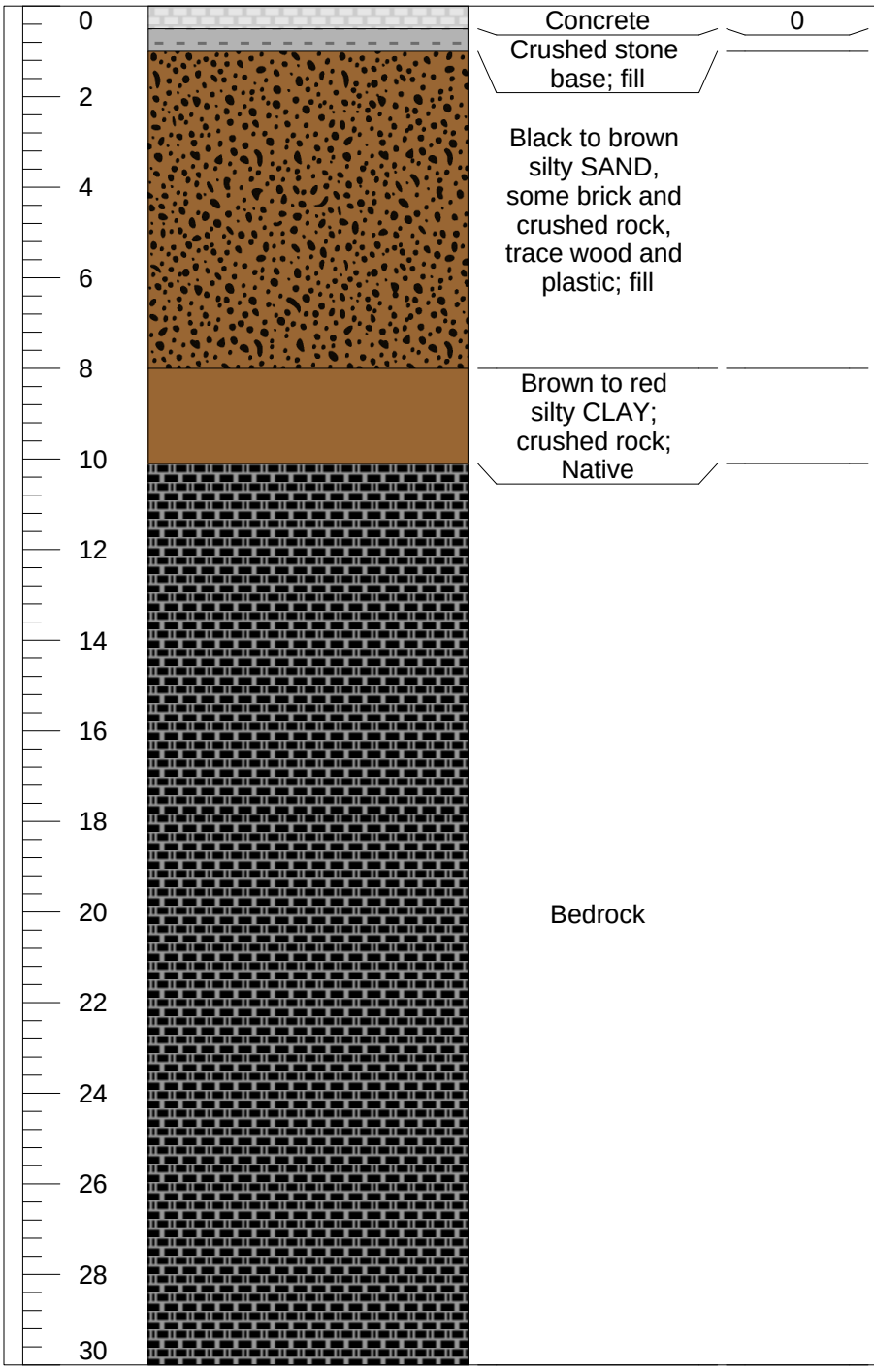
MONITORING WELL CONSTRUCTION DETAILS

Well Number: RI MW-1

Remedial Investigation Geologic Log

Bore Hole ID: RI MW-1
Drilling Company: Atlantic Testing Laboratories
Drill Type: Tire Mounted Drill Rig

Geologist: Tim Burmier
Location: Niagara Falls, NY
Drill Date: 10/27/2024
Drill Time: 9:30
Sample Depth: 2-4' bgs



Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

DRILLING SUMMARY

Geologist: Tim Burmier

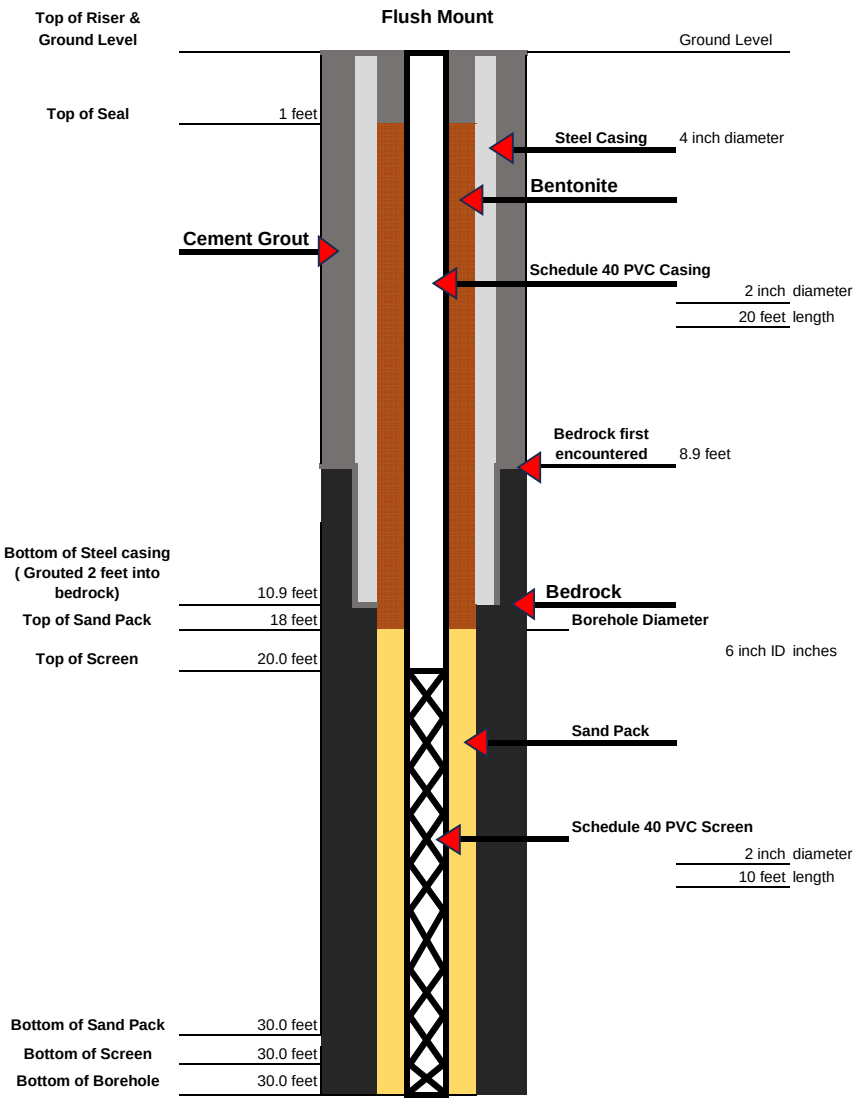
Contractor: Atlantic Testing Laboratories

Operator: Steve Wolcawicz & Alex Delude

Model: Tire Mounted Drill Rig

Start Date: 10/21/2024
Steel Casing: 10/21/2024
Bedrock Advancement: 10/25/2024

WELL DESIGN



CASING MATERIAL

0-10.9' bgs: 4" Steel casing (Flush Mount and Cover)

Monitor: 2" Schedule 40 PVC

SCREEN MATERIAL

Type: 2" Schedule 40 PVC

Slot Size: 0.010"

Setting: 20' - 30' bgs

FILTER MATERIAL

Type: Sand Pack #0
Setting: 18-30'

SEAL MATERIAL

Type 1: Bentonite
Setting: 1-18'

Type 1: Grout
Setting: 0-1'

COMMENTS:

Truck mounted drill rig augured through fill material approximately 2 feet into bedrock (10.9' bgs)

Steel casing grouted two feet into bedrock and allowed to set prior to air hammer operations

Air hammer attachment used down to 30' bgs

Poor recovery was observed in split spoon cores collected from 0-10' bgs, especially beyond 7' bgs, due obstructions such as rock, concrete, crushed stone, and brick.

Red arrowhead designates a line identifying a type of material or items.

LEGEND

- Cement Grout
- Bentonite Seal
- Sand Pack
- Bedrock
- Steel Casing
- PVC Screen
- PVC Riser Pipe

Client: Edgemere Development

Location: The Nest

Project No.: C932183

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, LLC

MONITORING WELL CONSTRUCTION DETAILS

Well Number: RI MW-2

Remedial Investigation Geologic Log

Bore Hole ID: RI MW-2
Drilling Company: Atlantic Testing Laboratories
Drill Type: Tire Mounted Drill Rig

Geologist: Tim Burmier
Location: Niagara Falls, NY
Drill Date: 10/21/2024
Drill Time: 8:00
Sample Depth: 1-3' bgs

Depth (Ft)	Lithology	Description	PID
0		Concrete	
		Crushed stone base; fill	
2			
4		Grey to brown silty SAND, some crushed brick and rock; fill;	
6			
8			
10			
12			
14			
16			
18			
20		Bedrock	
22			
24			
26			
28			
30			

<u>Project:</u> The Nest Site No. C932183

<u>Client:</u> Edgemere Development

<u>Address</u>: 333 1st Street, Niagara Falls, New York

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC

DRILLING SUMMARY

Geologist: Tim Burmier

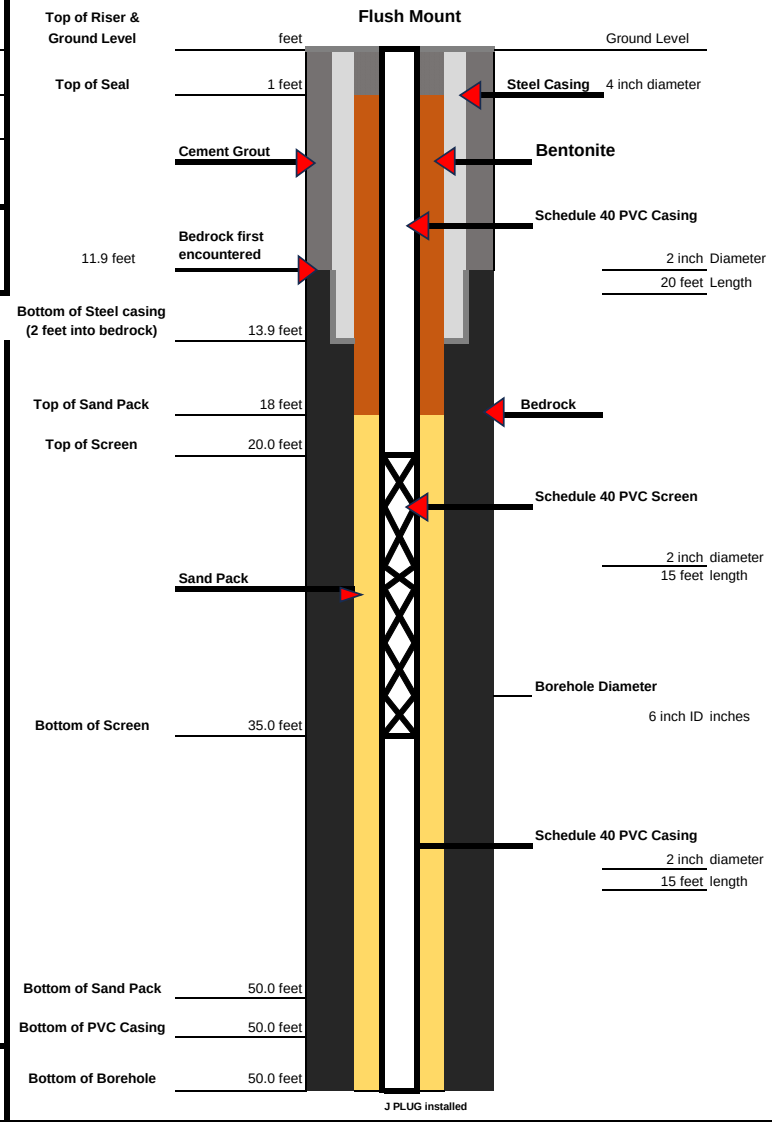
Contractor: Atlantic Testing Laboratories

Operator: Steve Wolcawicz & Alex Delude

Model: Tire Mounted Drill Rig

Start Date: 10/15/2024
Steel Casing: 10/17/2024
Bedrock Advancement: 10/21/2024

WELL DESIGN



CASING MATERIAL

0-13.9' bgs: 4" Steel casing (Flush Mount and Cover)

Monitor: 2" Schedule 40 PVC

SCREEN MATERIAL

Type: 2" Schedule 40 PVC

Slot Size: 0.010"

Setting: 20' - 35' bgs

FILTER MATERIAL

Type: Sand Pack #0
Setting: 18-50'

SEAL MATERIAL

Type 1: Bentonite
Setting: 1-18'

Type 1: Grout
Setting: 0-1'

COMMENTS:

Truck mounted drill rig augured through fill material approximately 2 feet into bedrock (13.9' bgs)
Steel casing grouted two feet into bedrock and allowed to set prior to coring operations
Rotary rig with core barrel used to 50'
Core logs created to note fractures in bedrock and potential water bearing zones
Water level found to be at around 25 feet
15 feet of PVC rise pipe with j-plug seal installed from 50 to 35 feet to allow screen placement from 35'
to 20' and focus sample area. PVC riser then extended to the top.

Red arrowhead designates a line identifying a type of material or items.

LEGEND

- Cement Grout
- Bentonite Seal
- Sand Pack
- Bedrock
- Steel Casing
- PVC Screen
- PVC Riser Pipe

Client: Edgemere Development

Location: The Nest

Project No.: C932183

BE3 BRYDGES ENGINEERING

MONITORING WELL CONSTRUCTION DETAILS

Well Number: RI MW-3

Remedial Investigation Geologic Log

Bore Hole ID: RI MW-3
Drilling Company: Atlantic Testing Laboratories
Drill Type: Tire Mounted Drill Rig

Geologist: Tim Burmier
Location: Niagara Falls, NY
Drill Date: 10/15/2024
Drill Time: 12:00
Sample Depth: 2-4' bgs

Depth (Ft)	Lithology	Description	PID
0		Concrete	
		Crushed stone base; fill	
2		Grey to brown silty SAND, some crushed brick and rock; fill;	
4			
6		Brown to red to black silty CLAY, crushed gray rock; trace brick; fill; refusal at 7.2 feet	
8			
10			
12			
14			
16			
18			
20		Bedrock	
22			
24			
26			
28			
30			

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC

MW-3 Bedrock Coring log

Run	Depth	fracture	Rock Quality Designation (RQD)	Lithology
1	14-16.5	numerous	20%	finely crystalline, medium gray brown Lockport Group dolostone, hard, numerous fractures, 6'' vuggy zone.
	17			
	17.1			
	17.6			
	17.9-19.0	mechanical breaks		
2	19.5		62%	
	19.8			
	20.7			
	21.2			
	21.9			
	22.5			
	24			
3	24.7		0%	as above with horizontal hackly fractures, core block
	25			
	25.5			
4	26		92%	as above with trace gypsum patches, trace vugs, calcite, and thin shaly partings, medium gray brown with one 2.5 ' long piece of core. Horizontal fractures
	26.7			
	27			
	27.5			
	28.5			
	30.5			
5	30.8		64%	as above some 1'' brown banding. Measured water level at 19.0 feet below grade, dropping to 19.7 feet
	31.1			
	31.54			
	33.2			
	33.4			
	34.9			
	35.5			
6	35.6-36.9	numerous fractures	40%	Hard, medium gray brown finely crystalline dolostone becoming dark gray at 39-40.5 feet. Water at 17.3 feet, then 21.5 feet BGS after 45 minutes
	37.5			
	37.9			
	38.2			
	38.8			
	39.4			
	39.8			
	40-41	numerous fractures		
7	42		66%	Hard, medium gray brown finely crystalline dolostone, trace gypsum and calcite patches, horizontal fractures
	45.5			
8	46		40%	as above some thin light gray patches and banding
	49.5			
	50			
	50.5	Total depth		

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

333 1st Street, Niagara Falls, NY

Date: October 22, 23 2024

DRILLING SUMMARY

Geologist: Tim Burmier

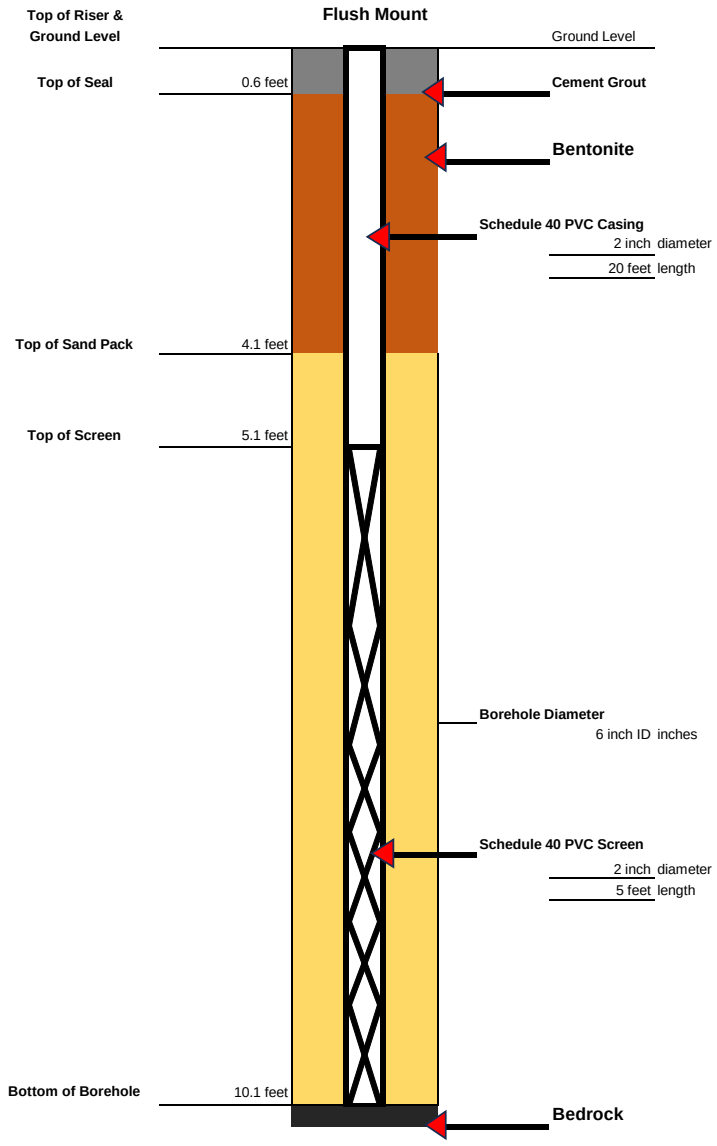
Contractor: Atlantic Testing Laboratories

Operator: Steve Wolcawicz & Alex Delude

Model: Tire Mounted Drill Rig

Date: 10/18/2024

WELL DESIGN



CASING MATERIAL

Surface Flush Mount and Cover

Monitor: 2" Schedule 40 PVC

SCREEN MATERIAL

Type: 2" Schedule 40 PVC

Slot Size: 0.010"

Setting: 5.1' - 10.1' bgs

FILTER MATERIAL

Type: Sand Pack #0
Setting: 4.1-10.1'

SEAL MATERIAL

Type 1: Grout
Setting: 0.6-1'

Type 1: Bentonite
Setting: 0.6-4.1'

COMMENTS:

Truck mounted drill rig augured through fill material to top of bedrock (10.1' bgs)

Well set at top of bedrock, screened in the overburden (no bedrock advancement date or extra date of installed steel casing).

Poor recovery was observed in split spoon cores collected from 0-10' bgs, especially beyond 7' bgs, due obstructions such as rock, concrete, crushed stone, and brick.

Flush mounted curb box installed at surface

Red arrowhead designates a line identifying a type of material or items.

LEGEND

- Cement Grout
- Bentonite Seal
- Sand Pack
- Bedrock
- PVC Riser Pipe
- PVC Screen

Client: Edgemere Development

Location: The Nest

Project No.: C932183

BE3 BRYDGES ENGINEERING

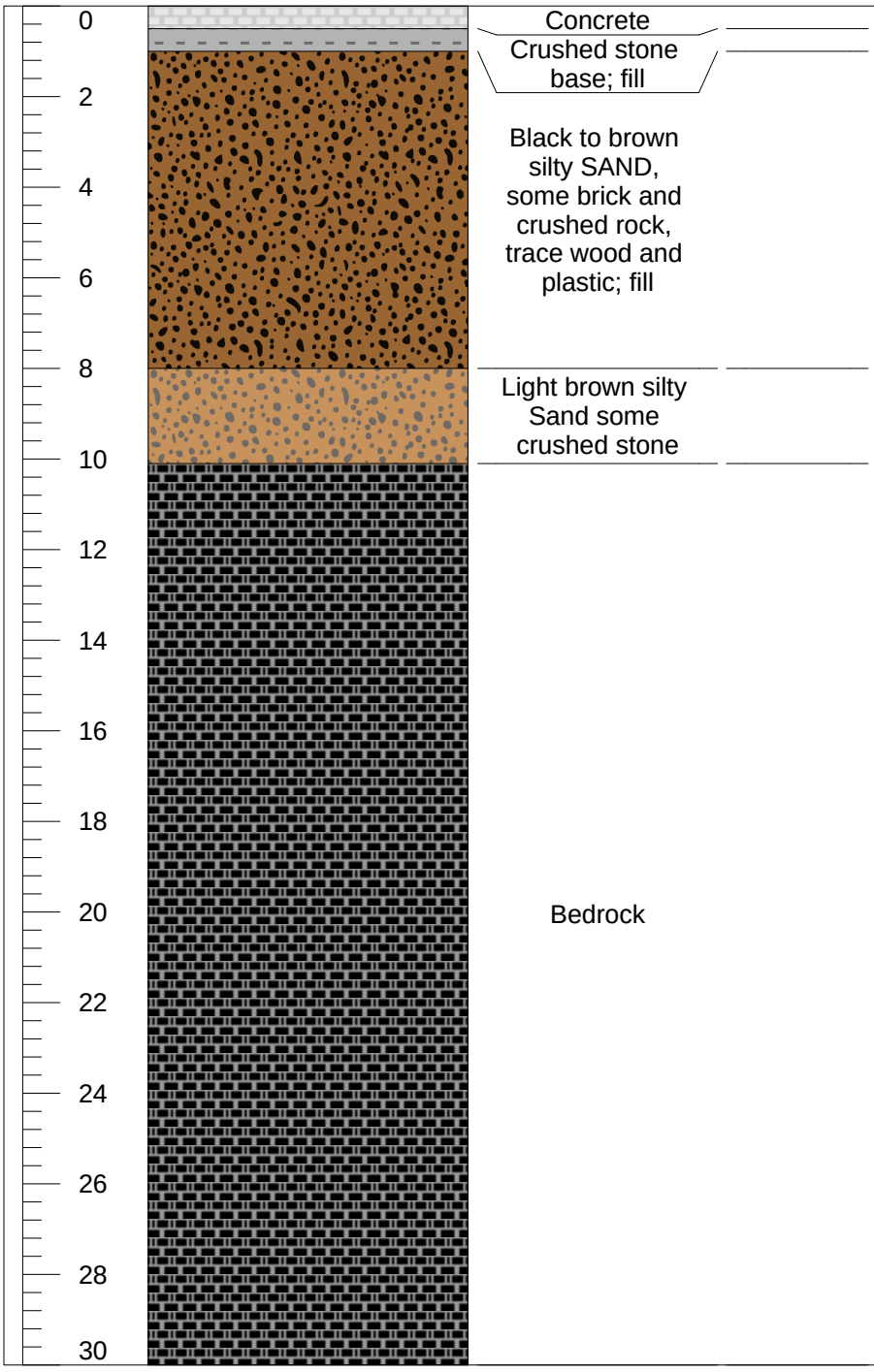
MONITORING WELL CONSTRUCTION DETAILS

Well Number: RI MW-4

Remedial Investigation Geologic Log

Bore Hole ID: RI MW-4
Drilling Company: Atlantic Testing Laboratories
Drill Type: Tire Mounted Drill Rig

Geologist: Tim Burmier
Location: Niagara Falls, NY
Drill Date: 10/18/2024
Drill Time: 8:00
Sample Depth: 1-3' bgs



Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC

WELL DEVELOPMENT LOG

PROJECT TITLE: The Nest WELL NO.: RI MW-1

PROJECT NO.: C932183

STAFF: Jacob Cox

DATE(S): 10/28/2024

DEVELOPMENT METHOD: Surge and purge using a weighted 2" HDPE bailer

			WELL ID.	VOL. (GAL/FT)
1. DEPTH TO WELL BOTTOM (FT. BGS)	=	29.70	1"	0.04
2. WATER LEVEL BELOW TOP OF RISER (FT. BGS)	=	21.30	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	8.40	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GALLONS)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.42	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x_3_)	=	4.38	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	21.0	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	0.5	1.5	4	6.5	9	12	15	18	21		
pH	6.98	6.86	6.9	6.7	6.96	6.85	6.67	6.82	6.79		
TEMPERATURE (°C)	17.17	16.05	16.2	16.12	16.5	16.25	16.1	16.05	16.23		
SPEC. COND. (mS/cm)	2.47	2.35	2.12	2.04	2.0	1.99	2.0	2.0	1.99		
ORP (mV)	154	161	166	170	159	165	162	158	165		
DISSOLVED OXYGEN (mg/l)	14.6	12.8	12.56	15.4	11.58	12.27	12.3	10.15	10.01		
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	571	476	394	287	190		
DEPTH TO WATER (fbgs)	21.3	21.3	21.3	21.3	21.4	21.3	21.3	21.3	21.3		
TIME	12:57	13:04	13:16	13:28	13:57	14:03	14:12	14:18	14:26		

COMMENTS:

Adequate recharge, well was never purged dry.

Accumulated water placed in a 55-gallon drum.

WELL DEVELOPMENT LOG

PROJECT TITLE: The Nest WELL NO.: RI MW-2

PROJECT NO.: C932183

STAFF: Jacob Cox

DATE(S): 10/28/2024

DEVELOPMENT METHOD: Surge and purge using a weighted 2" HDPE bailer

			WELL ID.	VOL. (GAL/FT)
1. DEPTH TO WELL BOTTOM (FT. BGS)	=	30.00	1"	0.04
2. WATER LEVEL BELOW TOP OF RISER (FT. BGS)	=	21.90	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	8.1'	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GALLONS)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.37	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x_3_)	=	4.1	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	12.0	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	3	6	9	12							
pH	6.87	7.09	7.2	7.1							
TEMPERATURE (°C)	165	16.3	15.7	15.8							
SPEC. COND. (mS/cm)	1.6	1.62	2.04	1.87							
ORP (mV)	154	153	148	155							
DISSOLVED OXYGEN (mg/l)	14.7	14.5	9.43	10.26							
TURBIDITY (NTU)	>1000	871	354	298							
DEPTH TO WATER (fbgs)	26.3	25.4	25.3	25.7							
TIME	14:54	15:20	15:35	15:50							

COMMENTS:

Waited approximately 10 minutes for recharge after each run.

Accumulated water placed in a 55-gallon drum.

WELL DEVELOPMENT LOG

PROJECT TITLE: The Nest WELL NO.: RI MW-3

PROJECT NO.: C932183

STAFF: Jacob Cox

DATE(S): 10/28/2024

DEVELOPMENT METHOD: Surge and purge using a weighted 2" HDPE bailer

			WELL ID.	VOL. (GAL/FT)
1. DEPTH TO WELL BOTTOM (FT. BGS)	=	49.70	1"	0.04
2. WATER LEVEL BELOW TOP OF RISER (FT. BGS)	=	23.20	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	26.50	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GALLONS)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	4.50	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x_3_)	=	13.5	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	14.0	8"	2.60

OR

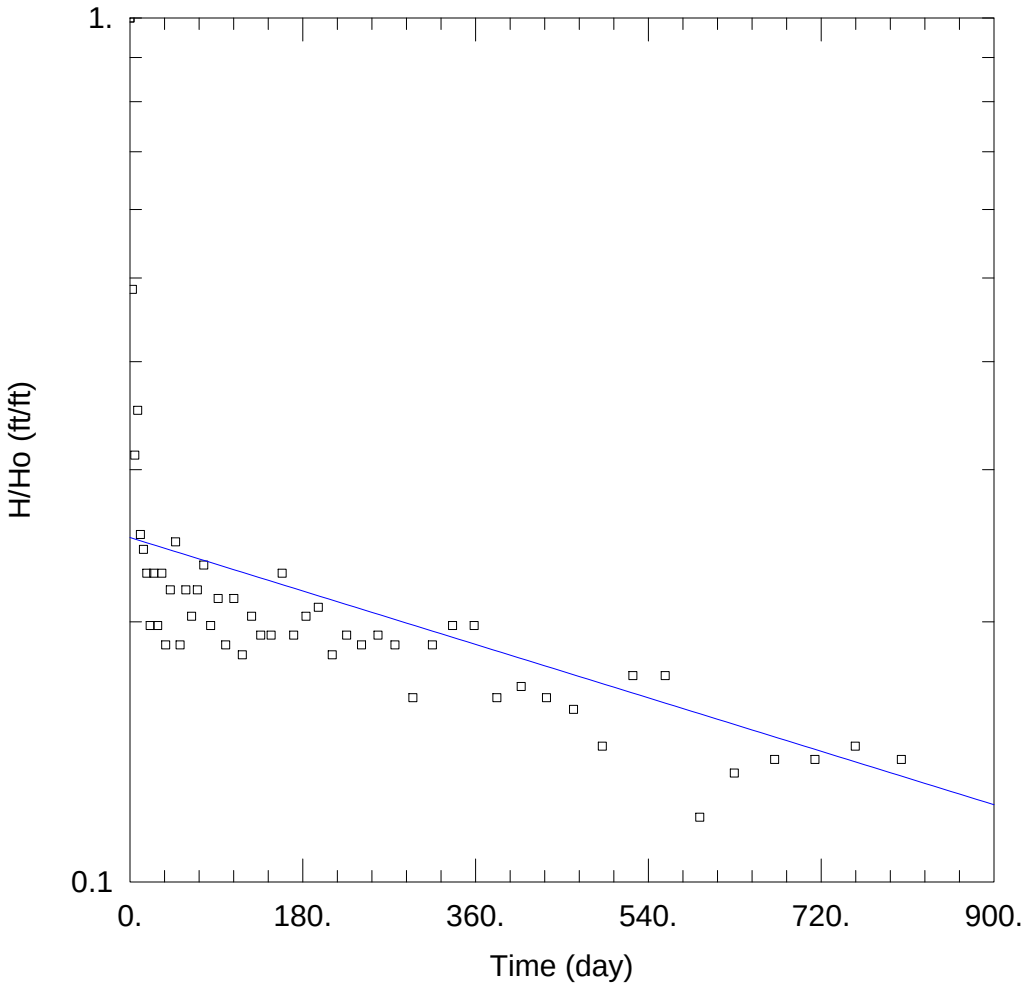
$V=0.0408 \times (\text{CASING DIAMETER})^2$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	0.25	3	6	9	12	14					
pH	4.83	6.16	6.49	6.53	6.64	6.6					
TEMPERATURE (°C)	14.13	14.51	14.86	14.7	14.74	15.0					
SPEC. COND. (mS/cm)	2.11	2.2	2.11	2.23	2.17	2.16					
ORP (mV)	201	150	139	136	134	133					
DISSOLVED OXYGEN (mg/l)	15	123.51	12.93	13.26	13.08	13.4					
TURBIDITY (NTU)	>1000	>1000	180	333	110	95					
DEPTH TO WATER (fbgs)	24	24.3	24.9	26.1	25.9	25.3'					
TIME	10:09	10:20	10:34	10:45	10:55	11:07					

COMMENTS:

Adequate recharge, well was never purged dry.

Accumulated water placed in a 55-gallon drum.



WELL TEST ANALYSIS

Data Set: S:\...\RI MW-1 AQTESOLV.aqt
Date: 12/18/24 Time: 16:12:03

PROJECT INFORMATION

Company: BE3
Client: Edgemere
Test Date: 11/18/2024

AQUIFER DATA

Saturated Thickness: 8.4 ft Anisotropy Ratio (Kz/Kr): 1.

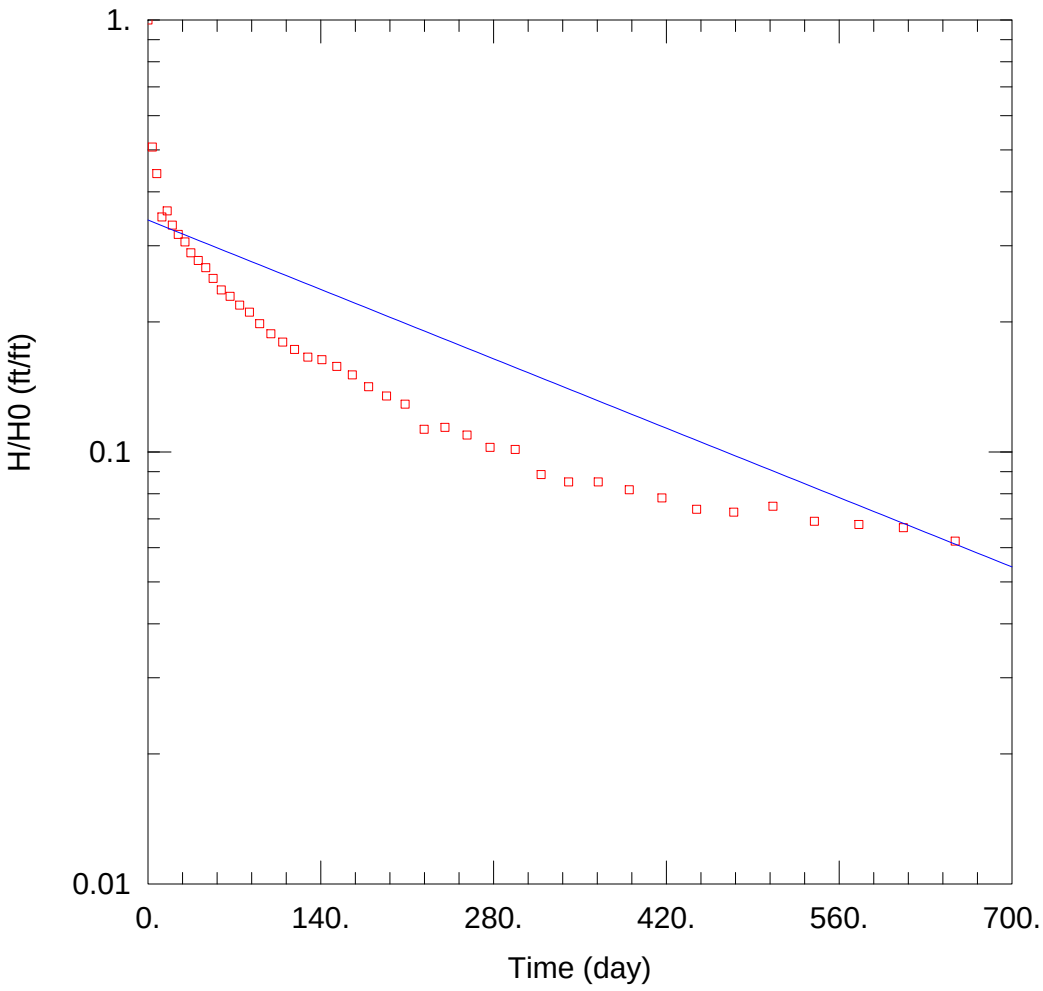
WELL DATA (RI MW-1)

Initial Displacement: 1. ft
Total Well Penetration Depth: 10.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 8.4 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 4.647E-7 ft/day y0 = 0.2504 ft



WELL TEST ANALYSIS

Data Set: S:\...\RI MW-2 AQTESOLV.aqt
Date: 12/18/24 Time: 16:13:05

PROJECT INFORMATION

Company: BE3
Client: Edgemere
Test Date: 11/18/2024

AQUIFER DATA

Saturated Thickness: 8.4 ft Anisotropy Ratio (Kz/Kr): 1.

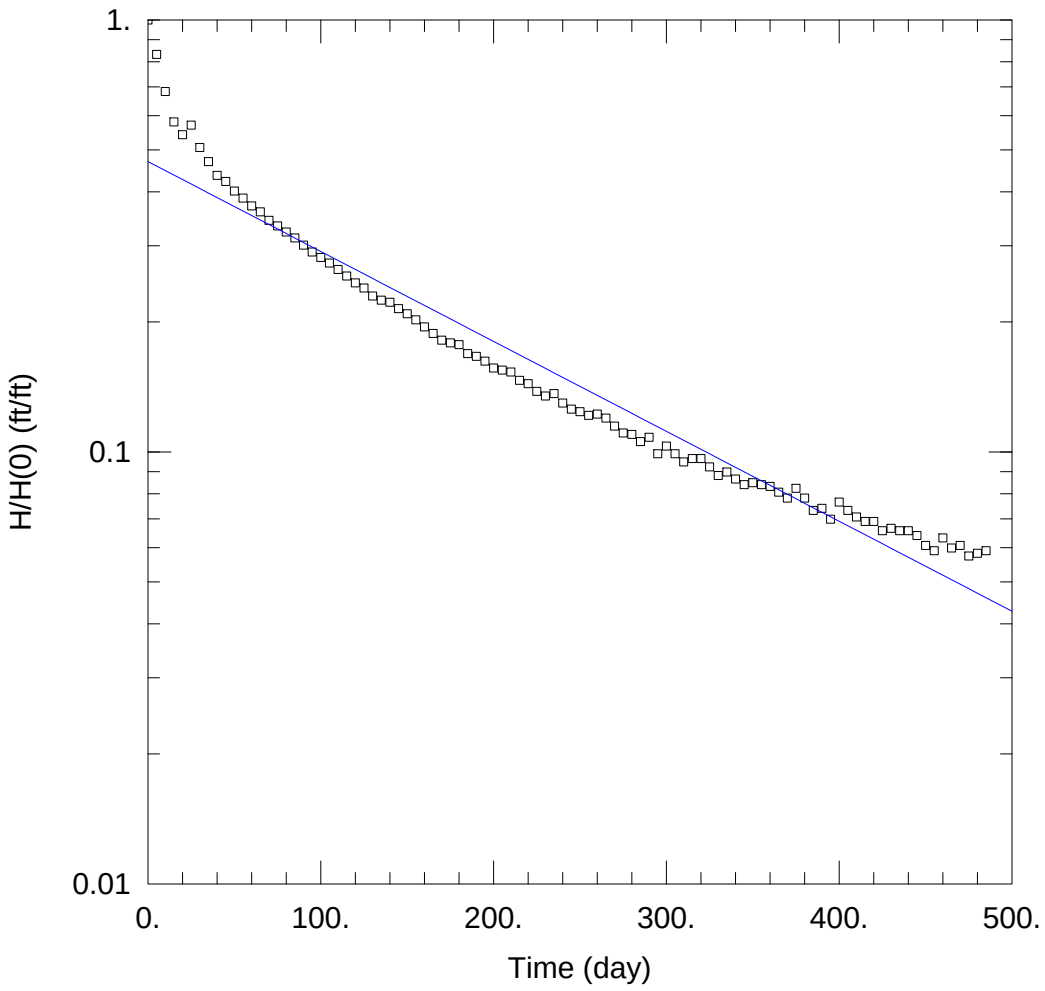
WELL DATA (RI MW-1)

Initial Displacement: 0.932 ft
Total Well Penetration Depth: 11.3 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10. ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.569E-6 ft/day y0 = 0.3207 ft



WELL TEST ANALYSIS

Data Set: S:\...\RI MW-3 AQTESOLV.aqt
Date: 11/19/24 Time: 14:55:09

PROJECT INFORMATION

Company: BE3
Client: Edgemere
Test Date: 11/18/2024

AQUIFER DATA

Saturated Thickness: 26.5 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (RI MW-3)

Initial Displacement: 1.202 ft
Total Well Penetration Depth: 18.5 ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.5 ft
Screen Length: 15. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.618E-6 ft/day y0 = 0.5649 ft

Remedial Investigation Boring Log

Bore Hole ID: RI BH-1
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 10/31/2024
Drill Time: 9:00
Sample Depth: 4-6' bgs
Geoprobe Interval: 24"

Depth (Ft)	Lithology	Description	PID	Recovery
0				
0.4		Concrete	0	
0.8		Crushed stone base; fill	0	
1.2		Black to brown dry silty SAND, nonplastic crushed stone, some brown clay, fill; no sample collected due to little recovery	0	Run 1 13"
1.6				
2				
2.4				
2.8				
3.2		Concrete	0	Run 2 8"
3.6				
4				
4.4				
4.8				
5.2				Run 3 24"
5.6				
6		Black to brown dry silty SAND,nonplastic some brown clay; fill; refusal at 8.7 feet		
6.4			0	
6.8				
7.2				Run 4 24"
7.6				
8				
8.4				

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI BH-2
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 10/28/2024
Drill Time: 9:15
Sample Depth: 2-4' bgs
Geoprobe Interval: 48"

Depth (Ft)	Lithology	Description	PID	Recovery
0		Concrete	0	
0.5		Crushed stone base; fill	0	
1		Brown to black dry sandy SILT, nonplastic and crushed gravel, trace clay; fill	0	Run 1 18"
4		Gray crushed stone, some dry brown and black sandy SILT; fill	0	Run 2 12"
8		Brown to black loose moist sandy SILT and CLAY plastic, some crushed rock; fill	0	Run 3 25"
9.5		Refusal at 9.5		

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI BH-3
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 11/1/2024
Drill Time: 11:00
Sample Depth: 2-4' bgs
Geoprobe Interval: 24"

Depth (Ft)	Lithology	Description	PID	Recovery
0		Concrete	0	
0.4		Crushed stone base; fill	0	
0.8				
1.2				Run 1 24"
1.6				
2				
2.4				
2.8				
3.2				
3.6				Run 2 24"
4		Brown to black sandy dry SILT, nonplastic and crushed gray rock, black cinder, red brick, trace clay, trace plastic; fill; refusal at 7.6 feet	0	
4.4				
4.8				
5.2				Run 3 24"
5.6				
6				
6.4				
6.8				Run 4 13"
7.2				

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

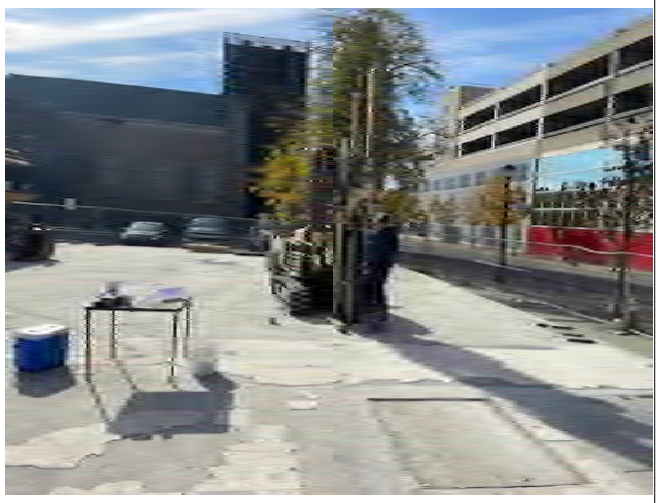
BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI BH-4
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 10/28/2024
Drill Time: 11:30
Sample Depth: 2-4' bgs
Geoprobe Interval: 48"

Depth (Ft)	Lithology	Description	PID	Recovery
0		Concrete	0	
0.5		Crushed stone base; fill	0	
1				
1.5		Brown to gray moist silty SAND, some clay, crushed stone, black cinder, trace wood; fill	0	Run 1 36"
2				
2.5				
3				
3.5				
4				
4.5		Brown to gray to black clay, plastic some black sandy silt, crushed stone, trace brick; fill	0	Run 2 40"
5				
5.5				
6				
6.5				
7				
7.5				
8				
8.5		Brown red to black dry silty clay, crushed rock, some black cinder, trace brick; fill	0	Run 3 31"
9				
9.5				
10				



Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI BH-5
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 11/1/2024
Drill Time: 14:45
Sample Depth: 2-6' bgs
Geoprobe Interval: 48"

Depth (Ft)	Lithology	Description	PID	Recovery
0				
0.4				
0.8		Concrete	0	
1.2				
1.6		Crushed stone base; fill	0	
2				
2.4				
2.8				
3.2				Run 1 18"
3.6				
4		Light brown moist silty Sand some crushed stone and brick; fill	0	
4.4				
4.8				
5.2				
5.6				
6				Run 2 22"
6.4		Large cobbles of bedrock, some brown sand, trace clay; Native;	0	
6.8				

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI BH-6
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 11/1/2024
Drill Time: 9:00
Sample Depth: 2-4' bgs
Geoprobe Interval: 24"

Depth (Ft)	Lithology	Description	PID	Recovery
0				
0.4		Concrete	0	
0.8		Crushed stone base; fill	0	
1.2				Run 1 20"
1.6				
2				
2.4				
2.8		Brown gray and black dry sandy SILT, nonplastic and crushed gray rock, black cinder, red brick and wood, trace clay; fill		
3.2				
3.6			0	Run 2 24"
4				
4.4				
4.8				Run 3 24"
5.2				
5.6				
6				
6.4		Brown to red dry silty CLAY,plastic crushed dark gray rock; Native; refusal at 8.1 feet		
6.8				
7.2			0	Run 4 8"
7.6				
8				

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI BH-7
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 10/28/2024
Drill Time: 13:00
Sample Depth: 2-4' bgs
Geoprobe Interval: 48"

Depth (Ft)	Lithology	Description	PID	Recovery
0				
0.4		Concrete	0	
0.8				
1.2		Crushed stone base; fill	0	
1.6				
2				
2.4				Run 1 34"
2.8				
3.2				
3.6		Brown black and red dry silty sandy CLAY, low plastic		
4				
4.4		black cinder, crushed gray rock, red brock, trace wood, trace plastics; fill; refusal at 6.8 feet	0	
4.8				
5.2				Run 2 33"
5.6				
6				
6.4				

Project: The Nest Site No. C932183

Client: Edgemere Development

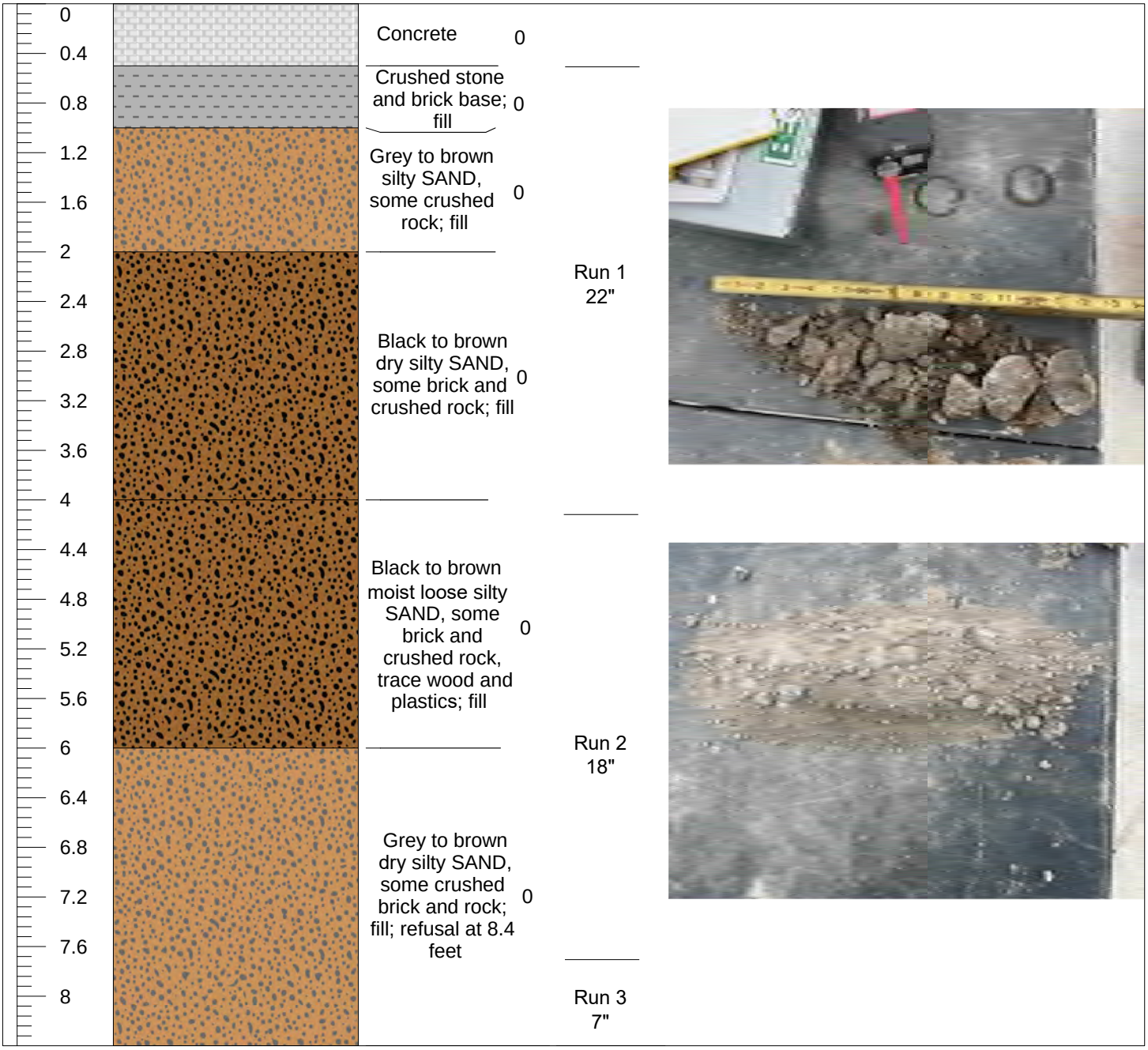
Address: 333 1st Street, Niagara Falls, New York

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI BH-8
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 11/1/2024
Drill Time: 13:30
Sample Depth: 2-6' bgs
Geoprobe Interval: 48"



Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI BH-9
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 11/1/2024
Drill Time: 16:15
Sample Depth: 4-6' bgs
Geoprobe Interval: 48"

Depth (Ft)	Lithology	Description	PID	Recovery
0				
0.4		Concrete	0	
0.8		Crushed stone base; fill	0	
1.2		Grey to brown dry silty SAND, some crushed brick and rock; fill;	0	
1.6				
2				
2.4				Run 1 18"
2.8				
3.2		No Recovery	0	
3.6				
4				
4.4				
4.8				
5.2		Black to brown dry loose silty SAND, some brick and crushed rock; fill	0	Run 2 33"
5.6				
6				
6.4				
6.8				

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI BH-10
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 10/29/2024
Drill Time: 9:00
Sample Depth: 2-4' bgs
Geoprobe Interval: 48"

Depth (Ft)	Lithology	Description	PID	Recovery
0				
0.4		Concrete	0	
0.8		Crushed stone base; fill	0	
1.2		Brown to black moist loose sandy SILT and crushed gray rock, trace clay; fill	0	Run 1 28"
1.6				
2				
2.4				
2.8				
3.2				
3.6				
4				
4.4		Brown to red to loose black silty CLAY, crushed gray rock; trace brick; fill; refusal at 7.2 feet	0	Run 2 32"
4.8				
5.2				
5.6				
6				
6.4				
6.8				

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI BH-11
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 10/31/2024
Drill Time: 13:00
Sample Depth: 0-2' bgs
Geoprobe Interval: 24"

Depth (Ft)	Lithology	Description	PID	Recovery
0		Concrete	0	
0.4				
0.8		Brown to black loose sandy SILT and crushed gray rock, black cinder, trace clay; fill	0	Run 1 18"
1.2				
1.6				
2				
2.4				
2.8				
3.2				
3.6				Run 2 24"
4				
4.4		Brown to black loose sandy SILT and crushed gray rock, trace clay, trace brick; fill; refusal at 8 feet	0	Run 3 11"
4.8				
5.2				
5.6				
6				
6.4				
6.8				Run 4 16"
7.2				
7.6				

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI BH-12
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 10/31/2024
Drill Time: 15:00
Sample Depth: 2-4' bgs
Geoprobe Interval: 24"

Depth (Ft)	Lithology	Description	PID	Recovery
0				
0.4		Concrete	0	
0.8		Crushed stone base; fill	0	
1.2				Run 1 20"
1.6				
2				
2.4		Brown to black sandy SILT and crushed gray rock, black cinder, red brick, trace clay; fill	0	
2.8				
3.2				Run 2 24"
3.6				
4				
4.4				
4.8				
5.2				Run 3 18"
5.6				
6		Brown to black sandy SILT and crushed gray rock, black cinder, trace clay; fill; refusal at 8.1 feet	0	
6.4				
6.8				Run 4 10"
7.2				
7.6				
8				

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

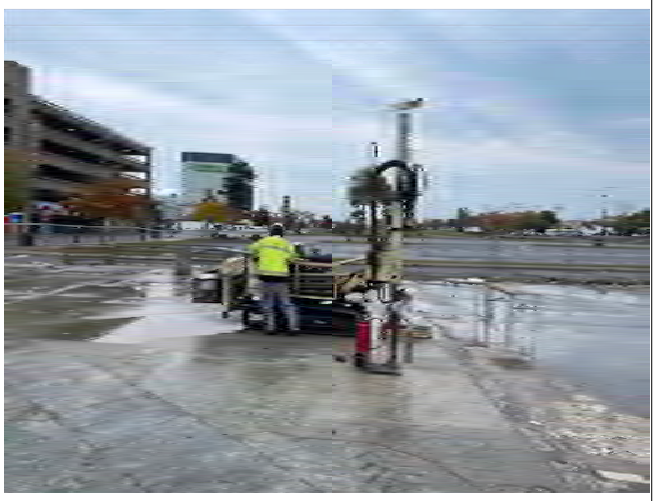
BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI VP-1
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 10/29/2024
Drill Time: 13:45
Sample Depth: 2-4' bgs
Geoprobe Interval: 48"

Depth (Ft)	Lithology	Description	PID	Recovery
0				
0.4		Concrete	0	
0.8		Crushed stone base; fill	0	
1.2				
1.6				
2				Run 1 38"
2.4				
2.8				
3.2				
3.6				
4				
4.4		Brown black and red moist silty sandy soft CLAY, black cinder, crushed gray rock, red brick, trace wood, trace plastics; fill; refusal at 8.3 feet; VP-1 installed at 4 feet	0	Run 2 44"
4.8				
5.2				
5.6				
6				
6.4				
6.8				
7.2				
7.6				
8				



Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

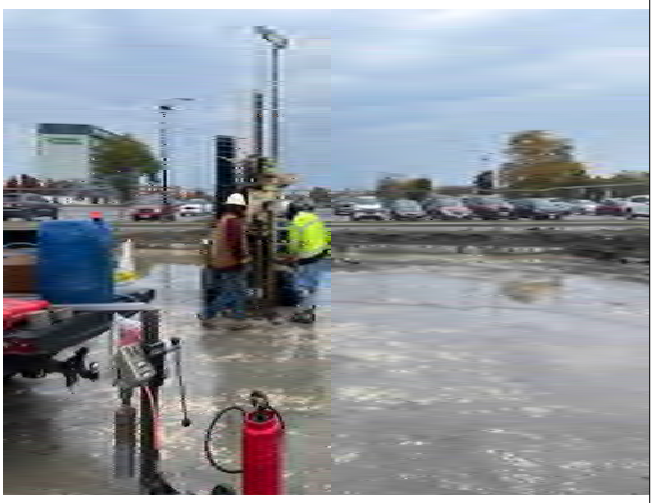
BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI VP-2
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 10/29/2024
Drill Time: 12:45
Sample Depth: 2-4' bgs
Geoprobe Interval: 48"

Depth (Ft)	Lithology	Description	PID	Recovery
0				
0.4		Concrete	0	
0.8		Crushed stone base; fill	0	
1.2				
1.6				
2				
2.4				Run 1 36"
2.8				
3.2				
3.6		Brown to black moist loose sandy SILT and crushed gray rock, some plasticy clay; fill; refusal at 8 feet; VP-2 installed at 8 feet	0	
4				
4.4				
4.8				
5.2				
5.6				
6				Run 2 44"
6.4				
6.8				
7.2				
7.6				



Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI VP-3
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 10/29/2024
Drill Time: 14:45
Sample Depth: 2-4' bgs
Geoprobe Interval: 48"

Depth (Ft)	Lithology	Description	PID	Recovery
0		Concrete	0	
0.5		Crushed stone base; fill	0	
1				
1.5				
2				Run 1 32"
2.5				
3				
3.5				
4		Brown black and red moist silty sandy soft CLAY, black cinder, crushed gray rock, red brock, trace wood, trace plastics; fill		
4.5			0	
5				
5.5				
6				Run 2 29"
6.5				
7				
7.5				
8		Brown to red silty moist soft CLAY, plastic; crushed rock; Native; refusal at 9.5 feet; VP-3 installed at 7.8'		
8.5			0	Run 3 20"
9				
9.5				

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI VP-4
Drilling Company: Atlantic Testing Laboratories
Drill Type: Geoprobe

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 10/29/2024
Drill Time: 10:00
Sample Depth: 2-4' bgs
Geoprobe Interval: 48"

Depth (Ft)	Lithology	Description	PID	Recovery
0		Concrete	0	
0.4		Crushed stone base; fill	0	
0.8				
1.2				Run 1 44"
1.6				
2				
2.4				
2.8		Brown to black loose sandy SILT and crushed gray rock, some soft clay, brick, ; fill; refusal at 6.8 feet.VP-4 installed at 6.8 feet.	0	
3.2				
3.6				
4				Run 2 32"
4.4				
4.8				
5.2				
5.6				
6				
6.4				

Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

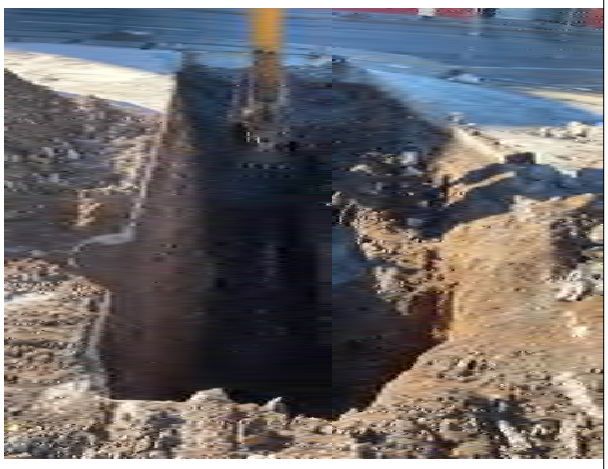
BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Remedial Investigation Boring Log

Bore Hole ID: RI TT-1
Drilling Company: Atlantic Testing Laboratories
Drill Type: Excavator

Field Technician: Joe Gambino
Location: Buffalo, NY
Drill Date: 11/13/2024
Drill Time: 9:00
Sample Depth: 6-7' bgs

Depth (Ft)	Lithology	Description	PID
0 – 0.5		Concrete	0
0.5 – 8		Brown to black dry silty SAND, some brick and crushed rock; fill	0
8 – 8.5		Bedrock	0



Project: The Nest Site No. C932183

Client: Edgemere Development

Address: 333 1st Street, Niagara Falls, New York

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Timothy L. Burmeier Geologist
304 Woodward Avenue
Buffalo, New York 14214
716-983-9836

2015-Present Consultant

Allegany and Cattaraugus Counties Orphan Oil Well Plugging Program- oversight of field operations (2015-2021). Field inspection and documentation of well plugging operations. Locate oil wells and plot with GPS instrument. Submit forms to obtain plugging permits from NYSDEC. Submit plugging report to State. Interact with State and Federal employees and landowners. Find historic oil lease documents and current surface owner information at Allegany Court House

1996-2015 URS / AECOM

New York City Transit: field operations coordinator of sampling crews and drilling, laboratory, survey, and disposal subcontractors at approximately 100 sites in New York City, (as well as preparation of investigation plans and reports). Additional responsibilities included approval of invoices and tracking costs associated with the contracts. The primary objectives are site investigations to evaluate and remediate petroleum contamination resulting from leaking USTs at New York City Department of Design and Construction (NYCDDC) and New York City Transit (NYCT) facilities throughout New York City. Duties include issuance of work plans and Health and Safety Plans to all concerned parties, and preparation of schedules for submittal to URS field staff, subcontractors, key facility staff, and the regulators.

Additional experience with URS includes the participation in investigations of petroleum product spills and active and inactive hazardous waste sites. Projects have included drilling, well installation, and other field activities on numerous New York State Superfund Phase I, Phase II, remedial investigations/feasibility studies (RI/FSs), and geotechnical pre-design investigations. Primary and contributing author of various geotechnical and environmental reports.

Key Projects

New York Power Authority, Groundwater Study: Participated in an extensive nested monitoring well installation project along the length of a buried water conduit in Niagara Falls. Examined rock cores and prepared detailed lithology logs, performed pressure tests on core holes at 17 well locations to determine hydraulically conductive fracture intervals, and used lithologic data and groundwater analytical data to construct geologic cross sections showing extent of saline groundwater within a fractured bedrock aquifer. Liaison with Tuscarora environmental group. Responsible for detailed geologic characterization portion of the report submitted for the re-licensing of the Niagara Power Project.

Stuart Olver Holtz, Supplemental Investigation, Henrietta, NY: Field coordinator of pre-design investigation of metals and solvent source area at the site. The soil and groundwater data from the investigation was used to evaluate an in-situ chemical oxidation remediation proposed for the site. Primary author of Supplemental Investigation report.

Dinaburg Site Remedial Investigation, Rochester, NY: Field coordinator of drilling crews and technicians at a former dry cleaning distributor located in a dense urban neighborhood. Activities included: geoprobe and auger drilling in residential yards, sidewalks and inside the facility, soil gas survey, water and soil sample collection, and public relations.

DuPont Necco Park, O&M Supervisor, Niagara Falls, NY: Responsibilities included assisting in tracking subcontractor costs, maintaining pumping wells, and coordinated activities of sampling contractors, analytical labs, drillers and surveyors at a hazardous waste site in Niagara Falls, NY. Coordinated DNAPL collection and disposal. Provided oversight of perimeter exploratory borings delineating the extent of DNAPL contamination, top of 'gumbo' clay and depth to bedrock prior to siting recovery wells.

Searsport Pipeline, Maine: Assisted on a Phase I environmental site assessment along a decommissioned 160 mile jet fuel pipeline for Air Force Center for Environmental Excellence (AFCEE). Functioned as the field lead on Phase II soil gas survey, contamination delineation at three pumping stations with geoprobe rig and test pit investigations at pipeline valves. Also functioned as the Phase III field lead with activities involving monitoring well installation and soil and groundwater sampling. Hired construction crew to cut access roads for well installations. Assisted in preparation and presentation of the results to Air Force.

Shallow Land Disposal Area- Armstrong County, PA provided oversight of well installations at 44 acre radioactive waste disposal site- a US Army Corps of Engineers FUSRAP site.

Bethlehem Steel- Lackawanna, NY- participated in a geotechnical investigation for capping the solid waste management units (SWMUs). Primary author of Phase 1 ESA of the galvanizing mill for a potential buyer.

Rose Valley Landfill- Poland NY. Field coordinator of preliminary investigation prior to capping dump site. Investigation included determining the extent of uncontrolled waste disposal, thickness of waste, depth to native soil, installation of bedrock and overburden wells, well development and sampling. Wrote the report submitted to the NYSDEC.

Previous Employment

Phillips Petroleum development geologist in the Texas Panhandle and exploration geologist in offshore California. Contract well site geologist in offshore Pearl River Basin, China.

Education

MA, Geology, State University of New York at Buffalo, 1978
Thesis: Field mapping of volcanic neck on Hopi Indian Reservation outlining eruptive history and petrography of xenolith inclusions.

Appendix E

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213
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JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-224373-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

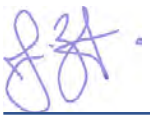
my EOL

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



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Authorized for release by
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
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Qualifiers

GC/MS 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.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

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
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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: 480-224373-1 Eurofins Buffalo

Job Narrative
480-224373-1

Receipt
The sample was received on 10/15/2024 4:35 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.2° C.

GC/MS VOA
Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-728699 and analytical batch 480-728670 were outside control limits for one or more analytes. See QC Sample Results for detail.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-728699 and analytical batch 480-728670 was outside control limits.

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

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

LCMS
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 analytes associated with this IDA are within spec, data is reported. The following sample is impacted: R1 MW-3 (2-4') (480-224373-1).

Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-631763 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 analytes associated with this IDA are within spec, data is reported.

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit in the opening CCB for the following sample: R1 MW-3 (2-4') (480-224373-1). 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.

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

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-729538 and analytical batch 480-729607 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224373-1
Project/Site: The Nest Site Analysis

Client Sample ID: R1 MW-3 (2-4')
Lab Sample ID: 480-224373-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	6.4	J F1 F2 vs	27	2.0	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.47	J vs	5.4	0.33	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.50	J vs	5.4	0.37	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.4	J vs	5.4	0.41	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.1	J vs	11	0.91	ug/Kg	1	☼	8260C	Total/NA
Perfluorobutanoic acid (PFBA)	0.19	J	0.69	0.17	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.11	J	0.17	0.043	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	8190	F2	10.9	9.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.9		2.2	0.96	mg/Kg	1	☼	6010C	Total/NA
Barium	161	F1 F2	0.55	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.39		0.22	0.044	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.79		0.22	0.077	mg/Kg	1	☼	6010C	Total/NA
Calcium	68800	F2	54.7	29.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	11.4		0.55	0.39	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.6		0.55	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	30.6		1.1	0.62	mg/Kg	1	☼	6010C	Total/NA
Iron	11600		10.9	9.3	mg/Kg	1	☼	6010C	Total/NA
Lead	144	F1 F2	1.1	0.50	mg/Kg	1	☼	6010C	Total/NA
Magnesium	23200	F2	21.9	9.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	405	F1	1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	13.3		5.5	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	1890		32.8	26.5	mg/Kg	1	☼	6010C	Total/NA
Sodium	467		153	67.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	17.4		0.55	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	229	F1 F2	2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.087		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: R1 MW-3 (2-4')
Date Collected: 10/15/24 15:30
Date Received: 10/15/24 16:35

Lab Sample ID: 480-224373-1
Matrix: Solid
Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.4	U vs	5.4	0.39	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,1,2,2-Tetrachloroethane	5.4	U F1 F2 vs	5.4	0.87	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,1,2-Trichloroethane	5.4	U F1 vs	5.4	0.70	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	5.4	1.2	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,1-Dichloroethane	5.4	U vs	5.4	0.66	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,1-Dichloroethene	5.4	U vs	5.4	0.66	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,2,4-Trichlorobenzene	5.4	U F1 vs	5.4	0.33	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,2-Dibromo-3-Chloropropane	5.4	U F1 vs	5.4	2.7	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,2-Dichlorobenzene	5.4	U vs	5.4	0.42	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,2-Dichloroethane	5.4	U vs	5.4	0.27	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,2-Dichloropropane	5.4	U vs	5.4	2.7	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,3-Dichlorobenzene	5.4	U F1 vs	5.4	0.28	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,4-Dichlorobenzene	5.4	U F1 vs	5.4	0.75	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
2-Butanone (MEK)	**6.4**	**J F1 F2 vs**	27	2.0	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
2-Hexanone	27	U vs	27	2.7	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.8	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Acetone	27	U vs	27	4.5	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Benzene	5.4	U vs	5.4	0.26	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Bromodichloromethane	5.4	U vs	5.4	0.72	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Bromoform	5.4	U vs	5.4	2.7	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Bromomethane	5.4	U vs	5.4	0.49	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Carbon disulfide	5.4	U vs	5.4	2.7	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Carbon tetrachloride	5.4	U vs	5.4	0.52	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Chlorobenzene	5.4	U vs	5.4	0.71	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Dibromochloromethane	5.4	U vs	5.4	0.69	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Chloroethane	5.4	U vs	5.4	1.2	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Chloroform	**0.47**	**J vs**	5.4	0.33	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Chloromethane	5.4	U vs	5.4	0.33	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
cis-1,2-Dichloroethene	5.4	U vs	5.4	0.69	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
cis-1,3-Dichloropropene	5.4	U vs	5.4	0.78	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Cyclohexane	5.4	U vs	5.4	0.75	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Dichlorodifluoromethane	5.4	U vs	5.4	0.45	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Ethylbenzene	**0.50**	**J vs**	5.4	0.37	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
1,2-Dibromoethane	5.4	U F1 vs	5.4	0.69	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Isopropylbenzene	5.4	U vs	5.4	0.81	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Methyl acetate	27	U F2 vs	27	3.3	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Methyl tert-butyl ether	5.4	U vs	5.4	0.53	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Methylcyclohexane	5.4	U vs	5.4	0.82	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Methylene Chloride	5.4	U vs	5.4	2.5	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Styrene	5.4	U F1 vs	5.4	0.27	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Tetrachloroethene	5.4	U vs	5.4	0.72	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Toluene	**1.4**	**J vs**	5.4	0.41	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
trans-1,2-Dichloroethene	5.4	U vs	5.4	0.56	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
trans-1,3-Dichloropropene	5.4	U vs	5.4	2.4	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Trichloroethene	5.4	U F1 vs	5.4	1.2	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Trichlorofluoromethane	5.4	U vs	5.4	0.51	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Vinyl chloride	5.4	U vs	5.4	0.66	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1
Xylenes, Total	**3.1**	**J vs**	11	0.91	ug/Kg	☼	10/17/24 13:09	10/17/24 15:29	1

Client Sample ID: R1 MW-3 (2-4')
Date Collected: 10/15/24 15:30
Date Received: 10/15/24 16:35

Lab Sample ID: 480-224373-1
Matrix: Solid
Percent Solids: 91.5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	2.3	J	ug/Kg	☼	8.48	179601-23-1	10/17/24 13:09	10/17/24 15:29	1
o-Xylene	0.81	J	ug/Kg	☼	8.90	95-47-6	10/17/24 13:09	10/17/24 15:29	1
Tentatively Identified Compound	None		ug/Kg	☼		N/A	10/17/24 13:09	10/17/24 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		71 - 125	10/17/24 13:09	10/17/24 15:29	1
1,2-Dichloroethane-d4 (Surr)	100		64 - 126	10/17/24 13:09	10/17/24 15:29	1
4-Bromofluorobenzene (Surr)	98		72 - 126	10/17/24 13:09	10/17/24 15:29	1
Dibromofluoromethane (Surr)	107		60 - 140	10/17/24 13:09	10/17/24 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3100	U	3100	1700	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2,4,5-Trichlorophenol	5300	U	5300	1400	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2,4,6-Trichlorophenol	5300	U	5300	1100	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2,4-Dichlorophenol	5300	U	5300	560	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2,4-Dimethylphenol	5300	U	5300	1300	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2,4-Dinitrophenol	52000	U	52000	25000	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2,4-Dinitrotoluene	5300	U	5300	1100	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2,6-Dinitrotoluene	5300	U	5300	630	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2-Chloronaphthalene	5300	U	5300	880	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2-Chlorophenol	10000	U	10000	970	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2-Methylnaphthalene	5300	U	5300	1100	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2-Methylphenol	5300	U	5300	630	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2-Nitroaniline	10000	U	10000	780	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
2-Nitrophenol	5300	U	5300	1500	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
3,3'-Dichlorobenzidine	10000	U	10000	6300	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
3-Nitroaniline	10000	U	10000	1500	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
4,6-Dinitro-2-methylphenol	10000	U	10000	5300	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
4-Bromophenyl phenyl ether	5300	U	5300	750	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
4-Chloro-3-methylphenol	5300	U	5300	1300	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
4-Chloroaniline	5300	U	5300	1300	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
4-Chlorophenyl phenyl ether	5300	U	5300	660	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
4-Methylphenol	10000	U	10000	630	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
4-Nitroaniline	10000	U	10000	2800	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
4-Nitrophenol	10000	U	10000	3700	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Acenaphthene	5300	U	5300	780	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Acenaphthylene	5300	U	5300	690	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Acetophenone	5300	U	5300	720	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Anthracene	5300	U	5300	1300	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Atrazine	5300	U	5300	1900	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Benzaldehyde	5300	U	5300	4200	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Benzo[a]anthracene	5300	U	5300	530	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Benzo[a]pyrene	5300	U	5300	780	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Benzo[b]fluoranthene	5300	U	5300	850	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Benzo[g,h,i]perylene	5300	U	5300	560	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Benzo[k]fluoranthene	5300	U	5300	690	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Biphenyl	5300	U	5300	780	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
bis (2-chloroisopropyl) ether	5300	U	5300	1100	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Bis(2-chloroethoxy)methane	5300	U	5300	1100	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5

Client Sample ID: R1 MW-3 (2-4')
Lab Sample ID: 480-224373-1
Date Collected: 10/15/24 15:30
Matrix: Solid
Date Received: 10/15/24 16:35
Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	5300	U	5300	690	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Bis(2-ethylhexyl) phthalate	5300	U	5300	1800	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Butyl benzyl phthalate	5300	U	5300	880	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Caprolactam	5300	U	5300	1600	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Carbazole	5300	U	5300	630	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Chrysene	5300	U	5300	1200	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Dibenz(a,h)anthracene	5300	U	5300	940	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Dibenzofuran	5300	U	5300	630	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Diethyl phthalate	5300	U	5300	690	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Dimethyl phthalate	5300	U	5300	630	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Di-n-butyl phthalate	5300	U	5300	910	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Di-n-octyl phthalate	5300	U	5300	630	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Fluoranthene	5300	U	5300	560	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Fluorene	5300	U	5300	630	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Hexachlorobenzene	5300	U	5300	720	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Hexachlorobutadiene	5300	U	5300	780	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Hexachlorocyclopentadiene	5300	U	5300	720	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Hexachloroethane	5300	U	5300	690	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Indeno[1,2,3-cd]pyrene	5300	U	5300	660	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Isophorone	5300	U	5300	1100	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Naphthalene	5300	U	5300	690	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Nitrobenzene	5300	U	5300	600	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
N-Nitrosodi-n-propylamine	5300	U	5300	910	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
N-Nitrosodiphenylamine	5300	U	5300	4300	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Pentachlorophenol	10000	U	10000	5300	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Phenanthrene	5300	U	5300	780	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Phenol	5300	U	5300	820	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5
Pyrene	5300	U	5300	630	ug/Kg	☼	10/28/24 17:43	10/29/24 11:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*26 - 143*	*10/28/24 17:43*	*10/29/24 11:34*	*5*
2-Fluorobiphenyl (Surr)	*80*		*50 - 121*	*10/28/24 17:43*	*10/29/24 11:34*	*5*
2-Fluorophenol (Surr)	*73*		*36 - 120*	*10/28/24 17:43*	*10/29/24 11:34*	*5*
Nitrobenzene-d5 (Surr)	*73*		*40 - 121*	*10/28/24 17:43*	*10/29/24 11:34*	*5*
Phenol-d5 (Surr)	*74*		*41 - 120*	*10/28/24 17:43*	*10/29/24 11:34*	*5*
p-Terphenyl-d14 (Surr)	*84*		*46 - 143*	*10/28/24 17:43*	*10/29/24 11:34*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	210	U	210	41	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
4,4'-DDE	210	U	210	44	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
4,4'-DDT	210	U	210	49	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
Aldrin	210	U	210	52	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
alpha-BHC	210	U	210	38	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
beta-BHC	210	U	210	38	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
Chlordane (.alpha.)	210	U	210	100	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
delta-BHC	210	U	210	39	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
Dieldrin	210	U	210	50	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
Endosulfan I	210	U	210	40	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
Endosulfan II	210	U	210	38	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20

Client Sample ID: R1 MW-3 (2-4')
Lab Sample ID: 480-224373-1
Date Collected: 10/15/24 15:30
Matrix: Solid
Date Received: 10/15/24 16:35
Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	210	U	210	39	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
Endrin	210	U	210	42	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
Heptachlor	210	U	210	45	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20
Lindane	210	U	210	39	ug/Kg	☼	10/28/24 18:02	10/29/24 16:19	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*10/28/24 18:02*	*10/29/24 16:19*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*10/28/24 18:02*	*10/29/24 16:19*	*20*
Tetrachloro-m-xylene	*114*		*30 - 124*	*10/28/24 18:02*	*10/29/24 16:19*	*20*
Tetrachloro-m-xylene	*112*		*30 - 124*	*10/28/24 18:02*	*10/29/24 16:19*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.25	U	0.25	0.048	mg/Kg	☼	10/21/24 17:40	10/22/24 18:38	1
PCB-1221	0.25	U	0.25	0.048	mg/Kg	☼	10/21/24 17:40	10/22/24 18:38	1
PCB-1232	0.25	U	0.25	0.048	mg/Kg	☼	10/21/24 17:40	10/22/24 18:38	1
PCB-1242	0.25	U	0.25	0.048	mg/Kg	☼	10/21/24 17:40	10/22/24 18:38	1
PCB-1248	0.25	U	0.25	0.048	mg/Kg	☼	10/21/24 17:40	10/22/24 18:38	1
PCB-1254	0.25	U	0.25	0.12	mg/Kg	☼	10/21/24 17:40	10/22/24 18:38	1
PCB-1260	0.25	U	0.25	0.12	mg/Kg	☼	10/21/24 17:40	10/22/24 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*120*		*60 - 154*	*10/21/24 17:40*	*10/22/24 18:38*	*1*
Tetrachloro-m-xylene	*93*		*60 - 154*	*10/21/24 17:40*	*10/22/24 18:38*	*1*
DCB Decachlorobiphenyl	*114*		*65 - 174*	*10/21/24 17:40*	*10/22/24 18:38*	*1*
DCB Decachlorobiphenyl	*96*		*65 - 174*	*10/21/24 17:40*	*10/22/24 18:38*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	100	U	100	38	ug/Kg	☼	10/28/24 18:12	10/30/24 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*10/28/24 18:12*	*10/30/24 13:00*	*1*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*	*10/28/24 18:12*	*10/30/24 13:00*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.19**	**J**	0.69	0.17	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.086	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorooctanoic acid (PFOA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1

Client Sample ID: R1 MW-3 (2-4')
Lab Sample ID: 480-224373-1
Date Collected: 10/15/24 15:30
Matrix: Solid
Date Received: 10/15/24 16:35
Percent Solids: 91.5

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorooctanesulfonic acid (PFOS)	**0.11**	**J**	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.43	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.43	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.69	U	0.69	0.17	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.69	U	0.69	0.17	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.086	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.086	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.69	U	0.69	0.17	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.69	U	0.69	0.17	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.086	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.86	U	0.86	0.22	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.3	U	4.3	1.1	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.3	U	4.3	1.1	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.043	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.086	ug/Kg	☼	10/21/24 10:05	10/22/24 01:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85.0*		*20 - 150*	*10/21/24 10:05*	*10/22/24 01:22*	*1*
13C5 PFPeA	*74.7*		*20 - 150*	*10/21/24 10:05*	*10/22/24 01:22*	*1*
13C5 PFHxA	*79.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 01:22*	*1*
13C4 PFHpA	*79.8*		*20 - 150*	*10/21/24 10:05*	*10/22/24 01:22*	*1*

Client Sample ID: R1 MW-3 (2-4')
Lab Sample ID: 480-224373-1

Date Collected: 10/15/24 15:30
Matrix: Solid

Date Received: 10/15/24 16:35
Percent Solids: 91.5

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	75.8		20 - 150	10/21/24 10:05	10/22/24 01:22	1
13C9 PFNA	87.5		20 - 150	10/21/24 10:05	10/22/24 01:22	1
13C6 PFDA	88.3		20 - 150	10/21/24 10:05	10/22/24 01:22	1
13C7 PFUnA	80.8		20 - 150	10/21/24 10:05	10/22/24 01:22	1
13C2 PFTeDA	52.0		20 - 150	10/21/24 10:05	10/22/24 01:22	1
13C3 PFBS	92.4		20 - 150	10/21/24 10:05	10/22/24 01:22	1
13C3 PFHxS	78.2		20 - 150	10/21/24 10:05	10/22/24 01:22	1
13C8 PFOS	84.7		20 - 150	10/21/24 10:05	10/22/24 01:22	1
13C8 PFOSA	79.7		20 - 150	10/21/24 10:05	10/22/24 01:22	1
d3-NMeFOSAA	83.3		20 - 150	10/21/24 10:05	10/22/24 01:22	1
d5-NEtFOSAA	87.3		20 - 150	10/21/24 10:05	10/22/24 01:22	1
M2-4:2 FTS	124		20 - 150	10/21/24 10:05	10/22/24 01:22	1
M2-6:2 FTS	127		20 - 150	10/21/24 10:05	10/22/24 01:22	1
M2-8:2 FTS	131		20 - 150	10/21/24 10:05	10/22/24 01:22	1
13C3 HFPO-DA	80.2		20 - 150	10/21/24 10:05	10/22/24 01:22	1
d7-N-MeFOSE-M	68.0		20 - 150	10/21/24 10:05	10/22/24 01:22	1
d9-N-EtFOSE-M	64.0		20 - 150	10/21/24 10:05	10/22/24 01:22	1
d5-NEtPFOSA	67.8		20 - 150	10/21/24 10:05	10/22/24 01:22	1
D3-NMeFOSA	66.6		20 - 150	10/21/24 10:05	10/22/24 01:22	1
13C2-PFDoDA	77.1		20 - 150	10/21/24 10:05	10/22/24 01:22	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8190**	**F2**	10.9	9.4	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Antimony	16.4	U F1	16.4	0.58	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Arsenic	**4.9**		2.2	0.96	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Barium	**161**	**F1 F2**	0.55	0.15	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Beryllium	**0.39**		0.22	0.044	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Cadmium	**0.79**		0.22	0.077	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Calcium	**68800**	**F2**	54.7	29.5	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Chromium	**11.4**		0.55	0.39	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Cobalt	**4.6**		0.55	0.11	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Copper	**30.6**		1.1	0.62	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Iron	**11600**		10.9	9.3	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Lead	**144**	**F1 F2**	1.1	0.50	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Magnesium	**23200**	**F2**	21.9	9.3	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Manganese	**405**	**F1**	1.1	0.31	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Nickel	**13.3**		5.5	0.27	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Potassium	**1890**		32.8	26.5	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Selenium	4.4	U F1	4.4	0.88	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Silver	0.66	U	0.66	0.22	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Sodium	**467**		153	67.1	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Thallium	6.6	U	6.6	0.83	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Vanadium	**17.4**		0.55	0.14	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1
Zinc	**229**	**F1 F2**	2.2	1.1	mg/Kg	☼	10/16/24 14:44	10/17/24 12:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.087**		0.022	0.0051	mg/Kg	☼	10/17/24 08:42	10/17/24 13:59	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224373-1
Project/Site: The Nest Site Analysis

Client Sample ID: R1 MW-3 (2-4')
Lab Sample ID: 480-224373-1
Date Collected: 10/15/24 15:30
Matrix: Solid
Date Received: 10/15/24 16:35
Percent Solids: 91.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.91	mg/Kg	☼	10/25/24 09:00	10/25/24 13:40	1
Cyanide, Total (SW846 9012B)	1.1	U	1.1	0.52	mg/Kg	☼	10/23/24 13:58	10/23/24 19:41	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224373-1
Project/Site: The Nest Site Analysis

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-224373-1	R1 MW-3 (2-4')	102	100	98	107
480-224373-1 MS	R1 MW-3 (2-4')	103	90	93	102
480-224373-1 MSD	R1 MW-3 (2-4')	104	86	94	104
LCS 480-728699/1-A	Lab Control Sample	101	101	102	104
MB 480-728699/2-A	Method Blank	101	105	103	107

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (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	PHL	TPHd14
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(41-120)	(46-143)
480-224373-1	R1 MW-3 (2-4')	64	80	73	73	74	84
LCS 480-730173/2-A	Lab Control Sample	86	90	82	89	84	103
MB 480-730173/1-A	Method Blank	72	87	79	87	82	97

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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)
480-224373-1	R1 MW-3 (2-4')	0 S1-	0 S1-	114	112
LCS 480-730175/2-A	Lab Control Sample	59	83	58	63
MB 480-730175/1-A	Method Blank	72	87	60	66

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)
480-224373-1	R1 MW-3 (2-4')	93	120	96	114
LCS 480-729216/2-A	Lab Control Sample	106	137	109	123

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224373-1
Project/Site: The Nest Site Analysis

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 480-729216/1-A	Method Blank	91	122	106	122

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)
480-224373-1	R1 MW-3 (2-4')	71	77
LCS 480-730177/2-A	Lab Control Sample	73	75
LCSD 480-730177/3-A	Lab Control Sample Dup	76	75
MB 480-730177/1-A	Method Blank	80	72

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224373-1
Project/Site: The Nest Site Analysis

Method: Draft-3 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)
480-224373-1	R1 MW-3 (2-4')	85.0	74.7	79.9	79.8	75.8	87.5	88.3	80.8
LCS 240-631678/3-A	Lab Control Sample	87.9	77.8	81.4	83.8	77.9	85.1	85.3	79.8
LLCS 240-631678/2-A	Lab Control Sample	92.5	83.0	87.7	88.5	78.5	93.2	93.6	85.0
MB 240-631678/1-A	Method Blank	96.1	86.5	95.9	93.9	87.5	104	100	88.7

		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)
480-224373-1	R1 MW-3 (2-4')	52.0	92.4	78.2	84.7	79.7	83.3	87.3	124
LCS 240-631678/3-A	Lab Control Sample	54.9	89.9	80.9	84.9	78.4	89.8	88.0	119
LLCS 240-631678/2-A	Lab Control Sample	55.2	96.3	87.3	85.1	81.6	92.0	87.7	133
MB 240-631678/1-A	Method Blank	58.3	102	87.6	93.5	93.0	97.1	95.5	136

		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)
480-224373-1	R1 MW-3 (2-4')	127	131	80.2	68.0	64.0	67.8	66.6	77.1
LCS 240-631678/3-A	Lab Control Sample	136	128	79.3	67.9	61.1	61.6	58.2	76.5
LLCS 240-631678/2-A	Lab Control Sample	141	144	90.1	69.0	65.3	65.5	59.3	76.1
MB 240-631678/1-A	Method Blank	148	149	96.3	78.6	71.9	70.9	65.2	78.9

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 480-728699/2-A
Matrix: Solid
Analysis Batch: 728670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
2-Hexanone	25	U	25	2.5	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Acetone	25	U	25	4.2	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Benzene	5.0	U	5.0	0.25	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Chloroform	5.0	U	5.0	0.31	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Chloromethane	5.0	U	5.0	0.30	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Methyl acetate	25	U	25	3.0	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Styrene	5.0	U	5.0	0.25	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Toluene	5.0	U	5.0	0.38	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		10/17/24 13:09	10/17/24 15:02	1
Xylenes, Total	10	U	10	0.84	ug/Kg		10/17/24 13:09	10/17/24 15:02	1

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

Lab Sample ID: MB 480-728699/2-A
Matrix: Solid
Analysis Batch: 728670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728699

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	10/17/24 13:09	10/17/24 15:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 125	10/17/24 13:09	10/17/24 15:02	1
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	10/17/24 13:09	10/17/24 15:02	1
4-Bromofluorobenzene (Surr)	103		72 - 126	10/17/24 13:09	10/17/24 15:02	1
Dibromofluoromethane (Surr)	107		60 - 140	10/17/24 13:09	10/17/24 15:02	1

Lab Sample ID: LCS 480-728699/1-A
Matrix: Solid
Analysis Batch: 728670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.9		ug/Kg		96	77 - 121
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/Kg		96	80 - 120
1,1,2-Trichloroethane	50.0	47.7		ug/Kg		95	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.1		ug/Kg		98	60 - 140
1,1-Dichloroethane	50.0	49.1		ug/Kg		98	73 - 126
1,1-Dichloroethene	50.0	48.7		ug/Kg		97	59 - 125
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	50.4		ug/Kg		101	63 - 124
1,2-Dichlorobenzene	50.0	48.6		ug/Kg		97	75 - 120
1,2-Dichloroethane	50.0	50.4		ug/Kg		101	77 - 122
1,2-Dichloropropane	50.0	48.5		ug/Kg		97	75 - 124
1,3-Dichlorobenzene	50.0	48.5		ug/Kg		97	74 - 120
1,4-Dichlorobenzene	50.0	47.5		ug/Kg		95	73 - 120
2-Butanone (MEK)	250	281		ug/Kg		112	70 - 134
2-Hexanone	250	253		ug/Kg		101	59 - 130
4-Methyl-2-pentanone (MIBK)	250	258		ug/Kg		103	65 - 133
Acetone	250	294		ug/Kg		118	61 - 137
Benzene	50.0	50.3		ug/Kg		101	79 - 127
Bromodichloromethane	50.0	50.9		ug/Kg		102	80 - 122
Bromoform	50.0	50.6		ug/Kg		101	68 - 126
Bromomethane	50.0	42.3		ug/Kg		85	37 - 149
Carbon disulfide	50.0	47.2		ug/Kg		94	64 - 131
Carbon tetrachloride	50.0	48.9		ug/Kg		98	75 - 135
Chlorobenzene	50.0	48.5		ug/Kg		97	76 - 124
Dibromochloromethane	50.0	50.8		ug/Kg		102	76 - 125
Chloroethane	50.0	51.3		ug/Kg		103	69 - 135
Chloroform	50.0	49.0		ug/Kg		98	80 - 120
Chloromethane	50.0	46.1		ug/Kg		92	63 - 127
cis-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	81 - 120
cis-1,3-Dichloropropene	50.0	50.4		ug/Kg		101	80 - 120
Cyclohexane	50.0	48.1		ug/Kg		96	65 - 120
Dichlorodifluoromethane	50.0	43.4		ug/Kg		87	57 - 142
Ethylbenzene	50.0	48.4		ug/Kg		97	80 - 120
1,2-Dibromoethane	50.0	49.8		ug/Kg		100	78 - 120

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

Lab Sample ID: LCS 480-728699/1-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 728670
Prep Batch: 728699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	50.0	48.0		ug/Kg		96	72 - 120
Methyl acetate	100	113		ug/Kg		113	55 - 136
Methyl tert-butyl ether	50.0	50.8		ug/Kg		102	63 - 125
Methylcyclohexane	50.0	49.9		ug/Kg		100	60 - 140
Methylene Chloride	50.0	51.6		ug/Kg		103	61 - 127
Styrene	50.0	48.7		ug/Kg		97	80 - 120
Tetrachloroethene	50.0	48.5		ug/Kg		97	74 - 122
Toluene	50.0	47.3		ug/Kg		95	74 - 128
trans-1,2-Dichloroethene	50.0	50.0		ug/Kg		100	78 - 126
trans-1,3-Dichloropropene	50.0	49.3		ug/Kg		99	73 - 123
Trichloroethene	50.0	48.6		ug/Kg		97	77 - 129
Trichlorofluoromethane	50.0	47.4		ug/Kg		95	65 - 146
Vinyl chloride	50.0	46.5		ug/Kg		93	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*
Dibromofluoromethane (Surr)	*104*		*60 - 140*

Lab Sample ID: 480-224373-1 MS
Client Sample ID: R1 MW-3 (2-4')
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 728670
Prep Batch: 728699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	5.4	U vs	54.1	54.3	vs	ug/Kg	☼	100	77 - 121
1,1,2,2-Tetrachloroethane	5.4	U F1 F2 vs	54.1	33.6	F1 vs	ug/Kg	☼	62	80 - 120
1,1,2-Trichloroethane	5.4	U F1 vs	54.1	49.2	vs	ug/Kg	☼	91	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	54.1	48.8	vs	ug/Kg	☼	90	60 - 140
1,1-Dichloroethane	5.4	U vs	54.1	57.7	vs	ug/Kg	☼	107	73 - 126
1,1-Dichloroethene	5.4	U vs	54.1	54.4	vs	ug/Kg	☼	100	59 - 125
1,2,4-Trichlorobenzene	5.4	U F1 vs	54.1	28.1	F1 vs	ug/Kg	☼	52	64 - 120
1,2-Dibromo-3-Chloropropane	5.4	U F1 vs	54.1	40.3	vs	ug/Kg	☼	75	63 - 124
1,2-Dichlorobenzene	5.4	U vs	54.1	44.7	vs	ug/Kg	☼	83	75 - 120
1,2-Dichloroethane	5.4	U vs	54.1	53.6	vs	ug/Kg	☼	99	77 - 122
1,2-Dichloropropane	5.4	U vs	54.1	56.6	vs	ug/Kg	☼	105	75 - 124
1,3-Dichlorobenzene	5.4	U F1 vs	54.1	46.4	vs	ug/Kg	☼	86	74 - 120
1,4-Dichlorobenzene	5.4	U F1 vs	54.1	45.1	vs	ug/Kg	☼	83	73 - 120
2-Butanone (MEK)	6.4	J F1 F2 vs	271	234	vs	ug/Kg	☼	84	70 - 134
2-Hexanone	27	U vs	271	214	vs	ug/Kg	☼	79	59 - 130
4-Methyl-2-pentanone (MIBK)	27	U vs	271	223	vs	ug/Kg	☼	83	65 - 133
Acetone	27	U vs	271	227	vs	ug/Kg	☼	84	61 - 137
Benzene	5.4	U vs	54.1	58.7	vs	ug/Kg	☼	108	79 - 127
Bromodichloromethane	5.4	U vs	54.1	55.9	vs	ug/Kg	☼	103	80 - 122
Bromoform	5.4	U vs	54.1	43.9	vs	ug/Kg	☼	81	68 - 126
Bromomethane	5.4	U vs	54.1	59.4	vs	ug/Kg	☼	110	37 - 149

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

Lab Sample ID: 480-224373-1 MS
Matrix: Solid
Analysis Batch: 728670

Client Sample ID: R1 MW-3 (2-4')
Prep Type: Total/NA
Prep Batch: 728699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	5.4	U vs	54.1	51.5	vs	ug/Kg	☼	95	64 - 131
Carbon tetrachloride	5.4	U vs	54.1	51.7	vs	ug/Kg	☼	96	75 - 135
Chlorobenzene	5.4	U vs	54.1	51.3	vs	ug/Kg	☼	95	76 - 124
Dibromochloromethane	5.4	U vs	54.1	51.2	vs	ug/Kg	☼	95	76 - 125
Chloroethane	5.4	U vs	54.1	60.6	vs	ug/Kg	☼	112	69 - 135
Chloroform	0.47	J vs	54.1	56.7	vs	ug/Kg	☼	104	80 - 120
Chloromethane	5.4	U vs	54.1	56.8	vs	ug/Kg	☼	105	63 - 127
cis-1,2-Dichloroethene	5.4	U vs	54.1	56.7	vs	ug/Kg	☼	105	80 - 120
cis-1,3-Dichloropropene	5.4	U vs	54.1	52.6	vs	ug/Kg	☼	97	80 - 120
Cyclohexane	5.4	U vs	54.1	45.8	vs	ug/Kg	☼	85	65 - 120
Dichlorodifluoromethane	5.4	U vs	54.1	48.5	vs	ug/Kg	☼	90	57 - 142
Ethylbenzene	0.50	J vs	54.1	50.6	vs	ug/Kg	☼	92	80 - 120
1,2-Dibromoethane	5.4	U F1 vs	54.1	46.8	vs	ug/Kg	☼	87	78 - 120
Isopropylbenzene	5.4	U vs	54.1	52.8	vs	ug/Kg	☼	98	72 - 120
Methyl acetate	27	U F2 vs	108	81.4	vs	ug/Kg	☼	75	55 - 136
Methyl tert-butyl ether	5.4	U vs	54.1	51.8	vs	ug/Kg	☼	96	63 - 125
Methylcyclohexane	5.4	U vs	54.1	38.7	vs	ug/Kg	☼	71	60 - 140
Methylene Chloride	5.4	U vs	54.1	63.5	vs	ug/Kg	☼	117	61 - 127
Styrene	5.4	U F1 vs	54.1	49.3	vs	ug/Kg	☼	91	80 - 120
Tetrachloroethene	5.4	U vs	54.1	49.2	vs	ug/Kg	☼	91	74 - 122
Toluene	1.4	J vs	54.1	53.7	vs	ug/Kg	☼	97	74 - 128
trans-1,2-Dichloroethene	5.4	U vs	54.1	56.2	vs	ug/Kg	☼	104	78 - 126
trans-1,3-Dichloropropene	5.4	U vs	54.1	49.9	vs	ug/Kg	☼	92	73 - 123
Trichloroethene	5.4	U F1 vs	54.1	70.4	F1 vs	ug/Kg	☼	130	77 - 129
Trichlorofluoromethane	5.4	U vs	54.1	54.2	vs	ug/Kg	☼	100	65 - 146
Vinyl chloride	5.4	U vs	54.1	55.2	vs	ug/Kg	☼	102	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 126*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*
Dibromofluoromethane (Surr)	*102*		*60 - 140*

Lab Sample ID: 480-224373-1 MSD
Matrix: Solid
Analysis Batch: 728670

Client Sample ID: R1 MW-3 (2-4')
Prep Type: Total/NA
Prep Batch: 728699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	5.4	U vs	53.9	45.6	vs	ug/Kg	☼	85	77 - 121	17	30
1,1,2,2-Tetrachloroethane	5.4	U F1 F2 vs	53.9	21.1	F1 F2 vs	ug/Kg	☼	39	80 - 120	46	30
1,1,2-Trichloroethane	5.4	U F1 vs	53.9	40.2	F1 vs	ug/Kg	☼	75	78 - 122	20	30
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	53.9	42.8	vs	ug/Kg	☼	79	60 - 140	13	30
1,1-Dichloroethane	5.4	U vs	53.9	49.1	vs	ug/Kg	☼	91	73 - 126	16	30
1,1-Dichloroethene	5.4	U vs	53.9	45.8	vs	ug/Kg	☼	85	59 - 125	17	30
1,2,4-Trichlorobenzene	5.4	U F1 vs	53.9	30.9	F1 vs	ug/Kg	☼	57	64 - 120	10	30
1,2-Dibromo-3-Chloropropane	5.4	U F1 vs	53.9	32.9	F1 vs	ug/Kg	☼	61	63 - 124	20	30
1,2-Dichlorobenzene	5.4	U vs	53.9	40.8	vs	ug/Kg	☼	76	75 - 120	9	30

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

Lab Sample ID: 480-224373-1 MSD
Matrix: Solid
Analysis Batch: 728670

Client Sample ID: R1 MW-3 (2-4')
Prep Type: Total/NA
Prep Batch: 728699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane	5.4	U vs	53.9	43.8	vs	ug/Kg	☼	81	77 - 122	20	30
1,2-Dichloropropane	5.4	U vs	53.9	46.8	vs	ug/Kg	☼	87	75 - 124	19	30
1,3-Dichlorobenzene	5.4	U F1 vs	53.9	39.6	F1 vs	ug/Kg	☼	73	74 - 120	16	30
1,4-Dichlorobenzene	5.4	U F1 vs	53.9	39.0	F1 vs	ug/Kg	☼	72	73 - 120	15	30
2-Butanone (MEK)	6.4	J F1 F2 vs	270	170	F1 F2 vs	ug/Kg	☼	61	70 - 134	31	30
2-Hexanone	27	U vs	270	169	vs	ug/Kg	☼	63	59 - 130	24	30
4-Methyl-2-pentanone (MIBK)	27	U vs	270	183	vs	ug/Kg	☼	68	65 - 133	20	30
Acetone	27	U vs	270	185	vs	ug/Kg	☼	69	61 - 137	20	30
Benzene	5.4	U vs	53.9	47.7	vs	ug/Kg	☼	89	79 - 127	21	30
Bromodichloromethane	5.4	U vs	53.9	46.5	vs	ug/Kg	☼	86	80 - 122	18	30
Bromoform	5.4	U vs	53.9	38.1	vs	ug/Kg	☼	71	68 - 126	14	30
Bromomethane	5.4	U vs	53.9	50.1	vs	ug/Kg	☼	93	37 - 149	17	30
Carbon disulfide	5.4	U vs	53.9	42.9	vs	ug/Kg	☼	80	64 - 131	18	30
Carbon tetrachloride	5.4	U vs	53.9	43.9	vs	ug/Kg	☼	81	75 - 135	16	30
Chlorobenzene	5.4	U vs	53.9	45.0	vs	ug/Kg	☼	83	76 - 124	13	30
Dibromochloromethane	5.4	U vs	53.9	43.6	vs	ug/Kg	☼	81	76 - 125	16	30
Chloroethane	5.4	U vs	53.9	51.7	vs	ug/Kg	☼	96	69 - 135	16	30
Chloroform	0.47	J vs	53.9	47.6	vs	ug/Kg	☼	87	80 - 120	18	30
Chloromethane	5.4	U vs	53.9	47.6	vs	ug/Kg	☼	88	63 - 127	18	30
cis-1,2-Dichloroethene	5.4	U vs	53.9	49.4	vs	ug/Kg	☼	92	80 - 120	14	30
cis-1,3-Dichloropropene	5.4	U vs	53.9	43.8	vs	ug/Kg	☼	81	80 - 120	18	30
Cyclohexane	5.4	U vs	53.9	39.8	vs	ug/Kg	☼	74	65 - 120	14	30
Dichlorodifluoromethane	5.4	U vs	53.9	42.8	vs	ug/Kg	☼	79	57 - 142	13	30
Ethylbenzene	0.50	J vs	53.9	44.2	vs	ug/Kg	☼	81	80 - 120	13	30
1,2-Dibromoethane	5.4	U F1 vs	53.9	39.0	F1 vs	ug/Kg	☼	72	78 - 120	18	30
Isopropylbenzene	5.4	U vs	53.9	44.0	vs	ug/Kg	☼	82	72 - 120	18	30
Methyl acetate	27	U F2 vs	108	59.6	F2 vs	ug/Kg	☼	55	55 - 136	31	30
Methyl tert-butyl ether	5.4	U vs	53.9	44.1	vs	ug/Kg	☼	82	63 - 125	16	30
Methylcyclohexane	5.4	U vs	53.9	35.5	vs	ug/Kg	☼	66	60 - 140	8	30
Methylene Chloride	5.4	U vs	53.9	50.5	vs	ug/Kg	☼	94	61 - 127	23	30
Styrene	5.4	U F1 vs	53.9	42.4	F1 vs	ug/Kg	☼	79	80 - 120	15	30
Tetrachloroethene	5.4	U vs	53.9	41.4	vs	ug/Kg	☼	77	74 - 122	17	30
Toluene	1.4	J vs	53.9	44.8	vs	ug/Kg	☼	81	74 - 128	18	30
trans-1,2-Dichloroethene	5.4	U vs	53.9	47.4	vs	ug/Kg	☼	88	78 - 126	17	30
trans-1,3-Dichloropropene	5.4	U vs	53.9	40.1	vs	ug/Kg	☼	74	73 - 123	22	30
Trichloroethene	5.4	U F1 vs	53.9	65.3	vs	ug/Kg	☼	121	77 - 129	8	30
Trichlorofluoromethane	5.4	U vs	53.9	45.5	vs	ug/Kg	☼	84	65 - 146	17	30
Vinyl chloride	5.4	U vs	53.9	45.2	vs	ug/Kg	☼	84	61 - 133	20	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*86*		*64 - 126*
4-Bromofluorobenzene (Surr)	*94*		*72 - 126*
Dibromofluoromethane (Surr)	*104*		*60 - 140*

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

Lab Sample ID: MB 480-730173/1-A
Matrix: Solid
Analysis Batch: 730201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	55	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2,4,5-Trichlorophenol	170	U	170	46	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2,4,6-Trichlorophenol	170	U	170	34	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2,4-Dichlorophenol	170	U	170	18	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2,4-Dimethylphenol	170	U	170	41	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2,4-Dinitrophenol	1700	U	1700	780	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2,4-Dinitrotoluene	170	U	170	35	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2,6-Dinitrotoluene	170	U	170	20	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2-Chloronaphthalene	170	U	170	28	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2-Chlorophenol	330	U	330	31	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2-Methylnaphthalene	170	U	170	34	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2-Methylphenol	170	U	170	20	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2-Nitroaniline	330	U	330	25	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
2-Nitrophenol	170	U	170	48	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
3,3'-Dichlorobenzidine	330	U	330	200	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
3-Nitroaniline	330	U	330	47	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
4,6-Dinitro-2-methylphenol	330	U	330	170	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
4-Bromophenyl phenyl ether	170	U	170	24	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
4-Chloro-3-methylphenol	170	U	170	42	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
4-Chloroaniline	170	U	170	42	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
4-Chlorophenyl phenyl ether	170	U	170	21	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
4-Methylphenol	330	U	330	20	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
4-Nitroaniline	330	U	330	89	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
4-Nitrophenol	330	U	330	120	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Acenaphthene	170	U	170	25	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Acenaphthylene	170	U	170	22	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Acetophenone	170	U	170	23	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Anthracene	170	U	170	42	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Atrazine	170	U	170	59	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Benzaldehyde	170	U	170	140	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Biphenyl	170	U	170	25	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
bis (2-chloroisopropyl) ether	170	U	170	34	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Bis(2-chloroethoxy)methane	170	U	170	36	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Bis(2-chloroethyl)ether	170	U	170	22	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Bis(2-ethylhexyl) phthalate	170	U	170	58	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Butyl benzyl phthalate	170	U	170	28	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Caprolactam	170	U	170	51	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Carbazole	170	U	170	20	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Chrysene	170	U	170	38	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Dibenzofuran	170	U	170	20	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Diethyl phthalate	170	U	170	22	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Dimethyl phthalate	170	U	170	20	ug/Kg		10/28/24 17:43	10/29/24 10:40	1

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

Lab Sample ID: MB 480-730173/1-A
Matrix: Solid
Analysis Batch: 730201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	170	U	170	29	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Di-n-octyl phthalate	170	U	170	20	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Fluoranthene	170	U	170	18	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Fluorene	170	U	170	20	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Hexachlorobenzene	170	U	170	23	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Hexachlorobutadiene	170	U	170	25	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Hexachlorocyclopentadiene	170	U	170	23	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Hexachloroethane	170	U	170	22	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Isophorone	170	U	170	36	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Naphthalene	170	U	170	22	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Nitrobenzene	170	U	170	19	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
N-Nitrosodi-n-propylamine	170	U	170	29	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
N-Nitrosodiphenylamine	170	U	170	140	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Pentachlorophenol	330	U	330	170	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Phenanthrene	170	U	170	25	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Phenol	170	U	170	26	ug/Kg		10/28/24 17:43	10/29/24 10:40	1
Pyrene	170	U	170	20	ug/Kg		10/28/24 17:43	10/29/24 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*26 - 143*	*10/28/24 17:43*	*10/29/24 10:40*	*1*
2-Fluorobiphenyl (Surr)	*87*		*50 - 121*	*10/28/24 17:43*	*10/29/24 10:40*	*1*
2-Fluorophenol (Surr)	*79*		*36 - 120*	*10/28/24 17:43*	*10/29/24 10:40*	*1*
Nitrobenzene-d5 (Surr)	*87*		*40 - 121*	*10/28/24 17:43*	*10/29/24 10:40*	*1*
Phenol-d5 (Surr)	*82*		*41 - 120*	*10/28/24 17:43*	*10/29/24 10:40*	*1*
p-Terphenyl-d14 (Surr)	*97*		*46 - 143*	*10/28/24 17:43*	*10/29/24 10:40*	*1*

Lab Sample ID: LCS 480-730173/2-A
Matrix: Solid
Analysis Batch: 730201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1330	684		ug/Kg		51	23 - 120
2,4,5-Trichlorophenol	1330	1220		ug/Kg		91	59 - 126
2,4,6-Trichlorophenol	1330	1250		ug/Kg		94	59 - 123
2,4-Dichlorophenol	1330	1240		ug/Kg		93	61 - 120
2,4-Dimethylphenol	1330	1310		ug/Kg		98	59 - 120
2,4-Dinitrophenol	2670	2470		ug/Kg		93	41 - 146
2,4-Dinitrotoluene	1330	1310		ug/Kg		98	63 - 120
2,6-Dinitrotoluene	1330	1260		ug/Kg		94	66 - 120
2-Chloronaphthalene	1330	1180		ug/Kg		89	57 - 120
2-Chlorophenol	1330	1140		ug/Kg		86	53 - 120
2-Methylnaphthalene	1330	1190		ug/Kg		89	59 - 120
2-Methylphenol	1330	1160		ug/Kg		87	54 - 120
2-Nitroaniline	1330	1330		ug/Kg		100	61 - 120
2-Nitrophenol	1330	1220		ug/Kg		91	56 - 120
3,3'-Dichlorobenzidine	1330	916		ug/Kg		69	54 - 120
3-Nitroaniline	1330	961		ug/Kg		72	48 - 120

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

Lab Sample ID: LCS 480-730173/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 730201
Prep Batch: 730173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	2670	2550		ug/Kg		96	49 - 122
4-Bromophenyl phenyl ether	1330	1240		ug/Kg		93	58 - 120
4-Chloro-3-methylphenol	1330	1370		ug/Kg		103	61 - 120
4-Chloroaniline	1330	1090		ug/Kg		82	38 - 120
4-Chlorophenyl phenyl ether	1330	1150		ug/Kg		87	63 - 124
4-Methylphenol	1330	1180		ug/Kg		89	55 - 120
4-Nitroaniline	1330	1160		ug/Kg		87	56 - 120
4-Nitrophenol	2670	2360		ug/Kg		89	43 - 147
Acenaphthene	1330	1230		ug/Kg		92	62 - 120
Acenaphthylene	1330	1310		ug/Kg		99	58 - 121
Acetophenone	1330	1140		ug/Kg		86	54 - 120
Anthracene	1330	1330		ug/Kg		100	62 - 120
Atrazine	1330	1140		ug/Kg		86	60 - 127
Benzaldehyde	1330	1110		ug/Kg		83	10 - 150
Benzo[a]anthracene	1330	1330		ug/Kg		99	65 - 120
Benzo[a]pyrene	1330	1290		ug/Kg		97	64 - 120
Benzo[b]fluoranthene	1330	1260		ug/Kg		95	64 - 120
Benzo[g,h,i]perylene	1330	1330		ug/Kg		100	45 - 145
Benzo[k]fluoranthene	1330	1320		ug/Kg		99	65 - 120
Biphenyl	1330	1190		ug/Kg		89	59 - 120
bis (2-chloroisopropyl) ether	1330	1070		ug/Kg		81	44 - 120
Bis(2-chloroethoxy)methane	1330	1190		ug/Kg		90	55 - 120
Bis(2-chloroethyl)ether	1330	1140		ug/Kg		86	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1680		ug/Kg		126	61 - 133
Butyl benzyl phthalate	1330	1660		ug/Kg		124	61 - 129
Caprolactam	1330	1240		ug/Kg		93	47 - 120
Carbazole	1330	1270		ug/Kg		95	65 - 120
Chrysene	1330	1320		ug/Kg		99	64 - 120
Dibenz(a,h)anthracene	1330	1320		ug/Kg		99	54 - 132
Dibenzofuran	1330	1180		ug/Kg		89	63 - 120
Diethyl phthalate	1330	1260		ug/Kg		94	66 - 120
Dimethyl phthalate	1330	1220		ug/Kg		91	65 - 124
Di-n-butyl phthalate	1330	1370		ug/Kg		103	58 - 130
Di-n-octyl phthalate	1330	1690		ug/Kg		127	57 - 133
Fluoranthene	1330	1180		ug/Kg		89	62 - 120
Fluorene	1330	1220		ug/Kg		91	63 - 120
Hexachlorobenzene	1330	1120		ug/Kg		84	60 - 120
Hexachlorobutadiene	1330	1050		ug/Kg		79	45 - 120
Hexachlorocyclopentadiene	1330	1080		ug/Kg		81	47 - 120
Hexachloroethane	1330	1020		ug/Kg		77	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1270		ug/Kg		95	56 - 134
Isophorone	1330	1310		ug/Kg		98	56 - 120
Naphthalene	1330	1180		ug/Kg		89	55 - 120
Nitrobenzene	1330	1220		ug/Kg		91	54 - 120
N-Nitrosodi-n-propylamine	1330	1180		ug/Kg		88	52 - 120
N-Nitrosodiphenylamine	1330	1390		ug/Kg		104	51 - 128
Pentachlorophenol	2670	2290		ug/Kg		86	10 - 120
Phenanthrene	1330	1310		ug/Kg		98	60 - 120
Phenol	1330	1130		ug/Kg		85	53 - 120

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

Lab Sample ID: LCS 480-730173/2-A
Matrix: Solid
Analysis Batch: 730201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730173

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Pyrene			1330	1500		ug/Kg		112	61 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*26 - 143*
2-Fluorobiphenyl (Surr)	*90*		*50 - 121*
2-Fluorophenol (Surr)	*82*		*36 - 120*
Nitrobenzene-d5 (Surr)	*89*		*40 - 121*
Phenol-d5 (Surr)	*84*		*41 - 120*
p-Terphenyl-d14 (Surr)	*103*		*46 - 143*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-730175/1-A
Matrix: Solid
Analysis Batch: 730189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730175

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.7	U	1.7	0.32	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
4,4'-DDE	1.7	U	1.7	0.35	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
4,4'-DDT	1.7	U	1.7	0.39	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
Aldrin	1.7	U	1.7	0.41	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
alpha-BHC	1.7	U	1.7	0.30	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
beta-BHC	1.7	U	1.7	0.30	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
Chlordane (.alpha.)	1.7	U	1.7	0.83	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
delta-BHC	1.7	U	1.7	0.31	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
Dieldrin	1.7	U	1.7	0.40	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
Endosulfan I	1.7	U	1.7	0.32	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
Endosulfan II	1.7	U	1.7	0.30	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
Endosulfan sulfate	1.7	U	1.7	0.31	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
Endrin	1.7	U	1.7	0.33	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
Heptachlor	1.7	U	1.7	0.36	ug/Kg		10/28/24 18:02	10/29/24 13:42	1
Lindane	1.7	U	1.7	0.31	ug/Kg		10/28/24 18:02	10/29/24 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*45 - 120*	*10/28/24 18:02*	*10/29/24 13:42*	*1*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*10/28/24 18:02*	*10/29/24 13:42*	*1*
Tetrachloro-m-xylene	*60*		*30 - 124*	*10/28/24 18:02*	*10/29/24 13:42*	*1*
Tetrachloro-m-xylene	*66*		*30 - 124*	*10/28/24 18:02*	*10/29/24 13:42*	*1*

Lab Sample ID: LCS 480-730175/2-A
Matrix: Solid
Analysis Batch: 730189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730175

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			16.7	12.4		ug/Kg		74	56 - 120		
4,4'-DDE			16.7	9.57		ug/Kg		57	44 - 120		
4,4'-DDT			16.7	13.2		ug/Kg		79	38 - 120		
Aldrin			16.7	9.77		ug/Kg		59	38 - 120		

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

Lab Sample ID: LCS 480-730175/2-A
Matrix: Solid
Analysis Batch: 730189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730175

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	16.7	9.14		ug/Kg		55	39 - 120
beta-BHC	16.7	10.3		ug/Kg		62	40 - 120
Chlordane (.alpha.)	16.7	9.70		ug/Kg		58	47 - 120
delta-BHC	16.7	9.40		ug/Kg		56	45 - 120
Dieldrin	16.7	13.4		ug/Kg		80	58 - 120
Endosulfan I	16.7	11.2		ug/Kg		67	49 - 120
Endosulfan II	16.7	13.6		ug/Kg		81	55 - 120
Endosulfan sulfate	16.7	13.7		ug/Kg		82	49 - 124
Endrin	16.7	13.4		ug/Kg		80	58 - 120
Heptachlor	16.7	11.3		ug/Kg		68	50 - 120
Lindane	16.7	9.58		ug/Kg		57	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*59*		*45 - 120*
DCB Decachlorobiphenyl	*83*		*45 - 120*
Tetrachloro-m-xylene	*58*		*30 - 124*
Tetrachloro-m-xylene	*63*		*30 - 124*

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

Lab Sample ID: MB 480-729216/1-A
Matrix: Solid
Analysis Batch: 729232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.25	U	0.25	0.049	mg/Kg		10/21/24 17:40	10/22/24 11:03	1
PCB-1221	0.25	U	0.25	0.049	mg/Kg		10/21/24 17:40	10/22/24 11:03	1
PCB-1232	0.25	U	0.25	0.049	mg/Kg		10/21/24 17:40	10/22/24 11:03	1
PCB-1242	0.25	U	0.25	0.049	mg/Kg		10/21/24 17:40	10/22/24 11:03	1
PCB-1248	0.25	U	0.25	0.049	mg/Kg		10/21/24 17:40	10/22/24 11:03	1
PCB-1254	0.25	U	0.25	0.12	mg/Kg		10/21/24 17:40	10/22/24 11:03	1
PCB-1260	0.25	U	0.25	0.12	mg/Kg		10/21/24 17:40	10/22/24 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*122*		*60 - 154*	*10/21/24 17:40*	*10/22/24 11:03*	*1*
Tetrachloro-m-xylene	*91*		*60 - 154*	*10/21/24 17:40*	*10/22/24 11:03*	*1*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*10/21/24 17:40*	*10/22/24 11:03*	*1*
DCB Decachlorobiphenyl	*106*		*65 - 174*	*10/21/24 17:40*	*10/22/24 11:03*	*1*

Lab Sample ID: LCS 480-729216/2-A
Matrix: Solid
Analysis Batch: 729232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.50	2.82		mg/Kg		113	51 - 185
PCB-1260	2.50	3.20		mg/Kg		128	61 - 184

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

Lab Sample ID: LCS 480-729216/2-A
Matrix: Solid
Analysis Batch: 729232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729216

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*137*		*60 - 154*
Tetrachloro-m-xylene	*106*		*60 - 154*
DCB Decachlorobiphenyl	*123*		*65 - 174*
DCB Decachlorobiphenyl	*109*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-730177/1-A
Matrix: Solid
Analysis Batch: 730374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.0	ug/Kg		10/28/24 18:12	10/30/24 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*80*		*28 - 129*	*10/28/24 18:12*	*10/30/24 12:07*	*1*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*10/28/24 18:12*	*10/30/24 12:07*	*1*

Lab Sample ID: LCS 480-730177/2-A
Matrix: Solid
Analysis Batch: 730374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730177

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)			66.7	48.7		ug/Kg		73	39 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*

Lab Sample ID: LCSD 480-730177/3-A
Matrix: Solid
Analysis Batch: 730374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 730177

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP (Silvex)			66.7	49.1		ug/Kg		74	39 - 125	1	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-631678/1-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 631678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-631678/1-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 631678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.10	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.0	U	2.0	0.50	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0	U	2.0	0.50	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.10	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.10	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.10	ug/Kg		10/21/24 10:05	10/22/24 00:41	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-631678/1-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 631678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	1.0	0.25	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.10	ug/Kg		10/21/24 10:05	10/22/24 00:41	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96.1*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C5 PFPeA	*86.5*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C5 PFHxA	*95.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C4 PFHpA	*93.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C8 PFOA	*87.5*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C9 PFNA	*104*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C6 PFDA	*100*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C7 PFUnA	*88.7*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C2 PFTeDA	*58.3*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C3 PFBS	*102*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C3 PFHxS	*87.6*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C8 PFOS	*93.5*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C8 PFOSA	*93.0*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
d3-NMeFOSAA	*97.1*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
d5-NEtFOSAA	*95.5*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
M2-4:2 FTS	*136*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
M2-6:2 FTS	*148*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
M2-8:2 FTS	*149*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C3 HFPO-DA	*96.3*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
d7-N-MeFOSE-M	*78.6*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
d9-N-EtFOSE-M	*71.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
d5-NEtPFOSA	*70.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
D3-NMeFOSA	*65.2*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C2-PFDoDA	*78.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*

Lab Sample ID: LCS 240-631678/3-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	10.0	10.0		ug/Kg		100	40 - 150
Perfluoropentanoic acid (PFPeA)	5.00	5.49		ug/Kg		110	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.62		ug/Kg		105	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.53		ug/Kg		101	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.65		ug/Kg		106	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.64		ug/Kg		105	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	2.72		ug/Kg		109	40 - 150
Perfluoroundecanoic acid (PFUnA)	2.50	2.76		ug/Kg		110	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-631678/3-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid (PFDoA)	2.50	2.74		ug/Kg		110	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.85		ug/Kg		114	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	3.44		ug/Kg		137	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.21	2.19		ug/Kg		99	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.61		ug/Kg		111	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.60		ug/Kg		114	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.38	2.46		ug/Kg		103	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.32	2.28		ug/Kg		98	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	2.39		ug/Kg		100	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	2.08		ug/Kg		86	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	9.10		ug/Kg		97	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	8.55		ug/Kg		90	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	8.65		ug/Kg		90	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.70		ug/Kg		108	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.64		ug/Kg		106	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.46		ug/Kg		98	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.73		ug/Kg		109	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.50		ug/Kg		100	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	22.8		ug/Kg		91	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	25.1		ug/Kg		101	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	9.64		ug/Kg		96	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	10.4		ug/Kg		111	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.00	4.93		ug/Kg		99	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.00	4.72		ug/Kg		94	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.32	9.95		ug/Kg		107	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	9.42	9.37		ug/Kg		99	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.45	4.65		ug/Kg		105	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-631678/3-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA)	12.5	11.3		ug/Kg		91	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	62.5	47.4		ug/Kg		76	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	62.5	54.1		ug/Kg		87	40 - 150
Perfluorodecanesulfonic acid (PFDS)	2.41	2.50		ug/Kg		104	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.00	5.15		ug/Kg		103	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*87.9*		*20 - 150*
13C5 PFPeA	*77.8*		*20 - 150*
13C5 PFHxA	*81.4*		*20 - 150*
13C4 PFHpA	*83.8*		*20 - 150*
13C8 PFOA	*77.9*		*20 - 150*
13C9 PFNA	*85.1*		*20 - 150*
13C6 PFDA	*85.3*		*20 - 150*
13C7 PFUnA	*79.8*		*20 - 150*
13C2 PFTeDA	*54.9*		*20 - 150*
13C3 PFBS	*89.9*		*20 - 150*
13C3 PFHxS	*80.9*		*20 - 150*
13C8 PFOS	*84.9*		*20 - 150*
13C8 PFOSA	*78.4*		*20 - 150*
d3-NMeFOSAA	*89.8*		*20 - 150*
d5-NEtFOSAA	*88.0*		*20 - 150*
M2-4:2 FTS	*119*		*20 - 150*
M2-6:2 FTS	*136*		*20 - 150*
M2-8:2 FTS	*128*		*20 - 150*
13C3 HFPO-DA	*79.3*		*20 - 150*
d7-N-MeFOSE-M	*67.9*		*20 - 150*
d9-N-EtFOSE-M	*61.1*		*20 - 150*
d5-NEtPFOSA	*61.6*		*20 - 150*
D3-NMeFOSA	*58.2*		*20 - 150*
13C2-PFDoDA	*76.5*		*20 - 150*

Lab Sample ID: LLCS 240-631678/2-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631678

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	0.805		ug/Kg		101	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.439		ug/Kg		110	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.194	J	ug/Kg		97	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.205		ug/Kg		103	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.218		ug/Kg		109	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.210		ug/Kg		105	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.199	J	ug/Kg		99	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-631678/2-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631678

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	0.200	0.215		ug/Kg		107	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.218		ug/Kg		109	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.227		ug/Kg		113	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.255		ug/Kg		127	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.173	J	ug/Kg		98	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.198	J	ug/Kg		106	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.204		ug/Kg		112	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.208		ug/Kg		109	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.186	0.183	J	ug/Kg		98	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.192	0.196	J	ug/Kg		102	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.158	J	ug/Kg		82	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.721	J	ug/Kg		96	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.699	J	ug/Kg		92	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.652	J	ug/Kg		85	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.219		ug/Kg		109	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.219		ug/Kg		110	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.190	J	ug/Kg		95	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.218		ug/Kg		109	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.181	J	ug/Kg		91	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.13		ug/Kg		107	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	1.94	J	ug/Kg		97	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	0.768	J	ug/Kg		96	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.810		ug/Kg		107	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.400	0.396	J	ug/Kg		99	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.400	0.381	J	ug/Kg		95	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.746	0.612	J	ug/Kg		82	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.754	0.542	J	ug/Kg		72	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-631678/2-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631678

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.356	0.335	J	ug/Kg		94	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.00	0.884	J	ug/Kg		88	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.00	3.81	J	ug/Kg		76	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.00	4.37	J	ug/Kg		87	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.193	0.190	J	ug/Kg		99	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.400	0.415		ug/Kg		104	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*92.5*		*20 - 150*
13C5 PFPeA	*83.0*		*20 - 150*
13C5 PFHxA	*87.7*		*20 - 150*
13C4 PFHpA	*88.5*		*20 - 150*
13C8 PFOA	*78.5*		*20 - 150*
13C9 PFNA	*93.2*		*20 - 150*
13C6 PFDA	*93.6*		*20 - 150*
13C7 PFUnA	*85.0*		*20 - 150*
13C2 PFTeDA	*55.2*		*20 - 150*
13C3 PFBS	*96.3*		*20 - 150*
13C3 PFHxS	*87.3*		*20 - 150*
13C8 PFOS	*85.1*		*20 - 150*
13C8 PFOSA	*81.6*		*20 - 150*
d3-NMeFOSAA	*92.0*		*20 - 150*
d5-NEtFOSAA	*87.7*		*20 - 150*
M2-4:2 FTS	*133*		*20 - 150*
M2-6:2 FTS	*141*		*20 - 150*
M2-8:2 FTS	*144*		*20 - 150*
13C3 HFPO-DA	*90.1*		*20 - 150*
d7-N-MeFOSE-M	*69.0*		*20 - 150*
d9-N-EtFOSE-M	*65.3*		*20 - 150*
d5-NEtPFOSA	*65.5*		*20 - 150*
D3-NMeFOSA	*59.3*		*20 - 150*
13C2-PFDoDA	*76.1*		*20 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-728533/1-A
Matrix: Solid
Analysis Batch: 728697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10.2	U	10.2	8.8	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Antimony	15.3	U	15.3	0.54	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Arsenic	2.0	U	2.0	0.90	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Barium	0.51	U	0.51	0.14	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Beryllium	0.20	U	0.20	0.041	mg/Kg		10/16/24 14:44	10/17/24 12:14	1

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

Lab Sample ID: MB 480-728533/1-A
Matrix: Solid
Analysis Batch: 728697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.20	U	0.20	0.071	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Calcium	50.9	U	50.9	27.5	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Chromium	0.51	U	0.51	0.37	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Cobalt	0.51	U	0.51	0.10	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Copper	1.0	U	1.0	0.58	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Iron	10.2	U	10.2	8.6	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Lead	1.0	U	1.0	0.47	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Magnesium	20.4	U	20.4	8.6	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Manganese	1.0	U	1.0	0.29	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Nickel	5.1	U	5.1	0.25	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Potassium	30.6	U	30.6	24.7	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Selenium	4.1	U	4.1	0.81	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Silver	0.61	U	0.61	0.20	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Sodium	143	U	143	62.4	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Thallium	6.1	U	6.1	0.77	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Vanadium	0.51	U	0.51	0.13	mg/Kg		10/16/24 14:44	10/17/24 12:14	1
Zinc	2.0	U	2.0	1.0	mg/Kg		10/16/24 14:44	10/17/24 12:14	1

Lab Sample ID: LCSSRM 480-728533/2-A
Matrix: Solid
Analysis Batch: 728697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728533

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6780	6743		mg/Kg		99.5	47.8 - 151.9
Antimony	127	78.31		mg/Kg		61.7	20.2 - 250.4
Arsenic	311	261.3		mg/Kg		84.0	70.1 - 130.2
Barium	304	253.6		mg/Kg		83.4	75.0 - 125.0
Beryllium	169	144.4		mg/Kg		85.4	75.1 - 124.9
Cadmium	212	177.2		mg/Kg		83.6	75.0 - 125.0
Calcium	5170	4420		mg/Kg		85.5	72.9 - 126.9
Chromium	180	156.9		mg/Kg		87.2	70.0 - 130.0
Cobalt	81.6	76.73		mg/Kg		94.0	75.0 - 125.0
Copper	205	173.8		mg/Kg		84.8	75.1 - 124.9
Iron	6510	5814		mg/Kg		89.3	11.3 - 202.8
Lead	92.8	87.57		mg/Kg		94.4	81.8 - 118.5
Magnesium	1700	1460		mg/Kg		85.9	55.6 - 144.1
Manganese	531	449.7		mg/Kg		84.7	77.2 - 122.8
Nickel	313	303.9		mg/Kg		97.1	70.0 - 130.0

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

Lab Sample ID: LCSSRM 480-728533/2-A
Matrix: Solid
Analysis Batch: 728697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728533

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	1370	1298		mg/Kg		94.8	52.0 - 148.2
Selenium	165	129.4		mg/Kg		78.4	67.9 - 132.1
Silver	82.4	68.55		mg/Kg		83.2	71.0 - 128.6
Sodium	486	425.0		mg/Kg		87.4	59.5 - 140.5
Thallium	205	190.9		mg/Kg		93.1	72.2 - 128.3
Vanadium	103	92.15		mg/Kg		89.5	68.0 - 132.0
Zinc	166	145.2		mg/Kg		87.5	70.5 - 130.1

Lab Sample ID: 480-224373-1 MS
Matrix: Solid
Analysis Batch: 728697

Client Sample ID: R1 MW-3 (2-4')
Prep Type: Total/NA
Prep Batch: 728533

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	8190	F2	1070	10950	4	mg/Kg	☼	258	75 - 125
Antimony	16.4	U F1	105	63.67	F1	mg/Kg	☼	61	75 - 125
Arsenic	4.9		210	179.8		mg/Kg	☼	83	75 - 125
Barium	161	F1 F2	210	369.5		mg/Kg	☼	99	75 - 125
Beryllium	0.39		105	89.79		mg/Kg	☼	85	75 - 125
Cadmium	0.79		105	93.90		mg/Kg	☼	89	75 - 125
Calcium	68800	F2	5250	95160	E 4	mg/Kg	☼	503	75 - 125
Chromium	11.4		105	97.93		mg/Kg	☼	82	75 - 125
Cobalt	4.6		105	105.2		mg/Kg	☼	96	75 - 125
Copper	30.6		105	125.8		mg/Kg	☼	91	75 - 125
Iron	11600		1070	12390	4	mg/Kg	☼	72	75 - 125
Lead	144	F1 F2	105	292.0	F1	mg/Kg	☼	141	75 - 125
Magnesium	23200	F2	5250	34070	4	mg/Kg	☼	206	75 - 125
Manganese	405	F1	105	479.9	F1	mg/Kg	☼	72	75 - 125
Nickel	13.3		105	114.8		mg/Kg	☼	97	75 - 125
Potassium	1890		5250	7580		mg/Kg	☼	108	75 - 125
Selenium	4.4	U F1	210	165.7		mg/Kg	☼	79	75 - 125
Silver	0.66	U	10.5	9.29		mg/Kg	☼	89	75 - 125
Sodium	467		5250	5341		mg/Kg	☼	93	75 - 125
Thallium	6.6	U	210	203.9		mg/Kg	☼	97	75 - 125
Vanadium	17.4		105	108.2		mg/Kg	☼	87	75 - 125
Zinc	229	F1 F2	105	325.2		mg/Kg	☼	91	75 - 125

Lab Sample ID: 480-224373-1 MSD
Matrix: Solid
Analysis Batch: 728697

Client Sample ID: R1 MW-3 (2-4')
Prep Type: Total/NA
Prep Batch: 728533

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	8190	F2	1080	8896	4 F2	mg/Kg	☼	66	75 - 125	21	20
Antimony	16.4	U F1	106	63.51	F1	mg/Kg	☼	60	75 - 125	0	20
Arsenic	4.9		212	169.1		mg/Kg	☼	77	75 - 125	6	20

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

Lab Sample ID: 480-224373-1 MSD — **Client Sample ID: R1 MW-3 (2-4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 728697 — **Prep Batch: 728533**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	161	F1 F2	212	299.5	F1 F2	mg/Kg	☼	65	75 - 125	21	20
Beryllium	0.39		106	84.66		mg/Kg	☼	79	75 - 125	6	20
Cadmium	0.79		106	88.41		mg/Kg	☼	83	75 - 125	6	20
Calcium	68800	F2	5310	66280	4 F2	mg/Kg	☼	-47	75 - 125	36	20
Chromium	11.4		106	90.85		mg/Kg	☼	75	75 - 125	8	20
Cobalt	4.6		106	97.42		mg/Kg	☼	87	75 - 125	8	20
Copper	30.6		106	114.7		mg/Kg	☼	79	75 - 125	9	20
Iron	11600		1080	10300	4	mg/Kg	☼	-122	75 - 125	18	20
Lead	144	F1 F2	106	227.3	F2	mg/Kg	☼	79	75 - 125	25	20
Magnesium	23200	F2	5310	23860	4 F2	mg/Kg	☼	12	75 - 125	35	20
Manganese	405	F1	106	455.4	F1	mg/Kg	☼	48	75 - 125	5	20
Nickel	13.3		106	108.3		mg/Kg	☼	89	75 - 125	6	20
Potassium	1890		5310	6569		mg/Kg	☼	88	75 - 125	14	20
Selenium	4.4	U F1	212	156.0	F1	mg/Kg	☼	73	75 - 125	6	20
Silver	0.66	U	10.6	8.61		mg/Kg	☼	81	75 - 125	8	20
Sodium	467		5310	4958		mg/Kg	☼	85	75 - 125	7	20
Thallium	6.6	U	212	189.2		mg/Kg	☼	89	75 - 125	7	20
Vanadium	17.4		106	110.5		mg/Kg	☼	88	75 - 125	2	20
Zinc	229	F1 F2	106	579.7	F1 F2	mg/Kg	☼	330	75 - 125	56	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-728570/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 728726 — **Prep Batch: 728570**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0045	mg/Kg		10/17/24 08:42	10/17/24 13:52	1

Lab Sample ID: LCSSRM 480-728570/2-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 728726 — **Prep Batch: 728570**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	11.9	11.82		mg/Kg		99.3	59.8 - 139.5

Lab Sample ID: 480-224373-1 MS — **Client Sample ID: R1 MW-3 (2-4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 728726 — **Prep Batch: 728570**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.087		0.374	0.459		mg/Kg	☼	99	80 - 120

Lab Sample ID: 480-224373-1 MSD — **Client Sample ID: R1 MW-3 (2-4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 728726 — **Prep Batch: 728570**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.087		0.373	0.450		mg/Kg	☼	97	80 - 120	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-1003494/1-A
Matrix: Solid
Analysis Batch: 1003529

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1003494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		10/25/24 09:00	10/25/24 12:00	1

Lab Sample ID: LCSI 460-1003494/3-A
Matrix: Solid
Analysis Batch: 1003529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1003494

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	681.7		mg/Kg		96	80 - 120

Lab Sample ID: LCSSRM 460-1003494/2-A
Matrix: Solid
Analysis Batch: 1003529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1003494

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	14.9	13.41		mg/Kg		89.7	84.2 - 114.5

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-729538/1-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.94	U	0.94	0.46	mg/Kg		10/23/24 13:58	10/23/24 19:33	1

Lab Sample ID: LCS 480-729538/3-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.408		mg/Kg		102	29 - 122

Lab Sample ID: LCS 480-729538/4-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.261		mg/Kg		104	29 - 122

Lab Sample ID: LCSSRM 480-729538/2-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	115.3		mg/Kg		76.8	38.9 - 138.7

GC/MS VOA

Analysis Batch: 728670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	8260C	728699
MB 480-728699/2-A	Method Blank	Total/NA	Solid	8260C	728699
LCS 480-728699/1-A	Lab Control Sample	Total/NA	Solid	8260C	728699
480-224373-1 MS	R1 MW-3 (2-4')	Total/NA	Solid	8260C	728699
480-224373-1 MSD	R1 MW-3 (2-4')	Total/NA	Solid	8260C	728699

Prep Batch: 728699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	5035A_L	
MB 480-728699/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-728699/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-224373-1 MS	R1 MW-3 (2-4')	Total/NA	Solid	5035A_L	
480-224373-1 MSD	R1 MW-3 (2-4')	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 730173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	3550C	
MB 480-730173/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-730173/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 730201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	8270D	730173
MB 480-730173/1-A	Method Blank	Total/NA	Solid	8270D	730173
LCS 480-730173/2-A	Lab Control Sample	Total/NA	Solid	8270D	730173

GC Semi VOA

Prep Batch: 729216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	3550C	
MB 480-729216/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-729216/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 729232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	8082A	729216
MB 480-729216/1-A	Method Blank	Total/NA	Solid	8082A	729216
LCS 480-729216/2-A	Lab Control Sample	Total/NA	Solid	8082A	729216

Prep Batch: 730175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	3550C	
MB 480-730175/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-730175/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 730177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	8151A	
MB 480-730177/1-A	Method Blank	Total/NA	Solid	8151A	

GC Semi VOA (Continued)

Prep Batch: 730177 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-730177/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-730177/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Analysis Batch: 730189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	8081B	730175
MB 480-730175/1-A	Method Blank	Total/NA	Solid	8081B	730175
LCS 480-730175/2-A	Lab Control Sample	Total/NA	Solid	8081B	730175

Analysis Batch: 730374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	8151A	730177
MB 480-730177/1-A	Method Blank	Total/NA	Solid	8151A	730177
LCS 480-730177/2-A	Lab Control Sample	Total/NA	Solid	8151A	730177
LCSD 480-730177/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	730177

LCMS

Prep Batch: 631678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	1633 Shake	
MB 240-631678/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-631678/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-631678/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 631763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	Draft-3 1633	631678
MB 240-631678/1-A	Method Blank	Total/NA	Solid	Draft-3 1633	631678
LCS 240-631678/3-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	631678
LLCS 240-631678/2-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	631678

Metals

Prep Batch: 728533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	3050B	
MB 480-728533/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-728533/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-224373-1 MS	R1 MW-3 (2-4')	Total/NA	Solid	3050B	
480-224373-1 MSD	R1 MW-3 (2-4')	Total/NA	Solid	3050B	

Prep Batch: 728570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	7471B	
MB 480-728570/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-728570/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-224373-1 MS	R1 MW-3 (2-4')	Total/NA	Solid	7471B	
480-224373-1 MSD	R1 MW-3 (2-4')	Total/NA	Solid	7471B	

Metals

Analysis Batch: 728697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	6010C	728533
MB 480-728533/1-A	Method Blank	Total/NA	Solid	6010C	728533
LCSSRM 480-728533/2-A	Lab Control Sample	Total/NA	Solid	6010C	728533
480-224373-1 MS	R1 MW-3 (2-4')	Total/NA	Solid	6010C	728533
480-224373-1 MSD	R1 MW-3 (2-4')	Total/NA	Solid	6010C	728533

Analysis Batch: 728726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	7471B	728570
MB 480-728570/1-A	Method Blank	Total/NA	Solid	7471B	728570
LCSSRM 480-728570/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	728570
480-224373-1 MS	R1 MW-3 (2-4')	Total/NA	Solid	7471B	728570
480-224373-1 MSD	R1 MW-3 (2-4')	Total/NA	Solid	7471B	728570

General Chemistry

Analysis Batch: 728720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	Moisture	

Prep Batch: 729538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	9012B	
MB 480-729538/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-729538/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-729538/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-729538/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 729607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	9012B	729538
MB 480-729538/1-A	Method Blank	Total/NA	Solid	9012B	729538
LCS 480-729538/3-A	Lab Control Sample	Total/NA	Solid	9012B	729538
LCS 480-729538/4-A	Lab Control Sample	Total/NA	Solid	9012B	729538
LCSSRM 480-729538/2-A	Lab Control Sample	Total/NA	Solid	9012B	729538

Prep Batch: 1003494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	3060A	
MB 460-1003494/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-1003494/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-1003494/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 1003529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224373-1	R1 MW-3 (2-4')	Total/NA	Solid	7196A	1003494
MB 460-1003494/1-A	Method Blank	Total/NA	Solid	7196A	1003494
LCSI 460-1003494/3-A	Lab Control Sample	Total/NA	Solid	7196A	1003494
LCSSRM 460-1003494/2-A	Lab Control Sample	Total/NA	Solid	7196A	1003494

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224373-1
Project/Site: The Nest Site Analysis

Client Sample ID: R1 MW-3 (2-4')
Lab Sample ID: 480-224373-1
Date Collected: 10/15/24 15:30
Matrix: Solid
Date Received: 10/15/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	728720	MAN	EET BUF	10/17/24 14:06

Client Sample ID: R1 MW-3 (2-4')
Lab Sample ID: 480-224373-1
Date Collected: 10/15/24 15:30
Matrix: Solid
Date Received: 10/15/24 16:35
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			728699	LCH	EET BUF	10/17/24 13:09
Total/NA	Analysis	8260C		1	728670	LCH	EET BUF	10/17/24 15:29
Total/NA	Prep	3550C			730173	SJM	EET BUF	10/28/24 17:43
Total/NA	Analysis	8270D		5	730201	JMM	EET BUF	10/29/24 11:34
Total/NA	Prep	3550C			730175	SJM	EET BUF	10/28/24 18:02
Total/NA	Analysis	8081B		20	730189	JLS	EET BUF	10/29/24 16:19
Total/NA	Prep	3550C			729216	SJM	EET BUF	10/21/24 17:40
Total/NA	Analysis	8082A		1	729232	W1T	EET BUF	10/22/24 18:38
Total/NA	Prep	8151A			730177	SJM	EET BUF	10/28/24 18:12
Total/NA	Analysis	8151A		1	730374	MAN	EET BUF	10/30/24 13:00
Total/NA	Prep	1633 Shake			631678	CLB	EET CLE	10/21/24 10:05
Total/NA	Analysis	Draft-3 1633		1	631763	LD	EET CLE	10/22/24 01:22
Total/NA	Prep	3050B			728533	EMO	EET BUF	10/16/24 14:44
Total/NA	Analysis	6010C		1	728697	BMB	EET BUF	10/17/24 12:18
Total/NA	Prep	7471B			728570	ESB	EET BUF	10/17/24 08:42
Total/NA	Analysis	7471B		1	728726	ESB	EET BUF	10/17/24 13:59
Total/NA	Prep	3060A			1003494	MNP	EET EDI	10/25/24 09:00 - 10/25/24 10:00 [1]
Total/NA	Analysis	7196A		1	1003529	MNP	EET EDI	10/25/24 13:40
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:41

[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
EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224373-1
Project/Site: The Nest Site Analysis

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
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
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
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	12-31-24

Laboratory: Eurofins Edison

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-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	04-01-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-31-24
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224373-1
Project/Site: The Nest Site Analysis

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
Draft-3 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
7196A	Chromium, Hexavalent	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET EDI
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
9012B	Cyanide, Total and/or Amenable, Distillation	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

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224373-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224373-1	R1 MW-3 (2-4')	Solid	10/15/24 15:30	10/15/24 16:35

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Syracuse #225

Client Information

Client Contact: Jacob Cox	Sampler: Jacob Cox	Lab PM: Beninati, John	Carrier Tracking No(s):
Company: Brydges Engineering in Environment & Energy DPC	Phone: 716 418 0192	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:
Address: 960 Busti Ave Suite B-150	PWSID:	Due Date Requested:	
City: Buffalo		TAT Requested (days): Standard	
State, Zip: NY, 14213		Compliance Project: Δ Yes Δ No	
Phone: 716 418 0192		PO #: Purchase Order not required	
Email: jcox@be3corp.com		WO #:	
Project Name: The Nest Site Analysis - Soil		Project #: 48028073	
Site: THE NEST		SSOW#:	

COC No: 480-199807-41205.1
Page: Page 1 of 3
Job #:

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 - TCL VOCs + TICs	6010C, 7471B, 8081B, 8082A, 8151A, 8270D	1633_Final - 1633 Standard List 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
RI MW-3 (2-4')	10/15	15 30	G	Solid			X	X	X		
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

480-224373 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

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: 10/15/24 @4:35PM	Company: BE3	Received by: LC	Date/Time: 10/15/24 16:35	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by: no	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.6.2 ICE IR# 5C

Ver: 05/06/2024

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	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-89886.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Beninati@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 #: 480-224373-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/28/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: The Nest Site Analysis	Project #: 48028073			
Site:	SSOW#:			Other

Analysis Requested

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_Final/1633_Shake 1633 Standard List 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						PFAS - 90.90
R1 MW-3 2-4 (480-224373-1)	10/15/24	15:30 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
[signature]	10-16-24 1600		JESSICA RIGDON	10-17-24 1000	ET NE
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: 05/06/2024

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Buffalo Site Name

Cooler unpacked by: JESSICA RIGDON

Cooler Received on 10 17 24 Opened on 10-17-24

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 # 17 (CF +0.1 °C) Observed Cooler Temp. 4.3 °C Corrected Cooler Temp. 4.4 °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# HC447997
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:

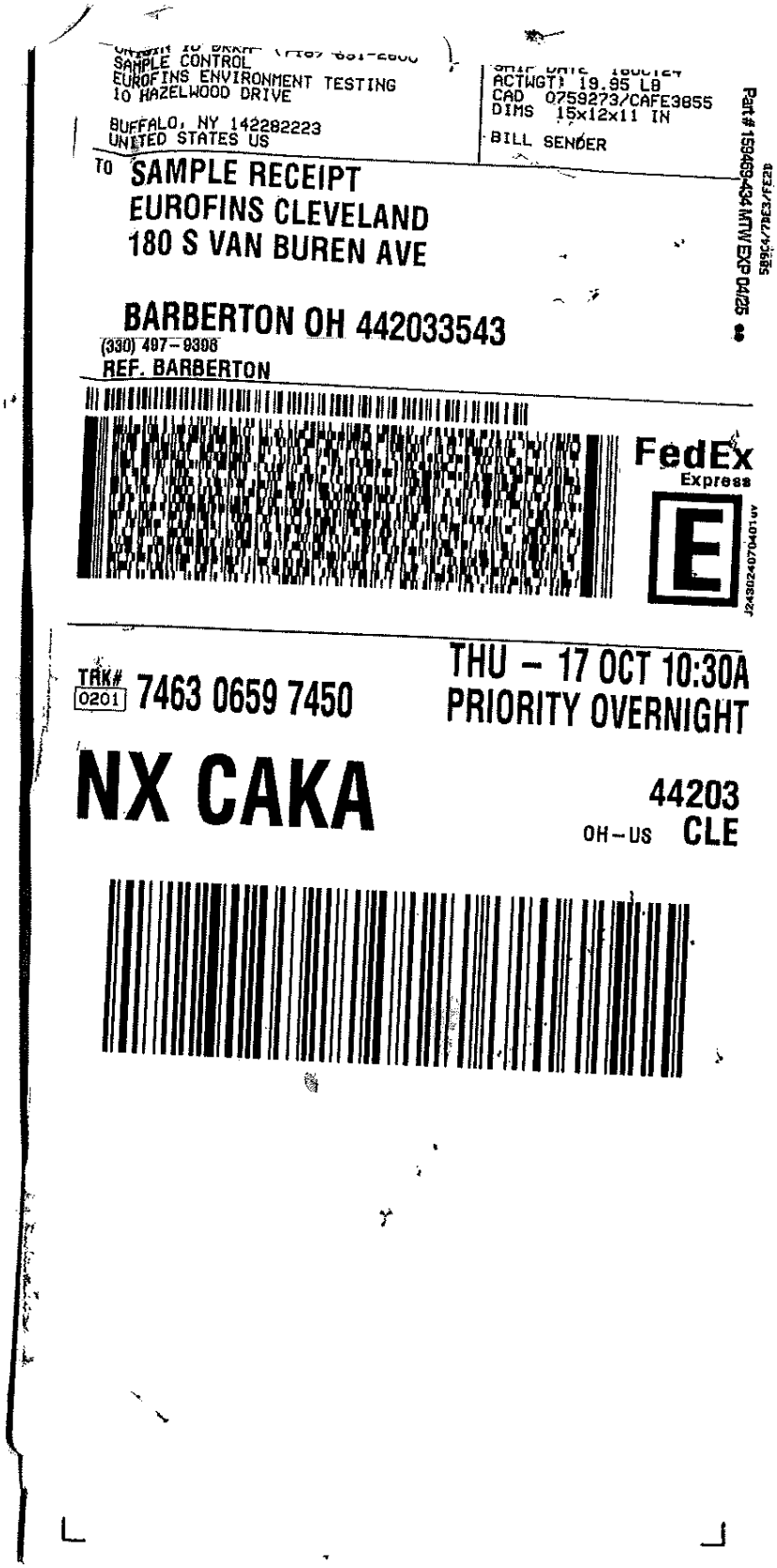
19 SAMPLE CONDITION

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: 19.95 LB
CAD 0759273/CAFE3855
DIMS 15x12x11 IN
BILL SENDER

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF. BARBERTON

FedEx Express

TRK# 0201 7463 0659 7450

THU - 17 OCT 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

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:	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-89900.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-224373-1
Address: 777 New Durham Road,	Due Date Requested: 10/28/2024			Preservation Codes:
City: Edison	TAT Requested (days):			
State, Zip: NJ 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: The Nest Site Analysis	Project #: 48028073			
Site:	SSOW#:			Other:

Analysis Requested

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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
R1 MW-3 (2-4') (480-224373-1)	10/15/24	15:30 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: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10-17-24 1600			10/18/24 10	
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: 05/06/2024

IR9 12-14 16-18

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224373-1

Login Number: 224373
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	BE3
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	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224373-1

Login Number: 224373
List Number: 3
Creator: Armbruster, Chris

List Source: Eurofins Edison
List Creation: 10/18/24 01:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2/1.4°, 1.6/1.8°C IR9
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 11/5/2024 3:10:31 PM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-224492-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

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.

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Authorization

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Qualifiers

GC/MS 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.
U	Indicates the analyte was analyzed for but not detected.

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.
N	This flag indicates the presumptive evidence of a compound.
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.
U	Indicates the analyte was analyzed for but not detected.

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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
^5+	Linear Range Check (LRC) 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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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"

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 480-224492-1 Eurofins Buffalo

Job Narrative
480-224492-1

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 10/17/2024 4:10 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-728936 recovered above the upper control limit for Chloromethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: R1 MW-1 (2-4') (480-224492-1).

Method 8260C: The following sample was analyzed using medium level soil analysis to bring the concentration of target analytes within the calibration range: R1 MW-1 (2-4') (480-224492-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The method blank for analytical batch preparation batch 480-728938 and analytical batch 480-728936 contained Methylene Chloride below the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated sample(s) was not re-extracted and/or re-analyzed because the concentration of the common lab contaminant in the samples was similar to the concentration in the method blank. The following sample is impacted: R1 MW-1 (2-4') (480-224492-1).

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: R1 MW-1 (2-4') (480-224492-1). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-729241 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: R1 MW-1 (2-4') (480-224492-1).

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Atrazine. The laboratory control sample (LCS) associated with preparation batch 480-728928 and analytical batch 480-729241 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

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

Herbicides
Method 8151A: Insufficient sample volume was provided for the following sample for the analysis: R1 MW-1 (2-4') (480-224492-1).

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: R1 MW-1 (2-4') (480-224492-1).

Eurofins Buffalo

Job ID: 480-224492-1 (Continued) Eurofins Buffalo

Method 8081B: The following sample was diluted due to the nature of the sample matrix: R1 MW-1 (2-4') (480-224492-1). 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 480-728929 and analytical batch 480-729100 contained 4,4'-DDT, alpha-BHC, delta-BHC and Lindane 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

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 analytes associated with this IDA are within spec, data is reported. The following sample is impacted: R1 MW-1 (2-4') (480-224492-1).

Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-631763 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 analytes associated with this IDA are within spec, data is reported.

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit in the closing CCB for the following sample: R1 MW-1 (2-4') (480-224492-1). 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.

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: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl acetate	410	J	740	71	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	73	J B	150	29	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1800		150	20	ug/Kg	1	☼	8260C	Total/NA
Toluene	60	J	150	40	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	1700		150	41	ug/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	230	J	1100	210	ug/Kg	5	☼	8270D	Total/NA
Acenaphthene	790	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Anthracene	1700		1100	260	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	2200		1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	2200		1100	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2500		1100	170	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1600		1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	940	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Butyl benzyl phthalate	190	J	1100	180	ug/Kg	5	☼	8270D	Total/NA
Carbazole	640	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Chrysene	2300		1100	240	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	390	J	1100	190	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	460	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	6300		1100	110	ug/Kg	5	☼	8270D	Total/NA
Fluorene	720	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Hexachlorobutadiene	390	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1200		1100	130	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	320	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	6100		1100	160	ug/Kg	5	☼	8270D	Total/NA
Pyrene	5100		1100	130	ug/Kg	5	☼	8270D	Total/NA
alpha-BHC	9.1	J B	43	7.7	ug/Kg	20	☼	8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	0.22	J	0.42	0.10	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.33		0.21	0.052	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.088	J	0.21	0.052	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.34		0.21	0.052	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorononanoic acid (PFNA)	0.10	J	0.21	0.052	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.12	J	0.21	0.052	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.052	J	0.21	0.052	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.77		0.21	0.052	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.52		0.21	0.052	ug/Kg	1	☼	Draft-3 1633	Total/NA
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.15	J	0.21	0.052	ug/Kg	1	☼	Draft-3 1633	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.56		0.21	0.052	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	6520		13.0	11.2	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.4	J	2.6	1.1	mg/Kg	1	☼	6010C	Total/NA
Barium	21.1		0.65	0.18	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.27		0.26	0.052	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.5		0.26	0.091	mg/Kg	1	☼	6010C	Total/NA
Calcium	149000		325	176	mg/Kg	5	☼	6010C	Total/NA
Chromium	7.2		0.65	0.47	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.6		0.65	0.13	mg/Kg	1	☼	6010C	Total/NA
Copper	15.4		1.3	0.74	mg/Kg	1	☼	6010C	Total/NA
Iron	7930		13.0	11.0	mg/Kg	1	☼	6010C	Total/NA
Lead	105		1.3	0.60	mg/Kg	1	☼	6010C	Total/NA
Magnesium	85300		130	55.2	mg/Kg	5	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: R1 MW-1 (2-4') (Continued)
Lab Sample ID: 480-224492-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	585		1.3	0.36	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.3		6.5	0.33	mg/Kg	1	☼	6010C	Total/NA
Potassium	2270		39.1	31.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	204		182	79.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.9		0.65	0.17	mg/Kg	1	☼	6010C	Total/NA
Zinc	335		2.6	1.3	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.015	J	0.027	0.0063	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224492-1
Project/Site: The Nest Site Analysis

Client Sample ID: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1
Date Collected: 10/17/24 10:00
Matrix: Solid
Date Received: 10/17/24 16:10
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	150	U	150	41	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,1,2,2-Tetrachloroethane	150	U	150	24	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	150	U	150	74	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,1,2-Trichloroethane	150	U	150	31	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,1-Dichloroethane	150	U	150	46	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,1-Dichloroethene	150	U	150	51	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,2,4-Trichlorobenzene	150	U	150	56	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,2-Dibromo-3-Chloropropane	150	U	150	74	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,2-Dichlorobenzene	150	U	150	38	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,2-Dichloroethane	150	U	150	61	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,2-Dichloropropane	150	U	150	24	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,3-Dichlorobenzene	150	U	150	40	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,4-Dichlorobenzene	150	U	150	21	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
2-Butanone (MEK)	740	U	740	440	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
2-Hexanone	740	U	740	300	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
4-Methyl-2-pentanone (MIBK)	740	U	740	47	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Acetone	740	U	740	610	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Benzene	150	U	150	28	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Bromoform	150	U	150	74	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Bromomethane	150	U	150	33	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Carbon disulfide	150	U	150	67	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Carbon tetrachloride	150	U	150	38	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Chlorobenzene	150	U	150	20	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Dibromochloromethane	150	U	150	72	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Chloroethane	150	U	150	31	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Chloroform	150	U	150	100	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Chloromethane	150	U	150	35	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
cis-1,2-Dichloroethene	150	U	150	41	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Cyclohexane	150	U	150	33	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Bromodichloromethane	150	U	150	30	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Dichlorodifluoromethane	150	U	150	65	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Ethylbenzene	150	U	150	43	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
1,2-Dibromoethane	150	U	150	26	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Isopropylbenzene	150	U	150	22	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Methyl acetate	**410**	**J**	740	71	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Methyl tert-butyl ether	150	U	150	56	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Methylcyclohexane	150	U	150	69	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Methylene Chloride	**73**	**J B**	150	29	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Tetrachloroethene	**1800**		150	20	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Toluene	**60**	**J**	150	40	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
trans-1,2-Dichloroethene	150	U	150	35	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
trans-1,3-Dichloropropene	150	U	150	15	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Trichloroethene	**1700**		150	41	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Trichlorofluoromethane	150	U	150	70	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Vinyl chloride	150	U	150	50	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Xylenes, Total	300	U	300	82	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
cis-1,3-Dichloropropene	150	U	150	35	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1
Styrene	150	U	150	36	ug/Kg	☼	10/19/24 08:40	10/19/24 13:33	1

Client Sample ID: R1 MW-1 (2-4')
Date Collected: 10/17/24 10:00
Date Received: 10/17/24 16:10

Lab Sample ID: 480-224492-1
Matrix: Solid
Percent Solids: 77.1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
o-Xylene	21	J	ug/Kg	☼	8.37	95-47-6	10/19/24 08:40	10/19/24 13:33	1
Unknown	520	T J	ug/Kg	☼	10.73	N/A	10/19/24 08:40	10/19/24 13:33	1
Unknown	1100	T J	ug/Kg	☼	11.68	N/A	10/19/24 08:40	10/19/24 13:33	1
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	630	T J N	ug/Kg	☼	12.09	87-68-3	10/19/24 08:40	10/19/24 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		53 - 146	10/19/24 08:40	10/19/24 13:33	1
4-Bromofluorobenzene (Surr)	96		49 - 148	10/19/24 08:40	10/19/24 13:33	1
Toluene-d8 (Surr)	97		50 - 149	10/19/24 08:40	10/19/24 13:33	1
Dibromofluoromethane (Surr)	93		60 - 140	10/19/24 08:40	10/19/24 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	630	U	630	350	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2,4,5-Trichlorophenol	1100	U	1100	290	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2,4,6-Trichlorophenol	1100	U	1100	210	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2,4-Dichlorophenol	1100	U	1100	110	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2,4-Dimethylphenol	1100	U	1100	260	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2,4-Dinitrophenol	10000	U	10000	4900	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2,4-Dinitrotoluene	1100	U	1100	220	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2,6-Dinitrotoluene	1100	U	1100	130	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2-Chloronaphthalene	1100	U	1100	180	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2-Chlorophenol	2100	U	2100	200	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2-Methylnaphthalene	**230**	**J**	1100	210	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2-Methylphenol	1100	U	1100	130	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2-Nitroaniline	2100	U	2100	160	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
2-Nitrophenol	1100	U	1100	300	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
3,3'-Dichlorobenzidine	2100	U	2100	1300	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
3-Nitroaniline	2100	U	2100	300	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
4,6-Dinitro-2-methylphenol	2100	U	2100	1100	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
4-Bromophenyl phenyl ether	1100	U	1100	150	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
4-Chloro-3-methylphenol	1100	U	1100	260	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
4-Chloroaniline	1100	U	1100	260	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
4-Chlorophenyl phenyl ether	1100	U	1100	130	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
4-Methylphenol	2100	U	2100	130	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
4-Nitroaniline	2100	U	2100	560	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
4-Nitrophenol	2100	U	2100	750	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Acenaphthene	**790**	**J**	1100	160	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Acenaphthylene	1100	U	1100	140	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Acetophenone	1100	U	1100	150	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Anthracene	**1700**		1100	260	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Atrazine	1100	U	1100	370	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Benzaldehyde	1100	U	1100	850	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Benzo[a]anthracene	**2200**		1100	110	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Benzo[a]pyrene	**2200**		1100	160	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Benzo[b]fluoranthene	**2500**		1100	170	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Benzo[g,h,i]perylene	**1600**		1100	110	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Benzo[k]fluoranthene	**940**	**J**	1100	140	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Biphenyl	1100	U	1100	160	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
bis (2-chloroisopropyl) ether	1100	U	1100	210	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5

Client Sample ID: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1
Date Collected: 10/17/24 10:00
Matrix: Solid
Date Received: 10/17/24 16:10
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	1100	U	1100	230	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Bis(2-chloroethyl)ether	1100	U	1100	140	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Bis(2-ethylhexyl) phthalate	1100	U	1100	370	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Butyl benzyl phthalate	**190**	**J**	1100	180	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Caprolactam	1100	U	1100	320	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Carbazole	**640**	**J**	1100	130	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Chrysene	**2300**		1100	240	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Dibenz(a,h)anthracene	**390**	**J**	1100	190	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Dibenzofuran	**460**	**J**	1100	130	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Diethyl phthalate	1100	U	1100	140	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Dimethyl phthalate	1100	U	1100	130	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Di-n-butyl phthalate	1100	U	1100	180	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Di-n-octyl phthalate	1100	U	1100	130	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Fluoranthene	**6300**		1100	110	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Fluorene	**720**	**J**	1100	130	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Hexachlorobenzene	1100	U	1100	150	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Hexachlorobutadiene	**390**	**J**	1100	160	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Hexachlorocyclopentadiene	1100	U	1100	150	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Hexachloroethane	1100	U	1100	140	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Indeno[1,2,3-cd]pyrene	**1200**		1100	130	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Isophorone	1100	U	1100	230	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Naphthalene	**320**	**J**	1100	140	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Nitrobenzene	1100	U	1100	120	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
N-Nitrosodi-n-propylamine	1100	U	1100	180	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
N-Nitrosodiphenylamine	1100	U	1100	870	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Pentachlorophenol	2100	U	2100	1100	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Phenanthrene	**6100**		1100	160	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Phenol	1100	U	1100	160	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5
Pyrene	**5100**		1100	130	ug/Kg	☼	10/18/24 18:09	10/22/24 17:32	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*26 - 143*	*10/18/24 18:09*	*10/22/24 17:32*	*5*
2-Fluorobiphenyl (Surr)	*71*		*50 - 121*	*10/18/24 18:09*	*10/22/24 17:32*	*5*
2-Fluorophenol (Surr)	*71*		*36 - 120*	*10/18/24 18:09*	*10/22/24 17:32*	*5*
Nitrobenzene-d5 (Surr)	*67*		*40 - 121*	*10/18/24 18:09*	*10/22/24 17:32*	*5*
Phenol-d5 (Surr)	*70*		*41 - 120*	*10/18/24 18:09*	*10/22/24 17:32*	*5*
p-Terphenyl-d14 (Surr)	*73*		*46 - 143*	*10/18/24 18:09*	*10/22/24 17:32*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	43	U	43	8.3	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
4,4'-DDE	43	U	43	8.9	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
4,4'-DDT	43	U	43	10	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
Aldrin	43	U	43	10	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
alpha-BHC	**9.1**	**J B**	43	7.7	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
beta-BHC	43	U	43	7.7	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
Chlordane (.alpha.)	43	U	43	21	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
delta-BHC	43	U	43	7.9	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
Dieldrin	43	U	43	10	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
Endosulfan I	43	U	43	8.2	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20

Client Sample ID: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1
Date Collected: 10/17/24 10:00
Matrix: Solid
Date Received: 10/17/24 16:10
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	43	U	43	7.7	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
Endosulfan sulfate	43	U	43	7.9	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
Endrin	43	U	43	8.4	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
Heptachlor	43	U	43	9.2	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20
Lindane	43	U	43	7.8	ug/Kg	☼	10/18/24 18:15	10/21/24 14:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*144*	*S1+*	*45 - 120*	*10/18/24 18:15*	*10/21/24 14:30*	*20*
DCB Decachlorobiphenyl	*137*	*S1+*	*45 - 120*	*10/18/24 18:15*	*10/21/24 14:30*	*20*
Tetrachloro-m-xylene	*130*	*S1+*	*30 - 124*	*10/18/24 18:15*	*10/21/24 14:30*	*20*
Tetrachloro-m-xylene	*126*	*S1+*	*30 - 124*	*10/18/24 18:15*	*10/21/24 14:30*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.29	U	0.29	0.056	mg/Kg	☼	10/18/24 18:25	10/22/24 03:30	1
PCB-1221	0.29	U	0.29	0.056	mg/Kg	☼	10/18/24 18:25	10/22/24 03:30	1
PCB-1232	0.29	U	0.29	0.056	mg/Kg	☼	10/18/24 18:25	10/22/24 03:30	1
PCB-1242	0.29	U	0.29	0.056	mg/Kg	☼	10/18/24 18:25	10/22/24 03:30	1
PCB-1248	0.29	U	0.29	0.056	mg/Kg	☼	10/18/24 18:25	10/22/24 03:30	1
PCB-1254	0.29	U	0.29	0.13	mg/Kg	☼	10/18/24 18:25	10/22/24 03:30	1
PCB-1260	0.29	U	0.29	0.13	mg/Kg	☼	10/18/24 18:25	10/22/24 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*60 - 154*	*10/18/24 18:25*	*10/22/24 03:30*	*1*
Tetrachloro-m-xylene	*111*		*60 - 154*	*10/18/24 18:25*	*10/22/24 03:30*	*1*
DCB Decachlorobiphenyl	*125*		*65 - 174*	*10/18/24 18:25*	*10/22/24 03:30*	*1*
DCB Decachlorobiphenyl	*132*		*65 - 174*	*10/18/24 18:25*	*10/22/24 03:30*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	21	U	21	7.7	ug/Kg	☼	10/20/24 07:03	10/22/24 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*10/20/24 07:03*	*10/22/24 15:20*	*1*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*10/20/24 07:03*	*10/22/24 15:20*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.83	U	0.83	0.21	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluoropentanoic acid (PFPeA)	**0.22**	**J**	0.42	0.10	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorohexanoic acid (PFHxA)	**0.33**		0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluoroheptanoic acid (PFHpA)	**0.088**	**J**	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorooctanoic acid (PFOA)	**0.34**		0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorononanoic acid (PFNA)	**0.10**	**J**	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorodecanoic acid (PFDA)	**0.12**	**J**	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorotridecanoic acid (PFTrDA)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorotetradecanoic acid (PFTeDA)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1

Client Sample ID: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1
Date Collected: 10/17/24 10:00
Matrix: Solid
Date Received: 10/17/24 16:10
Percent Solids: 77.1

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorohexanesulfonic acid (PFHxS)	**0.052**	**J**	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluoroheptanesulfonic acid (PFHpS)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorooctanesulfonic acid (PFOS)	**0.77**		0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorononanesulfonic acid (PFNS)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorododecanesulfonic acid (PFDoS)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.83	U	0.83	0.21	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.83	U	0.83	0.21	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.83	U	0.83	0.21	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorooctanesulfonamide (PFOSA)	**0.52**		0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	**0.15**	**J**	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**0.56**		0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.1	U	2.1	0.52	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.1	U	2.1	0.52	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.83	U	0.83	0.21	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.83	U	0.83	0.21	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.42	U	0.42	0.10	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.42	U	0.42	0.10	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.83	U	0.83	0.21	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.83	U	0.83	0.21	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.42	U	0.42	0.10	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	1.0	0.26	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.2	U	5.2	1.3	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.2	U	5.2	1.3	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluorodecanesulfonic acid (PFDS)	0.21	U	0.21	0.052	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.42	U	0.42	0.10	ug/Kg	☼	10/21/24 10:05	10/22/24 03:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*91.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 03:52*	*1*

Client Sample ID: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1

Date Collected: 10/17/24 10:00
Matrix: Solid

Date Received: 10/17/24 16:10
Percent Solids: 77.1

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	80.7		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C5 PFHxA	82.4		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C4 PFHpA	87.4		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C8 PFOA	80.9		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C9 PFNA	96.4		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C6 PFDA	94.3		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C7 PFUnA	86.9		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C2 PFTeDA	56.7		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C3 PFBS	99.7		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C3 PFHxS	88.8		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C8 PFOS	93.1		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C8 PFOSA	80.6		20 - 150	10/21/24 10:05	10/22/24 03:52	1
d3-NMeFOSAA	94.2		20 - 150	10/21/24 10:05	10/22/24 03:52	1
d5-NEtFOSAA	91.7		20 - 150	10/21/24 10:05	10/22/24 03:52	1
M2-4:2 FTS	128		20 - 150	10/21/24 10:05	10/22/24 03:52	1
M2-6:2 FTS	144		20 - 150	10/21/24 10:05	10/22/24 03:52	1
M2-8:2 FTS	150		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C3 HFPO-DA	87.0		20 - 150	10/21/24 10:05	10/22/24 03:52	1
d7-N-MeFOSE-M	70.8		20 - 150	10/21/24 10:05	10/22/24 03:52	1
d9-N-EtFOSE-M	66.3		20 - 150	10/21/24 10:05	10/22/24 03:52	1
d5-NEtPFOSA	73.4		20 - 150	10/21/24 10:05	10/22/24 03:52	1
D3-NMeFOSA	68.5		20 - 150	10/21/24 10:05	10/22/24 03:52	1
13C2-PFDoDA	80.0		20 - 150	10/21/24 10:05	10/22/24 03:52	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6520**		13.0	11.2	mg/Kg	☼	10/18/24 16:16	10/21/24 20:12	1
Antimony	19.5	U	19.5	0.69	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Arsenic	**2.4**	**J**	2.6	1.1	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Barium	**21.1**		0.65	0.18	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Beryllium	**0.27**		0.26	0.052	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Cadmium	**1.5**		0.26	0.091	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Calcium	**149000**		325	176	mg/Kg	☼	10/18/24 16:16	10/21/24 20:14	5
Chromium	**7.2**		0.65	0.47	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Cobalt	**3.6**		0.65	0.13	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Copper	**15.4**		1.3	0.74	mg/Kg	☼	10/18/24 16:16	10/21/24 20:12	1
Iron	**7930**		13.0	11.0	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Lead	**105**		1.3	0.60	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Magnesium	**85300**		130	55.2	mg/Kg	☼	10/18/24 16:16	10/21/24 20:14	5
Manganese	**585**		1.3	0.36	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Nickel	**8.3**		6.5	0.33	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Potassium	**2270**		39.1	31.6	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Selenium	5.2	U	5.2	1.0	mg/Kg	☼	10/18/24 16:16	10/21/24 20:12	1
Silver	0.78	U	0.78	0.26	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Sodium	**204**		182	79.8	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Thallium	7.8	U	7.8	0.99	mg/Kg	☼	10/18/24 16:16	10/20/24 15:35	1
Vanadium	**12.9**		0.65	0.17	mg/Kg	☼	10/18/24 16:16	10/21/24 20:12	1
Zinc	**335**		2.6	1.3	mg/Kg	☼	10/18/24 16:16	10/21/24 20:12	1

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224492-1
Project/Site: The Nest Site Analysis

Client Sample ID: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1

Date Collected: 10/17/24 10:00
Matrix: Solid

Date Received: 10/17/24 16:10
Percent Solids: 77.1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.015**	**J**	0.027	0.0063	mg/Kg	☼	10/19/24 09:56	10/19/24 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.5	U	2.5	1.1	mg/Kg	☼	11/01/24 09:30	11/01/24 14:55	1
Cyanide, Total (SW846 9012B)	1.2	U	1.2	0.56	mg/Kg	☼	10/21/24 14:55	10/21/24 19:46	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224492-1
Project/Site: The Nest Site Analysis

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	(53-146)	(49-148)	(50-149)	(60-140)
480-224492-1	R1 MW-1 (2-4')	103	96	97	93
LCS 480-728938/1-A	Lab Control Sample	97	91	98	94
MB 480-728938/3-A	Method Blank	102	93	99	90

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	PHL	TPHd14
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(41-120)	(46-143)
480-224492-1	R1 MW-1 (2-4')	63	71	71	67	70	73
LCS 480-728928/2-A	Lab Control Sample	96	86	89	84	95	94
MB 480-728928/1-A	Method Blank	76	78	78	71	82	87

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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)
480-224492-1	R1 MW-1 (2-4')	144 S1+	137 S1+	130 S1+	126 S1+
LCS 480-728929/2-A	Lab Control Sample	88	87	70	66
MB 480-728929/1-A	Method Blank	81	81	62	57

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)
480-224492-1	R1 MW-1 (2-4')	110	111	125	132
LCS 480-728930/2-A	Lab Control Sample	136	125	146	149
MB 480-728930/1-A	Method Blank	111	106	126	128

Surrogate Legend

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224492-1
Project/Site: The Nest Site Analysis

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)								
480-224492-1	R1 MW-1 (2-4')	68	72								
LCS 480-729003/2-A	Lab Control Sample	74	75								
MB 480-729003/1-A	Method Blank	73	77								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224492-1
Project/Site: The Nest Site Analysis

Method: Draft-3 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)
480-224492-1	R1 MW-1 (2-4')	91.9	80.7	82.4	87.4	80.9	96.4	94.3	86.9
LCS 240-631678/3-A	Lab Control Sample	87.9	77.8	81.4	83.8	77.9	85.1	85.3	79.8
LLCS 240-631678/2-A	Lab Control Sample	92.5	83.0	87.7	88.5	78.5	93.2	93.6	85.0
MB 240-631678/1-A	Method Blank	96.1	86.5	95.9	93.9	87.5	104	100	88.7

		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)
480-224492-1	R1 MW-1 (2-4')	56.7	99.7	88.8	93.1	80.6	94.2	91.7	128
LCS 240-631678/3-A	Lab Control Sample	54.9	89.9	80.9	84.9	78.4	89.8	88.0	119
LLCS 240-631678/2-A	Lab Control Sample	55.2	96.3	87.3	85.1	81.6	92.0	87.7	133
MB 240-631678/1-A	Method Blank	58.3	102	87.6	93.5	93.0	97.1	95.5	136

		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)
480-224492-1	R1 MW-1 (2-4')	144	150	87.0	70.8	66.3	73.4	68.5	80.0
LCS 240-631678/3-A	Lab Control Sample	136	128	79.3	67.9	61.1	61.6	58.2	76.5
LLCS 240-631678/2-A	Lab Control Sample	141	144	90.1	69.0	65.3	65.5	59.3	76.1
MB 240-631678/1-A	Method Blank	148	149	96.3	78.6	71.9	70.9	65.2	78.9

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 480-728938/3-A
Matrix: Solid
Analysis Batch: 728936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U	100	28	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,1,2,2-Tetrachloroethane	100	U	100	16	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U	100	50	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,1,2-Trichloroethane	100	U	100	21	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,1-Dichloroethane	100	U	100	31	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,1-Dichloroethene	100	U	100	35	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,2,4-Trichlorobenzene	100	U	100	38	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,2-Dibromo-3-Chloropropane	100	U	100	50	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,2-Dichlorobenzene	100	U	100	26	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,2-Dichloroethane	100	U	100	41	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,2-Dichloropropane	100	U	100	16	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,3-Dichlorobenzene	100	U	100	27	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,4-Dichlorobenzene	100	U	100	14	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
2-Butanone (MEK)	500	U	500	300	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
2-Hexanone	500	U	500	210	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
4-Methyl-2-pentanone (MIBK)	500	U	500	32	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Acetone	500	U	500	410	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Benzene	100	U	100	19	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Bromoform	100	U	100	50	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Bromomethane	100	U	100	22	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Carbon disulfide	100	U	100	46	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Carbon tetrachloride	100	U	100	26	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Chlorobenzene	100	U	100	13	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Dibromochloromethane	100	U	100	48	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Chloroethane	100	U	100	21	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Chloroform	100	U	100	69	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Chloromethane	100	U	100	24	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
cis-1,2-Dichloroethene	100	U	100	28	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Cyclohexane	100	U	100	22	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Bromodichloromethane	100	U	100	20	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Dichlorodifluoromethane	100	U	100	44	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Ethylbenzene	100	U	100	29	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
1,2-Dibromoethane	100	U	100	18	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Isopropylbenzene	100	U	100	15	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Methyl acetate	500	U	500	48	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Methyl tert-butyl ether	100	U	100	38	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Methylcyclohexane	100	U	100	47	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Methylene Chloride	70.2	J	100	20	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Tetrachloroethene	100	U	100	13	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Toluene	100	U	100	27	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
trans-1,2-Dichloroethene	100	U	100	24	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
trans-1,3-Dichloropropene	100	U	100	9.8	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Trichloroethene	100	U	100	28	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Trichlorofluoromethane	100	U	100	47	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Vinyl chloride	100	U	100	34	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Xylenes, Total	200	U	200	55	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
cis-1,3-Dichloropropene	100	U	100	24	ug/Kg		10/19/24 08:40	10/19/24 12:22	1
Styrene	100	U	100	24	ug/Kg		10/19/24 08:40	10/19/24 12:22	1

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

Lab Sample ID: MB 480-728938/3-A
Matrix: Solid
Analysis Batch: 728936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728938

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	10/19/24 08:40	10/19/24 12:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		53 - 146	10/19/24 08:40	10/19/24 12:22	1
4-Bromofluorobenzene (Surr)	93		49 - 148	10/19/24 08:40	10/19/24 12:22	1
Toluene-d8 (Surr)	99		50 - 149	10/19/24 08:40	10/19/24 12:22	1
Dibromofluoromethane (Surr)	90		60 - 140	10/19/24 08:40	10/19/24 12:22	1

Lab Sample ID: LCS 480-728938/1-A
Matrix: Solid
Analysis Batch: 728936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	2500	2370		ug/Kg		95	68 - 130
1,1,2,2-Tetrachloroethane	2500	2520		ug/Kg		101	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2310		ug/Kg		92	10 - 179
1,1,2-Trichloroethane	2500	2320		ug/Kg		93	80 - 120
1,1-Dichloroethane	2500	2440		ug/Kg		98	78 - 121
1,1-Dichloroethene	2500	2130		ug/Kg		85	48 - 133
1,2,4-Trichlorobenzene	2500	2540		ug/Kg		102	70 - 140
1,2-Dibromo-3-Chloropropane	2500	1880		ug/Kg		75	56 - 122
1,2-Dichlorobenzene	2500	2510		ug/Kg		100	78 - 125
1,2-Dichloroethane	2500	2390		ug/Kg		96	74 - 127
1,2-Dichloropropane	2500	2370		ug/Kg		95	80 - 120
1,3-Dichlorobenzene	2500	2500		ug/Kg		100	80 - 120
1,4-Dichlorobenzene	2500	2480		ug/Kg		99	80 - 120
2-Butanone (MEK)	12500	11900		ug/Kg		95	54 - 149
2-Hexanone	12500	12300		ug/Kg		99	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	12800		ug/Kg		102	74 - 120
Acetone	12500	10700		ug/Kg		85	47 - 141
Benzene	2500	2350		ug/Kg		94	77 - 125
Bromoform	2500	2070		ug/Kg		83	48 - 125
Bromomethane	2500	1670		ug/Kg		67	39 - 149
Carbon disulfide	2500	2200		ug/Kg		88	40 - 136
Carbon tetrachloride	2500	2370		ug/Kg		95	54 - 135
Chlorobenzene	2500	2350		ug/Kg		94	76 - 126
Dibromochloromethane	2500	2300		ug/Kg		92	64 - 120
Chloroethane	2500	1890		ug/Kg		76	23 - 150
Chloroform	2500	2220		ug/Kg		89	78 - 120
Chloromethane	2500	2550		ug/Kg		102	61 - 124
cis-1,2-Dichloroethene	2500	2390		ug/Kg		96	79 - 124
Cyclohexane	2500	2740		ug/Kg		110	49 - 129
Bromodichloromethane	2500	2230		ug/Kg		89	71 - 121
Dichlorodifluoromethane	2500	2410		ug/Kg		96	10 - 150
Ethylbenzene	2500	2410		ug/Kg		96	78 - 124
1,2-Dibromoethane	2500	2250		ug/Kg		90	80 - 120
Isopropylbenzene	2500	2650		ug/Kg		106	76 - 120

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

Lab Sample ID: LCS 480-728938/1-A
Matrix: Solid
Analysis Batch: 728936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl acetate	5000	5020		ug/Kg		100	71 - 123
Methyl tert-butyl ether	2500	2330		ug/Kg		93	67 - 137
Methylcyclohexane	2500	2530		ug/Kg		101	50 - 130
Methylene Chloride	2500	2360		ug/Kg		94	75 - 118
Tetrachloroethene	2500	2410		ug/Kg		96	73 - 133
Toluene	2500	2330		ug/Kg		93	75 - 124
trans-1,2-Dichloroethene	2500	2290		ug/Kg		92	74 - 129
trans-1,3-Dichloropropene	2500	2450		ug/Kg		98	73 - 120
Trichloroethene	2500	2340		ug/Kg		93	75 - 131
Trichlorofluoromethane	2500	2450		ug/Kg		98	29 - 158
Vinyl chloride	2500	2510		ug/Kg		100	59 - 124
cis-1,3-Dichloropropene	2500	2390		ug/Kg		96	75 - 121
Styrene	2500	2270		ug/Kg		91	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*53 - 146*
4-Bromofluorobenzene (Surr)	*91*		*49 - 148*
Toluene-d8 (Surr)	*98*		*50 - 149*
Dibromofluoromethane (Surr)	*94*		*60 - 140*

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

Lab Sample ID: MB 480-728928/1-A
Matrix: Solid
Analysis Batch: 729241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	55	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2,4,5-Trichlorophenol	170	U	170	46	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2,4,6-Trichlorophenol	170	U	170	34	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2,4-Dichlorophenol	170	U	170	18	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2,4-Dimethylphenol	170	U	170	41	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2,4-Dinitrophenol	1700	U	1700	780	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2,4-Dinitrotoluene	170	U	170	35	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2,6-Dinitrotoluene	170	U	170	20	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2-Chloronaphthalene	170	U	170	28	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2-Chlorophenol	330	U	330	31	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2-Methylnaphthalene	170	U	170	34	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2-Methylphenol	170	U	170	20	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2-Nitroaniline	330	U	330	25	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
2-Nitrophenol	170	U	170	48	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
3,3'-Dichlorobenzidine	330	U	330	200	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
3-Nitroaniline	330	U	330	47	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
4,6-Dinitro-2-methylphenol	330	U	330	170	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
4-Bromophenyl phenyl ether	170	U	170	24	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
4-Chloro-3-methylphenol	170	U	170	42	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
4-Chloroaniline	170	U	170	42	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
4-Chlorophenyl phenyl ether	170	U	170	21	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
4-Methylphenol	330	U	330	20	ug/Kg		10/18/24 18:09	10/22/24 11:26	1

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

Lab Sample ID: MB 480-728928/1-A
Matrix: Solid
Analysis Batch: 729241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	330	U	330	89	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
4-Nitrophenol	330	U	330	120	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Acenaphthene	170	U	170	25	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Acenaphthylene	170	U	170	22	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Acetophenone	170	U	170	23	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Anthracene	170	U	170	42	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Atrazine	170	U	170	59	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Benzaldehyde	170	U	170	140	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Biphenyl	170	U	170	25	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
bis (2-chloroisopropyl) ether	170	U	170	34	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Bis(2-chloroethoxy)methane	170	U	170	36	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Bis(2-chloroethyl)ether	170	U	170	22	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Bis(2-ethylhexyl) phthalate	170	U	170	58	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Butyl benzyl phthalate	170	U	170	28	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Caprolactam	170	U	170	51	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Carbazole	170	U	170	20	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Chrysene	170	U	170	38	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Dibenzofuran	170	U	170	20	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Diethyl phthalate	170	U	170	22	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Dimethyl phthalate	170	U	170	20	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Di-n-butyl phthalate	170	U	170	29	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Di-n-octyl phthalate	170	U	170	20	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Fluoranthene	170	U	170	18	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Fluorene	170	U	170	20	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Hexachlorobenzene	170	U	170	23	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Hexachlorobutadiene	170	U	170	25	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Hexachlorocyclopentadiene	170	U	170	23	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Hexachloroethane	170	U	170	22	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Isophorone	170	U	170	36	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Naphthalene	170	U	170	22	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Nitrobenzene	170	U	170	19	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
N-Nitrosodi-n-propylamine	170	U	170	29	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
N-Nitrosodiphenylamine	170	U	170	140	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Pentachlorophenol	330	U	330	170	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Phenanthrene	170	U	170	25	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Phenol	170	U	170	26	ug/Kg		10/18/24 18:09	10/22/24 11:26	1
Pyrene	170	U	170	20	ug/Kg		10/18/24 18:09	10/22/24 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*26 - 143*	*10/18/24 18:09*	*10/22/24 11:26*	*1*
2-Fluorobiphenyl (Surr)	*78*		*50 - 121*	*10/18/24 18:09*	*10/22/24 11:26*	*1*

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

Lab Sample ID: MB 480-728928/1-A
Matrix: Solid
Analysis Batch: 729241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728928

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	78		36 - 120	10/18/24 18:09	10/22/24 11:26	1
Nitrobenzene-d5 (Surr)	71		40 - 121	10/18/24 18:09	10/22/24 11:26	1
Phenol-d5 (Surr)	82		41 - 120	10/18/24 18:09	10/22/24 11:26	1
p-Terphenyl-d14 (Surr)	87		46 - 143	10/18/24 18:09	10/22/24 11:26	1

Lab Sample ID: LCS 480-728928/2-A
Matrix: Solid
Analysis Batch: 729241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1330	585		ug/Kg		44	23 - 120
2,4,5-Trichlorophenol	1330	1280		ug/Kg		96	59 - 126
2,4,6-Trichlorophenol	1330	1260		ug/Kg		95	59 - 123
2,4-Dichlorophenol	1330	1250		ug/Kg		93	61 - 120
2,4-Dimethylphenol	1330	1270		ug/Kg		95	59 - 120
2,4-Dinitrophenol	2670	2870		ug/Kg		108	41 - 146
2,4-Dinitrotoluene	1330	1340		ug/Kg		100	63 - 120
2,6-Dinitrotoluene	1330	1280		ug/Kg		96	66 - 120
2-Chloronaphthalene	1330	1190		ug/Kg		89	57 - 120
2-Chlorophenol	1330	1210		ug/Kg		91	53 - 120
2-Methylnaphthalene	1330	1180		ug/Kg		89	59 - 120
2-Methylphenol	1330	1220		ug/Kg		92	54 - 120
2-Nitroaniline	1330	1490		ug/Kg		112	61 - 120
2-Nitrophenol	1330	1150		ug/Kg		87	56 - 120
3,3'-Dichlorobenzidine	1330	1120		ug/Kg		84	54 - 120
3-Nitroaniline	1330	1150		ug/Kg		86	48 - 120
4,6-Dinitro-2-methylphenol	2670	2750		ug/Kg		103	49 - 122
4-Bromophenyl phenyl ether	1330	1280		ug/Kg		96	58 - 120
4-Chloro-3-methylphenol	1330	1320		ug/Kg		99	61 - 120
4-Chloroaniline	1330	1120		ug/Kg		84	38 - 120
4-Chlorophenyl phenyl ether	1330	1250		ug/Kg		93	63 - 124
4-Methylphenol	1330	1260		ug/Kg		95	55 - 120
4-Nitroaniline	1330	1320		ug/Kg		99	56 - 120
4-Nitrophenol	2670	2790		ug/Kg		105	43 - 147
Acenaphthene	1330	1210		ug/Kg		91	62 - 120
Acenaphthylene	1330	1300		ug/Kg		98	58 - 121
Acetophenone	1330	1220		ug/Kg		92	54 - 120
Anthracene	1330	1310		ug/Kg		98	62 - 120
Atrazine	2670	2780	E	ug/Kg		104	60 - 127
Benzaldehyde	2670	2410		ug/Kg		90	10 - 150
Benzo[a]anthracene	1330	1300		ug/Kg		97	65 - 120
Benzo[a]pyrene	1330	1370		ug/Kg		103	64 - 120
Benzo[b]fluoranthene	1330	1310		ug/Kg		98	64 - 120
Benzo[g,h,i]perylene	1330	1360		ug/Kg		102	45 - 145
Benzo[k]fluoranthene	1330	1350		ug/Kg		102	65 - 120
Biphenyl	1330	1210		ug/Kg		91	59 - 120
bis (2-chloroisopropyl) ether	1330	1240		ug/Kg		93	44 - 120
Bis(2-chloroethoxy)methane	1330	1210		ug/Kg		91	55 - 120

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

Lab Sample ID: LCS 480-728928/2-A
Matrix: Solid
Analysis Batch: 729241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	1330	1150		ug/Kg		86	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1390		ug/Kg		104	61 - 133
Butyl benzyl phthalate	1330	1380		ug/Kg		104	61 - 129
Caprolactam	2670	2610		ug/Kg		98	47 - 120
Carbazole	1330	1360		ug/Kg		102	65 - 120
Chrysene	1330	1240		ug/Kg		93	64 - 120
Dibenz(a,h)anthracene	1330	1440		ug/Kg		108	54 - 132
Dibenzofuran	1330	1220		ug/Kg		91	63 - 120
Diethyl phthalate	1330	1350		ug/Kg		101	66 - 120
Dimethyl phthalate	1330	1340		ug/Kg		100	65 - 124
Di-n-butyl phthalate	1330	1370		ug/Kg		103	58 - 130
Di-n-octyl phthalate	1330	1480		ug/Kg		111	57 - 133
Fluoranthene	1330	1340		ug/Kg		100	62 - 120
Fluorene	1330	1250		ug/Kg		94	63 - 120
Hexachlorobenzene	1330	1270		ug/Kg		95	60 - 120
Hexachlorobutadiene	1330	1070		ug/Kg		80	45 - 120
Hexachlorocyclopentadiene	1330	1150		ug/Kg		86	47 - 120
Hexachloroethane	1330	1050		ug/Kg		79	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1410		ug/Kg		106	56 - 134
Isophorone	1330	1250		ug/Kg		94	56 - 120
Naphthalene	1330	1120		ug/Kg		84	55 - 120
Nitrobenzene	1330	1180		ug/Kg		88	54 - 120
N-Nitrosodi-n-propylamine	1330	1250		ug/Kg		94	52 - 120
N-Nitrosodiphenylamine	1330	1280		ug/Kg		96	51 - 128
Pentachlorophenol	2670	2640		ug/Kg		99	10 - 120
Phenanthrene	1330	1280		ug/Kg		96	60 - 120
Phenol	1330	1190		ug/Kg		89	53 - 120
Pyrene	1330	1300		ug/Kg		98	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*96*		*26 - 143*
2-Fluorobiphenyl (Surr)	*86*		*50 - 121*
2-Fluorophenol (Surr)	*89*		*36 - 120*
Nitrobenzene-d5 (Surr)	*84*		*40 - 121*
Phenol-d5 (Surr)	*95*		*41 - 120*
p-Terphenyl-d14 (Surr)	*94*		*46 - 143*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-728929/1-A
Matrix: Solid
Analysis Batch: 729100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.7	U	1.7	0.32	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
4,4'-DDE	1.7	U	1.7	0.35	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
4,4'-DDT	0.480	J	1.7	0.39	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
Aldrin	1.7	U	1.7	0.41	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
alpha-BHC	0.351	J	1.7	0.30	ug/Kg		10/18/24 18:15	10/21/24 11:35	1

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

Lab Sample ID: MB 480-728929/1-A
Matrix: Solid
Analysis Batch: 729100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	1.7	U	1.7	0.30	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
Chlordane (.alpha.)	1.7	U	1.7	0.83	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
delta-BHC	0.619	J	1.7	0.31	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
Dieldrin	1.7	U	1.7	0.40	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
Endosulfan I	1.7	U	1.7	0.32	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
Endosulfan II	1.7	U	1.7	0.30	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
Endosulfan sulfate	1.7	U	1.7	0.31	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
Endrin	1.7	U	1.7	0.33	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
Heptachlor	1.7	U	1.7	0.36	ug/Kg		10/18/24 18:15	10/21/24 11:35	1
Lindane	0.391	J	1.7	0.31	ug/Kg		10/18/24 18:15	10/21/24 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*45 - 120*	*10/18/24 18:15*	*10/21/24 11:35*	*1*
DCB Decachlorobiphenyl	*81*		*45 - 120*	*10/18/24 18:15*	*10/21/24 11:35*	*1*
Tetrachloro-m-xylene	*62*		*30 - 124*	*10/18/24 18:15*	*10/21/24 11:35*	*1*
Tetrachloro-m-xylene	*57*		*30 - 124*	*10/18/24 18:15*	*10/21/24 11:35*	*1*

Lab Sample ID: LCS 480-728929/2-A
Matrix: Solid
Analysis Batch: 729100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728929

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			16.7	13.0		ug/Kg		78	56 - 120		
4,4'-DDE			16.7	12.3		ug/Kg		74	44 - 120		
4,4'-DDT			16.7	13.1		ug/Kg		78	38 - 120		
Aldrin			16.7	13.1		ug/Kg		78	38 - 120		
alpha-BHC			16.7	11.2		ug/Kg		67	39 - 120		
beta-BHC			16.7	12.9		ug/Kg		77	40 - 120		
Chlordane (.alpha.)			16.7	12.3		ug/Kg		74	47 - 120		
delta-BHC			16.7	12.6		ug/Kg		76	45 - 120		
Dieldrin			16.7	11.0		ug/Kg		66	58 - 120		
Endosulfan I			16.7	13.7		ug/Kg		82	49 - 120		
Endosulfan II			16.7	14.5		ug/Kg		87	55 - 120		
Endosulfan sulfate			16.7	14.6		ug/Kg		88	49 - 124		
Endrin			16.7	12.7		ug/Kg		76	58 - 120		
Heptachlor			16.7	13.1		ug/Kg		79	50 - 120		
Lindane			16.7	12.3		ug/Kg		74	50 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*88*		*45 - 120*
DCB Decachlorobiphenyl	*87*		*45 - 120*
Tetrachloro-m-xylene	*70*		*30 - 124*
Tetrachloro-m-xylene	*66*		*30 - 124*

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

Lab Sample ID: MB 480-728930/1-A
Matrix: Solid
Analysis Batch: 729107

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.25	U	0.25	0.049	mg/Kg		10/18/24 18:25	10/22/24 00:45	1
PCB-1221	0.25	U	0.25	0.049	mg/Kg		10/18/24 18:25	10/22/24 00:45	1
PCB-1232	0.25	U	0.25	0.049	mg/Kg		10/18/24 18:25	10/22/24 00:45	1
PCB-1242	0.25	U	0.25	0.049	mg/Kg		10/18/24 18:25	10/22/24 00:45	1
PCB-1248	0.25	U	0.25	0.049	mg/Kg		10/18/24 18:25	10/22/24 00:45	1
PCB-1254	0.25	U	0.25	0.12	mg/Kg		10/18/24 18:25	10/22/24 00:45	1
PCB-1260	0.25	U	0.25	0.12	mg/Kg		10/18/24 18:25	10/22/24 00:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*111*		*60 - 154*	*10/18/24 18:25*	*10/22/24 00:45*	*1*
Tetrachloro-m-xylene	*106*		*60 - 154*	*10/18/24 18:25*	*10/22/24 00:45*	*1*
DCB Decachlorobiphenyl	*126*		*65 - 174*	*10/18/24 18:25*	*10/22/24 00:45*	*1*
DCB Decachlorobiphenyl	*128*		*65 - 174*	*10/18/24 18:25*	*10/22/24 00:45*	*1*

Lab Sample ID: LCS 480-728930/2-A
Matrix: Solid
Analysis Batch: 729107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728930

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			2.50	3.02		mg/Kg		121	51 - 185		
PCB-1260			2.50	3.38		mg/Kg		135	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*136*		*60 - 154*
Tetrachloro-m-xylene	*125*		*60 - 154*
DCB Decachlorobiphenyl	*146*		*65 - 174*
DCB Decachlorobiphenyl	*149*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-729003/1-A
Matrix: Solid
Analysis Batch: 729296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.0	ug/Kg		10/20/24 07:03	10/22/24 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*10/20/24 07:03*	*10/22/24 13:14*	*1*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*	*10/20/24 07:03*	*10/22/24 13:14*	*1*

Lab Sample ID: LCS 480-729003/2-A
Matrix: Solid
Analysis Batch: 729296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)			66.7	48.3		ug/Kg		73	39 - 125		

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

Lab Sample ID: LCS 480-729003/2-A
Matrix: Solid
Analysis Batch: 729296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729003

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	74		28 - 129
2,4-Dichlorophenylacetic acid	75		28 - 129

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-631678/1-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 631678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.10	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.0	U	2.0	0.50	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0	U	2.0	0.50	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-631678/1-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 631678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.10	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.10	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.80	U	0.80	0.20	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.10	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	1.0	0.25	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.050	ug/Kg		10/21/24 10:05	10/22/24 00:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.10	ug/Kg		10/21/24 10:05	10/22/24 00:41	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96.1*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C5 PFPeA	*86.5*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C5 PFHxA	*95.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C4 PFHpA	*93.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C8 PFOA	*87.5*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C9 PFNA	*104*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C6 PFDA	*100*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C7 PFUnA	*88.7*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C2 PFTeDA	*58.3*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C3 PFBS	*102*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C3 PFHxS	*87.6*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C8 PFOS	*93.5*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C8 PFOSA	*93.0*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
d3-NMeFOSAA	*97.1*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
d5-NEtFOSAA	*95.5*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
M2-4:2 FTS	*136*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
M2-6:2 FTS	*148*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
M2-8:2 FTS	*149*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C3 HFPO-DA	*96.3*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
d7-N-MeFOSE-M	*78.6*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
d9-N-EtFOSE-M	*71.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
d5-NEtPFOSA	*70.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
D3-NMeFOSA	*65.2*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*
13C2-PFDoDA	*78.9*		*20 - 150*	*10/21/24 10:05*	*10/22/24 00:41*	*1*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-631678/3-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	10.0	10.0		ug/Kg		100	40 - 150
Perfluoropentanoic acid (PFPeA)	5.00	5.49		ug/Kg		110	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.62		ug/Kg		105	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.53		ug/Kg		101	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.65		ug/Kg		106	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.64		ug/Kg		105	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	2.72		ug/Kg		109	40 - 150
Perfluoroundecanoic acid (PFUnA)	2.50	2.76		ug/Kg		110	40 - 150
Perfluorododecanoic acid (PFDoA)	2.50	2.74		ug/Kg		110	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.85		ug/Kg		114	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	3.44		ug/Kg		137	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.21	2.19		ug/Kg		99	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.61		ug/Kg		111	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.60		ug/Kg		114	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.38	2.46		ug/Kg		103	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.32	2.28		ug/Kg		98	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	2.39		ug/Kg		100	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	2.08		ug/Kg		86	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	9.10		ug/Kg		97	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	8.55		ug/Kg		90	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	8.65		ug/Kg		90	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.70		ug/Kg		108	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.64		ug/Kg		106	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.46		ug/Kg		98	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.73		ug/Kg		109	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.50		ug/Kg		100	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	22.8		ug/Kg		91	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	25.1		ug/Kg		101	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	9.64		ug/Kg		96	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	10.4		ug/Kg		111	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-631678/3-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631678

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoro-4-methoxybutanoic acid (PFMBA)			5.00	4.93		ug/Kg		99	40 - 150		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			5.00	4.72		ug/Kg		94	40 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			9.32	9.95		ug/Kg		107	40 - 150		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			9.42	9.37		ug/Kg		99	40 - 150		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			4.45	4.65		ug/Kg		105	40 - 150		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			12.5	11.3		ug/Kg		91	40 - 150		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			62.5	47.4		ug/Kg		76	40 - 150		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			62.5	54.1		ug/Kg		87	40 - 150		
Perfluorodecanesulfonic acid (PFDS)			2.41	2.50		ug/Kg		104	40 - 150		
Perfluoro-3-methoxypropanoic acid (PFMPA)			5.00	5.15		ug/Kg		103	40 - 150		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*87.9*		*20 - 150*
13C5 PFPeA	*77.8*		*20 - 150*
13C5 PFHxA	*81.4*		*20 - 150*
13C4 PFHpA	*83.8*		*20 - 150*
13C8 PFOA	*77.9*		*20 - 150*
13C9 PFNA	*85.1*		*20 - 150*
13C6 PFDA	*85.3*		*20 - 150*
13C7 PFUnA	*79.8*		*20 - 150*
13C2 PFTeDA	*54.9*		*20 - 150*
13C3 PFBS	*89.9*		*20 - 150*
13C3 PFHxS	*80.9*		*20 - 150*
13C8 PFOS	*84.9*		*20 - 150*
13C8 PFOSA	*78.4*		*20 - 150*
d3-NMeFOSAA	*89.8*		*20 - 150*
d5-NEtFOSAA	*88.0*		*20 - 150*
M2-4:2 FTS	*119*		*20 - 150*
M2-6:2 FTS	*136*		*20 - 150*
M2-8:2 FTS	*128*		*20 - 150*
13C3 HFPO-DA	*79.3*		*20 - 150*
d7-N-MeFOSE-M	*67.9*		*20 - 150*
d9-N-EtFOSE-M	*61.1*		*20 - 150*
d5-NEtPFOSA	*61.6*		*20 - 150*
D3-NMeFOSA	*58.2*		*20 - 150*
13C2-PFDoDA	*76.5*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-631678/2-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631678

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	0.805		ug/Kg		101	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.439		ug/Kg		110	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.194	J	ug/Kg		97	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.205		ug/Kg		103	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.218		ug/Kg		109	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.210		ug/Kg		105	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.199	J	ug/Kg		99	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.200	0.215		ug/Kg		107	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.218		ug/Kg		109	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.227		ug/Kg		113	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.255		ug/Kg		127	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.173	J	ug/Kg		98	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.198	J	ug/Kg		106	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.204		ug/Kg		112	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.208		ug/Kg		109	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.186	0.183	J	ug/Kg		98	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.192	0.196	J	ug/Kg		102	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.158	J	ug/Kg		82	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.721	J	ug/Kg		96	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.699	J	ug/Kg		92	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.652	J	ug/Kg		85	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.219		ug/Kg		109	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.219		ug/Kg		110	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.190	J	ug/Kg		95	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.218		ug/Kg		109	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.181	J	ug/Kg		91	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.13		ug/Kg		107	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	1.94	J	ug/Kg		97	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	0.768	J	ug/Kg		96	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.810		ug/Kg		107	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-631678/2-A
Matrix: Solid
Analysis Batch: 631763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631678

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoro-4-methoxybutanoic acid (PFMBA)			0.400	0.396	J	ug/Kg		99	40 - 150		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			0.400	0.381	J	ug/Kg		95	40 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			0.746	0.612	J	ug/Kg		82	40 - 150		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			0.754	0.542	J	ug/Kg		72	40 - 150		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			0.356	0.335	J	ug/Kg		94	40 - 150		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			1.00	0.884	J	ug/Kg		88	40 - 150		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			5.00	3.81	J	ug/Kg		76	40 - 150		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			5.00	4.37	J	ug/Kg		87	40 - 150		
Perfluorodecanesulfonic acid (PFDS)			0.193	0.190	J	ug/Kg		99	40 - 150		
Perfluoro-3-methoxypropanoic acid (PFMPA)			0.400	0.415		ug/Kg		104	40 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*92.5*		*20 - 150*
13C5 PFPeA	*83.0*		*20 - 150*
13C5 PFHxA	*87.7*		*20 - 150*
13C4 PFHpA	*88.5*		*20 - 150*
13C8 PFOA	*78.5*		*20 - 150*
13C9 PFNA	*93.2*		*20 - 150*
13C6 PFDA	*93.6*		*20 - 150*
13C7 PFUnA	*85.0*		*20 - 150*
13C2 PFTeDA	*55.2*		*20 - 150*
13C3 PFBS	*96.3*		*20 - 150*
13C3 PFHxS	*87.3*		*20 - 150*
13C8 PFOS	*85.1*		*20 - 150*
13C8 PFOSA	*81.6*		*20 - 150*
d3-NMeFOSAA	*92.0*		*20 - 150*
d5-NEtFOSAA	*87.7*		*20 - 150*
M2-4:2 FTS	*133*		*20 - 150*
M2-6:2 FTS	*141*		*20 - 150*
M2-8:2 FTS	*144*		*20 - 150*
13C3 HFPO-DA	*90.1*		*20 - 150*
d7-N-MeFOSE-M	*69.0*		*20 - 150*
d9-N-EtFOSE-M	*65.3*		*20 - 150*
d5-NEtPFOSA	*65.5*		*20 - 150*
D3-NMeFOSA	*59.3*		*20 - 150*
13C2-PFDoDA	*76.1*		*20 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-728872/1-A
Matrix: Solid
Analysis Batch: 729089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10.5	U ^5+	10.5	9.0	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Antimony	15.7	U	15.7	0.56	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Arsenic	2.1	U	2.1	0.92	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Barium	0.52	U	0.52	0.15	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Beryllium	0.21	U	0.21	0.042	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Calcium	52.4	U	52.4	28.3	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Chromium	0.52	U	0.52	0.38	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Cobalt	0.52	U	0.52	0.10	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Copper	1.0	U ^5+	1.0	0.60	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Iron	10.5	U ^5-	10.5	8.9	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Lead	1.0	U	1.0	0.48	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Magnesium	21.0	U	21.0	8.9	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Manganese	1.0	U	1.0	0.29	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Nickel	5.2	U	5.2	0.26	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Potassium	31.4	U	31.4	25.4	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Silver	0.63	U	0.63	0.21	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Sodium	147	U	147	64.3	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Thallium	6.3	U	6.3	0.80	mg/Kg		10/18/24 16:16	10/20/24 14:50	1
Zinc	2.1	U ^5-	2.1	1.1	mg/Kg		10/18/24 16:16	10/20/24 14:50	1

Lab Sample ID: MB 480-728872/1-A
Matrix: Solid
Analysis Batch: 729230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	4.2	U	4.2	0.84	mg/Kg		10/18/24 16:16	10/21/24 20:05	1
Vanadium	0.52	U	0.52	0.14	mg/Kg		10/18/24 16:16	10/21/24 20:05	1

Lab Sample ID: LCSSRM 480-728872/2-A
Matrix: Solid
Analysis Batch: 729089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728872

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6780	6798		mg/Kg		100.3	47.8 - 151.9
Antimony	127	95.24		mg/Kg		75.0	20.2 - 250.4
Arsenic	311	241.3		mg/Kg		77.6	70.1 - 130.2
Barium	304	297.0		mg/Kg		97.7	75.0 - 125.0
Beryllium	169	142.1		mg/Kg		84.1	75.1 - 124.9
Calcium	5170	4212		mg/Kg		81.5	72.9 - 126.9
Chromium	180	153.4		mg/Kg		85.2	70.0 - 130.0
Cobalt	81.6	72.92		mg/Kg		89.4	75.0 - 125.0
Copper	205	169.5		mg/Kg		82.7	75.1 - 124.9

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

Lab Sample ID: LCSSRM 480-728872/2-A
Matrix: Solid
Analysis Batch: 729089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728872

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Iron	6510	5997		mg/Kg		92.1	11.3 - 202.8
Lead	92.8	82.62		mg/Kg		89.0	81.8 - 118.5
Magnesium	1700	1396		mg/Kg		82.1	55.6 - 144.1
Manganese	531	456.7		mg/Kg		86.0	77.2 - 122.8
Nickel	313	288.1		mg/Kg		92.1	70.0 - 130.0
Potassium	1370	1333		mg/Kg		97.3	52.0 - 148.2
Silver	82.4	67.22		mg/Kg		81.6	71.0 - 128.6
Sodium	486	407.0		mg/Kg		83.7	59.5 - 140.5
Thallium	205	181.5		mg/Kg		88.5	72.2 - 128.3
Zinc	166	138.5		mg/Kg		83.4	70.5 - 130.1

Lab Sample ID: LCSSRM 480-728872/2-A
Matrix: Solid
Analysis Batch: 729230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728872

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	165	121.7		mg/Kg		73.7	67.9 - 132.1
Vanadium	103	92.35		mg/Kg		89.7	68.0 - 132.0

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-728919/1-A
Matrix: Solid
Analysis Batch: 728959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 728919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	U	0.021	0.0048	mg/Kg		10/19/24 09:56	10/19/24 10:18	1

Lab Sample ID: LCSSRM 480-728919/2-A ^10
Matrix: Solid
Analysis Batch: 728959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 728919

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	11.9	10.98		mg/Kg		92.2	59.8 - 139.5

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-1004770/1-A
Matrix: Solid
Analysis Batch: 1004803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1004770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		11/01/24 09:30	11/01/24 12:50	1

Lab Sample ID: LCSI 460-1004770/3-A
Matrix: Solid
Analysis Batch: 1004803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1004770

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	684.3		mg/Kg		97	80 - 120

Lab Sample ID: LCSSRM 460-1004770/2-A
Matrix: Solid
Analysis Batch: 1004803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1004770

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	14.9	13.23		mg/Kg		88.6	84.2 - 114.5

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-729210/1-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.93	U	0.93	0.45	mg/Kg		10/21/24 14:55	10/21/24 19:37	1

Lab Sample ID: LCS 480-729210/3-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.419		mg/Kg		105	29 - 122

Lab Sample ID: LCS 480-729210/4-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.249		mg/Kg		100	29 - 122

Lab Sample ID: LCSSRM 480-729210/2-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729210

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	120.0		mg/Kg		80.0	38.9 - 138.7

GC/MS VOA

Analysis Batch: 728936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	8260C	728938
MB 480-728938/3-A	Method Blank	Total/NA	Solid	8260C	728938
LCS 480-728938/1-A	Lab Control Sample	Total/NA	Solid	8260C	728938

Prep Batch: 728938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	5035A_H	
MB 480-728938/3-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-728938/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

GC/MS Semi VOA

Prep Batch: 728928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	3550C	
MB 480-728928/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-728928/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 729241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	8270D	728928
MB 480-728928/1-A	Method Blank	Total/NA	Solid	8270D	728928
LCS 480-728928/2-A	Lab Control Sample	Total/NA	Solid	8270D	728928

GC Semi VOA

Prep Batch: 728929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	3550C	
MB 480-728929/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-728929/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 728930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	3550C	
MB 480-728930/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-728930/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 729003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	8151A	
MB 480-729003/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-729003/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Analysis Batch: 729100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	8081B	728929
MB 480-728929/1-A	Method Blank	Total/NA	Solid	8081B	728929
LCS 480-728929/2-A	Lab Control Sample	Total/NA	Solid	8081B	728929

GC Semi VOA

Analysis Batch: 729107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	8082A	728930
MB 480-728930/1-A	Method Blank	Total/NA	Solid	8082A	728930
LCS 480-728930/2-A	Lab Control Sample	Total/NA	Solid	8082A	728930

Analysis Batch: 729296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	8151A	729003
MB 480-729003/1-A	Method Blank	Total/NA	Solid	8151A	729003
LCS 480-729003/2-A	Lab Control Sample	Total/NA	Solid	8151A	729003

LCMS

Prep Batch: 631678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	1633 Shake	
MB 240-631678/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-631678/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-631678/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 631763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	Draft-3 1633	631678
MB 240-631678/1-A	Method Blank	Total/NA	Solid	Draft-3 1633	631678
LCS 240-631678/3-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	631678
LLCS 240-631678/2-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	631678

Metals

Prep Batch: 728872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	3050B	
MB 480-728872/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-728872/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 728919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	7471B	
MB 480-728919/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-728919/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 728959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	7471B	728919
MB 480-728919/1-A	Method Blank	Total/NA	Solid	7471B	728919
LCSSRM 480-728919/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	728919

Analysis Batch: 729089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	6010C	728872
MB 480-728872/1-A	Method Blank	Total/NA	Solid	6010C	728872
LCSSRM 480-728872/2-A	Lab Control Sample	Total/NA	Solid	6010C	728872

Metals

Analysis Batch: 729230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	6010C	728872
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	6010C	728872
MB 480-728872/1-A	Method Blank	Total/NA	Solid	6010C	728872
LCSSRM 480-728872/2-A	Lab Control Sample	Total/NA	Solid	6010C	728872

General Chemistry

Analysis Batch: 728901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	Moisture	

Prep Batch: 729210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	9012B	
MB 480-729210/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-729210/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-729210/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-729210/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 729299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	9012B	729210
MB 480-729210/1-A	Method Blank	Total/NA	Solid	9012B	729210
LCS 480-729210/3-A	Lab Control Sample	Total/NA	Solid	9012B	729210
LCS 480-729210/4-A	Lab Control Sample	Total/NA	Solid	9012B	729210
LCSSRM 480-729210/2-A	Lab Control Sample	Total/NA	Solid	9012B	729210

Prep Batch: 1004770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	3060A	
MB 460-1004770/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-1004770/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-1004770/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 1004803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224492-1	R1 MW-1 (2-4')	Total/NA	Solid	7196A	1004770
MB 460-1004770/1-A	Method Blank	Total/NA	Solid	7196A	1004770
LCSI 460-1004770/3-A	Lab Control Sample	Total/NA	Solid	7196A	1004770
LCSSRM 460-1004770/2-A	Lab Control Sample	Total/NA	Solid	7196A	1004770

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224492-1
Project/Site: The Nest Site Analysis

Client Sample ID: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1
Date Collected: 10/17/24 10:00
Matrix: Solid
Date Received: 10/17/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	728901	JLS	EET BUF	10/18/24 14:23

Client Sample ID: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1
Date Collected: 10/17/24 10:00
Matrix: Solid
Date Received: 10/17/24 16:10
Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			728938	ZN	EET BUF	10/19/24 08:40
Total/NA	Analysis	8260C		1	728936	ZN	EET BUF	10/19/24 13:33
Total/NA	Prep	3550C			728928	SJM	EET BUF	10/18/24 18:09
Total/NA	Analysis	8270D		5	729241	JMM	EET BUF	10/22/24 17:32
Total/NA	Prep	3550C			728929	SJM	EET BUF	10/18/24 18:15
Total/NA	Analysis	8081B		20	729100	JLS	EET BUF	10/21/24 14:30
Total/NA	Prep	3550C			728930	SJM	EET BUF	10/18/24 18:25
Total/NA	Analysis	8082A		1	729107	H9RU	EET BUF	10/22/24 03:30
Total/NA	Prep	8151A			729003	DP	EET BUF	10/20/24 07:03
Total/NA	Analysis	8151A		1	729296	JLS	EET BUF	10/22/24 15:20
Total/NA	Prep	1633 Shake			631678	CLB	EET CLE	10/21/24 10:05
Total/NA	Analysis	Draft-3 1633		1	631763	LD	EET CLE	10/22/24 03:52
Total/NA	Prep	3050B			728872	ET	EET BUF	10/18/24 16:16
Total/NA	Analysis	6010C		1	729089	BMB	EET BUF	10/20/24 15:35
Total/NA	Prep	3050B			728872	ET	EET BUF	10/18/24 16:16
Total/NA	Analysis	6010C		1	729230	BMB	EET BUF	10/21/24 20:12
Total/NA	Prep	3050B			728872	ET	EET BUF	10/18/24 16:16
Total/NA	Analysis	6010C		5	729230	BMB	EET BUF	10/21/24 20:14
Total/NA	Prep	7471B			728919	ESB	EET BUF	10/19/24 09:56
Total/NA	Analysis	7471B		1	728959	ESB	EET BUF	10/19/24 10:42
Total/NA	Prep	3060A			1004770	MNP	EET EDI	11/01/24 09:30 - 11/01/24 10:30 [1]
Total/NA	Analysis	7196A		1	1004803	MNP	EET EDI	11/01/24 14:55
Total/NA	Prep	9012B			729210	AM	EET BUF	10/21/24 14:55
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/21/24 19:46

[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
EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224492-1
Project/Site: The Nest Site Analysis

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
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
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
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	12-31-24

Laboratory: Eurofins Edison

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-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	04-01-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-31-24
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224492-1
Project/Site: The Nest Site Analysis

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
Draft-3 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
7196A	Chromium, Hexavalent	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET EDI
3550C	Ultrasonic Extraction	SW846	EET BUF
5035A_H	Closed System Purge and Trap	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable, Distillation	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

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224492-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224492-1	R1 MW-1 (2-4')	Solid	10/17/24 10:00	10/17/24 16:10

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: Jacob Cox	Lab PM: T. Beninati	Carrier Tracking No(s):	COC No: Syracuse #775
Client Contact: Jacob Cox	Phone: 7164180792	E-Mail: John.Beninati@eurofins.com	State of Origin:	Page:
Company: BE3 (Bridges Eng.)		Accreditations Required (See note):		Job #:
Address: 960 Busti Ave	Due Date Requested:			
City: Buffalo NY	TAT Requested (days): Standard			
State, Zip: NY 14213	PO #:			
Phone: 7164180192				
Email: jcox@be3corp.com	WO #:			
Site: The Nest Site Analysis-Soil	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 TCL VOC + TICs	6010C, 7471B, 8081B, 8082A	8151A, 8270D	7196A, 9012B	1633_Final	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
RI MW-1 (2-4')	10/17	10:00	G	Solid			X	X	X	X	X		Added Hex Chrom + Cyanide

480-224492 Chain of Custody

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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
☒ 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) IV Cat B

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Jacob Cox	Date/Time: 10/17 16:18	Company: BE3	Received by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 10/17/24 16:18	Company: TBD	
Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 5.0 IR#SC1C1			

Ver: 06/08/2021

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:	Lab PM: Beninati John	Carrier Tracking No(s):	COC No: 480-89927 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Beninati@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 #: 480-224492-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/30/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: The Nest Site Analysis	Project #: 48028073			
Site:	SSOW#:			

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:						
R1 MW-1 (2-4) (480-224492-1)	10/17/24	10:00 Eastern	G	Solid			X	1	

Analysis Requested

Preservation Codes.

Other:

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: MELISSA LOAR	Date/Time:	Company
	10-18-24 1600			10-19-24 930	
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 – Cleveland Sample Receipt Form/Narrative Login # :

Barberton Facility

Client EEA Buffalo Site Name

Cooler Received on 10 19.24 Opened on 10 19.24

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 # 9 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 # 17 (CF +0.1 °C) Observed Cooler Temp 2.3 °C Corrected Cooler Temp 2.4 °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# HC447997
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

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-89934.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-224492-1
Address: 777 New Durham Road,	Due Date Requested: 10/30/2024			
City: Edison	TAT Requested (days):			
State, Zip: NJ 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: The Nest Site Analysis	Project #: 48028073			
Site:	SSOW#:			

Analysis Requested

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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
R1 MW-1 (2-4) (480-224492-1)	10/17/24	10:00 Eastern	G	Solid			X	1	

Preservation Codes: Other

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: Fedex

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	MS	10-15-24 1600		BPoe	10/16/24 4:50	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:

Ver: 05/06/2024

IR-910-12 15-17

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224492-1

Login Number: 224492
List Number: 1
Creator: Stapleton, Kaitlyn

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	5.0 IR#SC ice
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	Brydges Engineering
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224492-1

Login Number: 224492
List Number: 2
Creator: Loar, Malissa

List Source: Eurofins Cleveland
List Creation: 10/19/24 12:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224492-1

Login Number: 224492
List Number: 3
Creator: Armbruster, Chris

List Source: Eurofins Edison
List Creation: 10/21/24 11:31 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0/1.2°, 1.5/1.7°C IR9
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213
Generated 11/12/2024 4:59:45 PM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-224566-1

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.

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Authorization

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Qualifiers

GC/MS 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.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
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.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 480-224566-1 Eurofins Buffalo

Job Narrative
480-224566-1

Receipt
The samples were received on 10/18/2024 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.9º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-729066 recovered above the upper control limit for Chloromethane, Cyclohexane, Trichlorofluoromethane and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 12I-MW-4 (1-3') (480-224566-1), 12I-MW-4 (10-12') (480-224566-2) and 12I-MW-2 (2-4') (480-224566-3).

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: 12I-MW-4 (10-12') (480-224566-2) and 12I-MW-2 (2-4') (480-224566-3). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-729559 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 12I-MW-4 (1-3') (480-224566-1), 12I-MW-4 (10-12') (480-224566-2) and 12I-MW-2 (2-4') (480-224566-3).

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 sample contained an allowable number of surrogate compounds outside limits: 12I-MW-2 (2-4') (480-224566-3). These results have been reported and qualified.

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Atrazine. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-729224 and analytical batch 480-729434 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

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

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample matrix: 12I-MW-4 (10-12') (480-224566-2) and 12I-MW-2 (2-4') (480-224566-3). 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: (480-224566-B-3-G MS) and (480-224566-B-3-H 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 method blank for preparation batch 480-729364 and analytical batch 480-729407 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.

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

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

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-729538 and analytical batch 480-729607 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Job ID: 480-224566-1 (Continued) Eurofins Buffalo

Organic Prep
Method 3550C: Insufficient sample volume was provided for the following sample for the analysis: 12I-MW-4 (1-3') (480-224566-1).

Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: 12I-MW-4 (10-12') (480-224566-2), 12I-MW-2 (2-4') (480-224566-3), (480-224566-B-3 MS) and (480-224566-B-3 MSD).

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224566-1
Project/Site: The Nest Site Analysis

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.6	J vs	25	4.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.39	J vs	5.0	0.25	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.50	J vs B	5.0	0.31	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.6	J vs	5.0	0.38	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.3	J vs	10	0.84	ug/Kg	1	☼	8260C	Total/NA
Butyl benzyl phthalate	320	J	980	160	ug/Kg	1	☼	8270D	Total/NA
delta-BHC	0.64	J	1.7	0.31	ug/Kg	1	☼	8081B	Total/NA
Perfluorooctanoic acid (PFOA)	0.058	J	0.17	0.041	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.078	J	0.17	0.041	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	3220		10.4	9.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.3		2.1	0.92	mg/Kg	1	☼	6010C	Total/NA
Barium	15.6		0.52	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.17	J	0.21	0.042	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.51		0.21	0.073	mg/Kg	1	☼	6010C	Total/NA
Calcium	178000		260	140	mg/Kg	5	☼	6010C	Total/NA
Chromium	5.2		0.52	0.37	mg/Kg	1	☼	6010C	Total/NA
Cobalt	1.5		0.52	0.10	mg/Kg	1	☼	6010C	Total/NA
Copper	5.4		1.0	0.59	mg/Kg	1	☼	6010C	Total/NA
Iron	4960		10.4	8.8	mg/Kg	1	☼	6010C	Total/NA
Lead	66.4		1.0	0.48	mg/Kg	1	☼	6010C	Total/NA
Magnesium	99100		104	44.1	mg/Kg	5	☼	6010C	Total/NA
Manganese	372		1.0	0.29	mg/Kg	1	☼	6010C	Total/NA
Nickel	5.1	J	5.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1710		31.2	25.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	256		146	63.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	6.7		0.52	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	147		2.1	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.014	J	0.019	0.0045	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 12I-MW-4 (10-12')
Lab Sample ID: 480-224566-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.2	J vs	25	1.9	ug/Kg	1	☼	8260C	Total/NA
Acetone	22	J vs	25	4.3	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.47	J vs	5.1	0.25	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.49	J vs B	5.1	0.32	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	2.1	J vs	5.1	0.35	ug/Kg	1	☼	8260C	Total/NA
Toluene	6.0	vs	5.1	0.39	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	20	vs	10	0.86	ug/Kg	1	☼	8260C	Total/NA
Butyl benzyl phthalate	5200		860	140	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	150	J	860	91	ug/Kg	5	☼	8270D	Total/NA
Pyrene	140	J	860	100	ug/Kg	5	☼	8270D	Total/NA
Aluminum	4830		10.8	9.3	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.7		2.2	0.95	mg/Kg	1	☼	6010C	Total/NA
Barium	31.0		0.54	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.21	J	0.22	0.043	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.72		0.22	0.076	mg/Kg	1	☼	6010C	Total/NA
Calcium	160000		271	146	mg/Kg	5	☼	6010C	Total/NA
Chromium	10.1		0.54	0.39	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.4		0.54	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	9.6		1.1	0.62	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: 12I-MW-4 (10-12') (Continued) — Lab Sample ID: 480-224566-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	6520		10.8	9.2	mg/Kg	1	☼	6010C	Total/NA
Lead	76.9		1.1	0.50	mg/Kg	1	☼	6010C	Total/NA
Magnesium	75600		108	45.9	mg/Kg	5	☼	6010C	Total/NA
Manganese	470		1.1	0.30	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.0		5.4	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	1970		32.5	26.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	340		152	66.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	8.1		0.54	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	175		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.041		0.021	0.0048	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 12I-MW-2 (2-4') — Lab Sample ID: 480-224566-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.53	J vs B	5.1	0.31	ug/Kg	1	☼	8260C	Total/NA
Butyl benzyl phthalate	1800		1800	290	ug/Kg	10	☼	8270D	Total/NA
4,4'-DDT	11	J B	35	8.1	ug/Kg	20	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.045	J	0.18	0.044	ug/Kg	1	☼	Draft-3 1633	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.082	J	0.18	0.044	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	5260		10.5	9.1	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.3	F1	2.1	0.93	mg/Kg	1	☼	6010C	Total/NA
Barium	25.8	F1	0.53	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.23	F1	0.21	0.042	mg/Kg	1	☼	6010C	Total/NA
Cadmium	2.9	F1	0.21	0.074	mg/Kg	1	☼	6010C	Total/NA
Calcium	140000		263	142	mg/Kg	5	☼	6010C	Total/NA
Chromium	7.1	F1	0.53	0.38	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.7	F1	0.53	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	8.3	F1	1.1	0.60	mg/Kg	1	☼	6010C	Total/NA
Iron	9090		10.5	8.9	mg/Kg	1	☼	6010C	Total/NA
Lead	47.9	F1	1.1	0.48	mg/Kg	1	☼	6010C	Total/NA
Magnesium	64900		105	44.6	mg/Kg	5	☼	6010C	Total/NA
Manganese	444		1.1	0.29	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.9	F1	5.3	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1910	F1	31.6	25.5	mg/Kg	1	☼	6010C	Total/NA
Silver	0.21	J F1	0.63	0.21	mg/Kg	1	☼	6010C	Total/NA
Sodium	241	F1	147	64.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	8.0	F1	0.53	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	643		2.1	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.026		0.021	0.0047	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1
Date Collected: 10/18/24 08:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U vs	5.0	0.36	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,1,2,2-Tetrachloroethane	5.0	U vs	5.0	0.81	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,1,2-Trichloroethane	5.0	U vs	5.0	0.65	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U vs	5.0	1.1	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,1-Dichloroethane	5.0	U vs	5.0	0.61	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,1-Dichloroethene	5.0	U vs	5.0	0.61	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,2,4-Trichlorobenzene	5.0	U vs	5.0	0.30	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,2-Dibromo-3-Chloropropane	5.0	U vs	5.0	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,2-Dichlorobenzene	5.0	U vs	5.0	0.39	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,2-Dichloroethane	5.0	U vs	5.0	0.25	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,2-Dichloropropane	5.0	U vs	5.0	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,3-Dichlorobenzene	5.0	U vs	5.0	0.26	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,4-Dichlorobenzene	5.0	U vs	5.0	0.70	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
2-Butanone (MEK)	25	U vs	25	1.8	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
2-Hexanone	25	U vs	25	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
4-Methyl-2-pentanone (MIBK)	25	U vs	25	1.6	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Acetone	**6.6**	**J vs**	25	4.2	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Benzene	**0.39**	**J vs**	5.0	0.25	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Bromodichloromethane	5.0	U vs	5.0	0.67	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Bromoform	5.0	U vs	5.0	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Bromomethane	5.0	U vs	5.0	0.45	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Carbon disulfide	5.0	U vs	5.0	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Carbon tetrachloride	5.0	U vs	5.0	0.49	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Chlorobenzene	5.0	U vs	5.0	0.66	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Dibromochloromethane	5.0	U vs	5.0	0.64	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Chloroethane	5.0	U vs	5.0	1.1	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Chloroform	**0.50**	**J vs B**	5.0	0.31	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Chloromethane	5.0	U vs	5.0	0.30	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
cis-1,2-Dichloroethene	5.0	U vs	5.0	0.64	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
cis-1,3-Dichloropropene	5.0	U vs	5.0	0.72	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Cyclohexane	5.0	U vs	5.0	0.70	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Dichlorodifluoromethane	5.0	U vs	5.0	0.41	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Ethylbenzene	5.0	U vs	5.0	0.35	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
1,2-Dibromoethane	5.0	U vs	5.0	0.64	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Isopropylbenzene	5.0	U vs	5.0	0.76	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Methyl acetate	25	U vs	25	3.0	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Methyl tert-butyl ether	5.0	U vs	5.0	0.49	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Methylcyclohexane	5.0	U vs	5.0	0.76	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Methylene Chloride	5.0	U vs	5.0	2.3	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Styrene	5.0	U vs	5.0	0.25	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Tetrachloroethene	5.0	U vs	5.0	0.67	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Toluene	**1.6**	**J vs**	5.0	0.38	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
trans-1,2-Dichloroethene	5.0	U vs	5.0	0.52	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
trans-1,3-Dichloropropene	5.0	U vs	5.0	2.2	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Trichloroethene	5.0	U vs	5.0	1.1	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Trichlorofluoromethane	5.0	U vs	5.0	0.47	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Vinyl chloride	5.0	U vs	5.0	0.61	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1
Xylenes, Total	**1.3**	**J vs**	10	0.84	ug/Kg	☼	10/20/24 17:07	10/21/24 01:42	1

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1
Date Collected: 10/18/24 08:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 99.1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	10/20/24 17:07	10/21/24 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		71 - 125	10/20/24 17:07	10/21/24 01:42	1
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	10/20/24 17:07	10/21/24 01:42	1
4-Bromofluorobenzene (Surr)	93		72 - 126	10/20/24 17:07	10/21/24 01:42	1
Dibromofluoromethane (Surr)	112		60 - 140	10/20/24 17:07	10/21/24 01:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	580	U	580	320	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2,4,5-Trichlorophenol	980	U	980	270	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2,4,6-Trichlorophenol	980	U	980	200	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2,4-Dichlorophenol	980	U	980	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2,4-Dimethylphenol	980	U	980	240	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2,4-Dinitrophenol	9600	U	9600	4500	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2,4-Dinitrotoluene	980	U	980	200	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2,6-Dinitrotoluene	980	U	980	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2-Chloronaphthalene	980	U	980	160	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2-Chlorophenol	1900	U	1900	180	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2-Methylnaphthalene	980	U	980	200	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2-Methylphenol	980	U	980	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2-Nitroaniline	1900	U	1900	140	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
2-Nitrophenol	980	U	980	280	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
3,3'-Dichlorobenzidine	1900	U	1900	1200	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
3-Nitroaniline	1900	U	1900	270	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
4,6-Dinitro-2-methylphenol	1900	U	1900	980	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
4-Bromophenyl phenyl ether	980	U	980	140	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
4-Chloro-3-methylphenol	980	U	980	240	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
4-Chloroaniline	980	U	980	240	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
4-Chlorophenyl phenyl ether	980	U	980	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
4-Methylphenol	1900	U	1900	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
4-Nitroaniline	1900	U	1900	520	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
4-Nitrophenol	1900	U	1900	690	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Acenaphthene	980	U	980	140	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Acenaphthylene	980	U	980	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Acetophenone	980	U	980	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Anthracene	980	U	980	240	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Atrazine	980	U	980	340	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Benzaldehyde	980	U	980	780	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Benzo[a]anthracene	980	U	980	98	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Benzo[a]pyrene	980	U	980	140	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Benzo[b]fluoranthene	980	U	980	160	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Benzo[g,h,i]perylene	980	U	980	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Benzo[k]fluoranthene	980	U	980	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Biphenyl	980	U	980	140	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
bis (2-chloroisopropyl) ether	980	U	980	200	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Bis(2-chloroethoxy)methane	980	U	980	210	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Bis(2-chloroethyl)ether	980	U	980	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Bis(2-ethylhexyl) phthalate	980	U	980	340	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1
Date Collected: 10/18/24 08:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	**320**	**J**	980	160	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Caprolactam	980	U	980	300	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Carbazole	980	U	980	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Chrysene	980	U	980	220	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Dibenz(a,h)anthracene	980	U	980	170	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Dibenzofuran	980	U	980	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Diethyl phthalate	980	U	980	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Dimethyl phthalate	980	U	980	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Di-n-butyl phthalate	980	U	980	170	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Di-n-octyl phthalate	980	U	980	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Fluoranthene	980	U	980	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Fluorene	980	U	980	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Hexachlorobenzene	980	U	980	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Hexachlorobutadiene	980	U	980	140	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Hexachlorocyclopentadiene	980	U	980	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Hexachloroethane	980	U	980	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Indeno[1,2,3-cd]pyrene	980	U	980	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Isophorone	980	U	980	210	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Naphthalene	980	U	980	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Nitrobenzene	980	U	980	110	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
N-Nitrosodi-n-propylamine	980	U	980	170	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
N-Nitrosodiphenylamine	980	U	980	800	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Pentachlorophenol	1900	U	1900	980	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Phenanthrene	980	U	980	140	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Phenol	980	U	980	150	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1
Pyrene	980	U	980	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*26 - 143*	*10/22/24 06:55*	*10/24/24 11:33*	*1*
2-Fluorobiphenyl (Surr)	*86*		*50 - 121*	*10/22/24 06:55*	*10/24/24 11:33*	*1*
2-Fluorophenol (Surr)	*85*		*36 - 120*	*10/22/24 06:55*	*10/24/24 11:33*	*1*
Nitrobenzene-d5 (Surr)	*81*		*40 - 121*	*10/22/24 06:55*	*10/24/24 11:33*	*1*
Phenol-d5 (Surr)	*89*		*41 - 120*	*10/22/24 06:55*	*10/24/24 11:33*	*1*
p-Terphenyl-d14 (Surr)	*91*		*46 - 143*	*10/22/24 06:55*	*10/24/24 11:33*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.7	U	1.7	0.32	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
4,4'-DDE	1.7	U	1.7	0.35	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
4,4'-DDT	1.7	U	1.7	0.39	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
Aldrin	1.7	U	1.7	0.41	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
alpha-BHC	1.7	U	1.7	0.30	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
beta-BHC	1.7	U	1.7	0.30	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
Chlordane (.alpha.)	1.7	U	1.7	0.83	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
delta-BHC	**0.64**	**J**	1.7	0.31	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
Dieldrin	1.7	U	1.7	0.40	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
Endosulfan I	1.7	U	1.7	0.32	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
Endosulfan II	1.7	U	1.7	0.30	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
Endosulfan sulfate	1.7	U	1.7	0.31	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
Endrin	1.7	U	1.7	0.33	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1

Client Sample ID: 12I-MW-4 (1-3')
Date Collected: 10/18/24 08:40
Date Received: 10/18/24 16:20

Lab Sample ID: 480-224566-1
Matrix: Solid
Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	1.7	U	1.7	0.36	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1
Lindane	1.7	U	1.7	0.31	ug/Kg	☼	10/22/24 17:45	10/23/24 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*45 - 120*	*10/22/24 17:45*	*10/23/24 12:43*	*1*
DCB Decachlorobiphenyl	*85*		*45 - 120*	*10/22/24 17:45*	*10/23/24 12:43*	*1*
Tetrachloro-m-xylene	*66*		*30 - 124*	*10/22/24 17:45*	*10/23/24 12:43*	*1*
Tetrachloro-m-xylene	*69*		*30 - 124*	*10/22/24 17:45*	*10/23/24 12:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.22	U	0.22	0.042	mg/Kg	☼	10/22/24 17:48	10/23/24 19:19	1
PCB-1221	0.22	U	0.22	0.042	mg/Kg	☼	10/22/24 17:48	10/23/24 19:19	1
PCB-1232	0.22	U	0.22	0.042	mg/Kg	☼	10/22/24 17:48	10/23/24 19:19	1
PCB-1242	0.22	U	0.22	0.042	mg/Kg	☼	10/22/24 17:48	10/23/24 19:19	1
PCB-1248	0.22	U	0.22	0.042	mg/Kg	☼	10/22/24 17:48	10/23/24 19:19	1
PCB-1254	0.22	U	0.22	0.10	mg/Kg	☼	10/22/24 17:48	10/23/24 19:19	1
PCB-1260	0.22	U	0.22	0.10	mg/Kg	☼	10/22/24 17:48	10/23/24 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*126*		*60 - 154*	*10/22/24 17:48*	*10/23/24 19:19*	*1*
Tetrachloro-m-xylene	*99*		*60 - 154*	*10/22/24 17:48*	*10/23/24 19:19*	*1*
DCB Decachlorobiphenyl	*112*		*65 - 174*	*10/22/24 17:48*	*10/23/24 19:19*	*1*
DCB Decachlorobiphenyl	*88*		*65 - 174*	*10/22/24 17:48*	*10/23/24 19:19*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	32	U	32	12	ug/Kg	☼	10/20/24 07:03	10/22/24 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*10/20/24 07:03*	*10/22/24 15:39*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*10/20/24 07:03*	*10/22/24 15:39*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.66	U	0.66	0.17	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluoropentanoic acid (PFPeA)	0.33	U	0.33	0.083	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorooctanoic acid (PFOA)	**0.058**	**J**	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1
Date Collected: 10/18/24 08:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 99.1

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorooctanesulfonic acid (PFOS)	**0.078**	**J**	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.66	U	0.66	0.17	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.66	U	0.66	0.17	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.66	U	0.66	0.17	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.41	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.41	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.66	U	0.66	0.17	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.66	U	0.66	0.17	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.33	U	0.33	0.083	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.33	U	0.33	0.083	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.66	U	0.66	0.17	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.66	U	0.66	0.17	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.33	U	0.33	0.083	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.83	U	0.83	0.21	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.1	U	4.1	1.0	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.1	U	4.1	1.0	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.041	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.33	U	0.33	0.083	ug/Kg	☼	10/25/24 08:10	10/28/24 17:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86.9*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C5 PFPeA	*87.1*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C5 PFHxA	*87.1*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C4 PFHpA	*86.7*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C8 PFOA	*88.7*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1
Date Collected: 10/18/24 08:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 99.1

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C9 PFNA	*86.4*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C6 PFDA	*86.8*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C7 PFUnA	*82.5*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C2 PFTeDA	*63.8*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C3 PFBS	*86.2*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C3 PFHxS	*87.5*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C8 PFOS	*85.5*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C8 PFOSA	*85.1*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
d3-NMeFOSAA	*82.3*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
d5-NEtFOSAA	*78.7*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
M2-4:2 FTS	*98.4*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
M2-6:2 FTS	*95.1*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
M2-8:2 FTS	*94.5*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C3 HFPO-DA	*92.1*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
d7-N-MeFOSE-M	*84.9*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
d9-N-EtFOSE-M	*78.7*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
d5-NEtPFOSA	*69.0*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
D3-NMeFOSA	*71.4*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*
13C2-PFDoDA	*79.1*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:01*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3220**		10.4	9.0	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Antimony	15.6	U	15.6	0.55	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Arsenic	**2.3**		2.1	0.92	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Barium	**15.6**		0.52	0.15	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Beryllium	**0.17**	**J**	0.21	0.042	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Cadmium	**0.51**		0.21	0.073	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Calcium	**178000**		260	140	mg/Kg	☼	10/20/24 12:44	10/22/24 14:39	5
Chromium	**5.2**		0.52	0.37	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Cobalt	**1.5**		0.52	0.10	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Copper	**5.4**		1.0	0.59	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Iron	**4960**		10.4	8.8	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Lead	**66.4**		1.0	0.48	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Magnesium	**99100**		104	44.1	mg/Kg	☼	10/20/24 12:44	10/22/24 14:39	5
Manganese	**372**		1.0	0.29	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Nickel	**5.1**	**J**	5.2	0.26	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Potassium	**1710**		31.2	25.2	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Selenium	4.2	U	4.2	0.83	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Silver	0.62	U	0.62	0.21	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Sodium	**256**		146	63.8	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Thallium	6.2	U	6.2	0.79	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Vanadium	**6.7**		0.52	0.14	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1
Zinc	**147**		2.1	1.1	mg/Kg	☼	10/20/24 12:44	10/21/24 17:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.019	0.0045	mg/Kg	☼	10/22/24 10:00	10/22/24 12:46	1

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1
Date Collected: 10/18/24 08:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 99.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.0	U	2.0	0.84	mg/Kg	☼	11/11/24 09:15	11/11/24 10:33	1
Cyanide, Total (SW846 9012B)	0.93	U F1	0.93	0.45	mg/Kg	☼	10/31/24 14:10	10/31/24 18:14	1

Client Sample ID: 12I-MW-4 (10-12')
Lab Sample ID: 480-224566-2
Date Collected: 10/18/24 09:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.1	U vs	5.1	0.37	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,1,2,2-Tetrachloroethane	5.1	U vs	5.1	0.83	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,1,2-Trichloroethane	5.1	U vs	5.1	0.66	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U vs	5.1	1.2	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,1-Dichloroethane	5.1	U vs	5.1	0.62	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,1-Dichloroethene	5.1	U vs	5.1	0.62	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,2,4-Trichlorobenzene	5.1	U vs	5.1	0.31	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,2-Dibromo-3-Chloropropane	5.1	U vs	5.1	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,2-Dichlorobenzene	5.1	U vs	5.1	0.40	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,2-Dichloroethane	5.1	U vs	5.1	0.26	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,2-Dichloropropane	5.1	U vs	5.1	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,3-Dichlorobenzene	5.1	U vs	5.1	0.26	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,4-Dichlorobenzene	5.1	U vs	5.1	0.71	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
2-Butanone (MEK)	**4.2**	**J vs**	25	1.9	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
2-Hexanone	25	U vs	25	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
4-Methyl-2-pentanone (MIBK)	25	U vs	25	1.7	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Acetone	**22**	**J vs**	25	4.3	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Benzene	**0.47**	**J vs**	5.1	0.25	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Bromodichloromethane	5.1	U vs	5.1	0.68	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Bromoform	5.1	U vs	5.1	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Bromomethane	5.1	U vs	5.1	0.46	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Carbon disulfide	5.1	U vs	5.1	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Carbon tetrachloride	5.1	U vs	5.1	0.49	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Chlorobenzene	5.1	U vs	5.1	0.67	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Dibromochloromethane	5.1	U vs	5.1	0.65	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Chloroethane	5.1	U vs	5.1	1.2	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Chloroform	**0.49**	**J vs B**	5.1	0.32	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Chloromethane	5.1	U vs	5.1	0.31	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
cis-1,2-Dichloroethene	5.1	U vs	5.1	0.65	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
cis-1,3-Dichloropropene	5.1	U vs	5.1	0.73	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Cyclohexane	5.1	U vs	5.1	0.71	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Dichlorodifluoromethane	5.1	U vs	5.1	0.42	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Ethylbenzene	**2.1**	**J vs**	5.1	0.35	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
1,2-Dibromoethane	5.1	U vs	5.1	0.65	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Isopropylbenzene	5.1	U vs	5.1	0.77	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Methyl acetate	25	U vs	25	3.1	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Methyl tert-butyl ether	5.1	U vs	5.1	0.50	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Methylcyclohexane	5.1	U vs	5.1	0.77	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Methylene Chloride	5.1	U vs	5.1	2.3	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Styrene	5.1	U vs	5.1	0.25	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Tetrachloroethene	5.1	U vs	5.1	0.68	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1

Client Sample ID: 12I-MW-4 (10-12')
Lab Sample ID: 480-224566-2
Date Collected: 10/18/24 09:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**6.0**	**vs**	5.1	0.39	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
trans-1,2-Dichloroethene	5.1	U vs	5.1	0.53	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
trans-1,3-Dichloropropene	5.1	U vs	5.1	2.2	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Trichloroethene	5.1	U vs	5.1	1.1	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Trichlorofluoromethane	5.1	U vs	5.1	0.48	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Vinyl chloride	5.1	U vs	5.1	0.62	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1
Xylenes, Total	**20**	**vs**	10	0.86	ug/Kg	☼	10/20/24 17:07	10/21/24 02:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzene, 1,2,3-trimethyl-	*9.7*	*T J N*	*ug/Kg*	☼	*10.26*	*526-73-8*	*10/20/24 17:07*	*10/21/24 02:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*71 - 125*	*10/20/24 17:07*	*10/21/24 02:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*10/20/24 17:07*	*10/21/24 02:06*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*	*10/20/24 17:07*	*10/21/24 02:06*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*	*10/20/24 17:07*	*10/21/24 02:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	510	U	510	280	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2,4,5-Trichlorophenol	860	U	860	230	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2,4,6-Trichlorophenol	860	U	860	170	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2,4-Dichlorophenol	860	U	860	91	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2,4-Dimethylphenol	860	U	860	210	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2,4-Dinitrophenol	8400	U	8400	4000	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2,4-Dinitrotoluene	860	U	860	180	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2,6-Dinitrotoluene	860	U	860	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2-Chloronaphthalene	860	U	860	140	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2-Chlorophenol	1700	U	1700	160	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2-Methylnaphthalene	860	U	860	170	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2-Methylphenol	860	U	860	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2-Nitroaniline	1700	U	1700	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
2-Nitrophenol	860	U	860	240	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
3,3'-Dichlorobenzidine	1700	U	1700	1000	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
3-Nitroaniline	1700	U	1700	240	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
4,6-Dinitro-2-methylphenol	1700	U	1700	860	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
4-Bromophenyl phenyl ether	860	U	860	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
4-Chloro-3-methylphenol	860	U	860	210	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
4-Chloroaniline	860	U	860	210	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
4-Chlorophenyl phenyl ether	860	U	860	110	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
4-Methylphenol	1700	U	1700	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
4-Nitroaniline	1700	U	1700	450	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
4-Nitrophenol	1700	U	1700	600	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Acenaphthene	860	U	860	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Acenaphthylene	860	U	860	110	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Acetophenone	860	U	860	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Anthracene	860	U	860	210	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Atrazine	860	U	860	300	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Benzaldehyde	860	U	860	690	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Benzo[a]anthracene	860	U	860	86	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5

Client Sample ID: 12I-MW-4 (10-12')
Lab Sample ID: 480-224566-2
Date Collected: 10/18/24 09:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	860	U	860	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Benzo[b]fluoranthene	860	U	860	140	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Benzo[g,h,i]perylene	860	U	860	91	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Benzo[k]fluoranthene	860	U	860	110	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Biphenyl	860	U	860	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
bis (2-chloroisopropyl) ether	860	U	860	170	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Bis(2-chloroethoxy)methane	860	U	860	180	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Bis(2-chloroethyl)ether	860	U	860	110	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Bis(2-ethylhexyl) phthalate	860	U	860	290	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Butyl benzyl phthalate	**5200**		860	140	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Caprolactam	860	U	860	260	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Carbazole	860	U	860	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Chrysene	860	U	860	190	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Dibenz(a,h)anthracene	860	U	860	150	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Dibenzofuran	860	U	860	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Diethyl phthalate	860	U	860	110	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Dimethyl phthalate	860	U	860	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Di-n-butyl phthalate	860	U	860	150	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Di-n-octyl phthalate	860	U	860	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Fluoranthene	**150**	**J**	860	91	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Fluorene	860	U	860	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Hexachlorobenzene	860	U	860	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Hexachlorobutadiene	860	U	860	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Hexachlorocyclopentadiene	860	U	860	120	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Hexachloroethane	860	U	860	110	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Indeno[1,2,3-cd]pyrene	860	U	860	110	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Isophorone	860	U	860	180	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Naphthalene	860	U	860	110	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Nitrobenzene	860	U	860	96	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
N-Nitrosodi-n-propylamine	860	U	860	150	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
N-Nitrosodiphenylamine	860	U	860	700	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Pentachlorophenol	1700	U	1700	860	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Phenanthrene	860	U	860	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Phenol	860	U	860	130	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5
Pyrene	**140**	**J**	860	100	ug/Kg	☼	10/22/24 06:55	10/24/24 11:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*54*		*26 - 143*	*10/22/24 06:55*	*10/24/24 11:58*	*5*
2-Fluorobiphenyl (Surr)	*89*		*50 - 121*	*10/22/24 06:55*	*10/24/24 11:58*	*5*
2-Fluorophenol (Surr)	*92*		*36 - 120*	*10/22/24 06:55*	*10/24/24 11:58*	*5*
Nitrobenzene-d5 (Surr)	*89*		*40 - 121*	*10/22/24 06:55*	*10/24/24 11:58*	*5*
Phenol-d5 (Surr)	*92*		*41 - 120*	*10/22/24 06:55*	*10/24/24 11:58*	*5*
p-Terphenyl-d14 (Surr)	*97*		*46 - 143*	*10/22/24 06:55*	*10/24/24 11:58*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	35	U	35	6.7	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
4,4'-DDE	35	U	35	7.2	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
4,4'-DDT	35	U	35	8.1	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
Aldrin	35	U	35	8.5	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20

Client Sample ID: 12I-MW-4 (10-12')
Date Collected: 10/18/24 09:40
Date Received: 10/18/24 16:20

Lab Sample ID: 480-224566-2
Matrix: Solid
Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	35	U	35	6.2	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
beta-BHC	35	U	35	6.2	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
Chlordane (.alpha.)	35	U	35	17	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
delta-BHC	35	U	35	6.4	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
Dieldrin	35	U	35	8.3	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
Endosulfan I	35	U	35	6.6	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
Endosulfan II	35	U	35	6.2	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
Endosulfan sulfate	35	U	35	6.4	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
Endrin	35	U	35	6.8	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
Heptachlor	35	U	35	7.5	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20
Lindane	35	U	35	6.3	ug/Kg	☼	10/22/24 17:45	10/23/24 12:23	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*10/22/24 17:45*	*10/23/24 12:23*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*10/22/24 17:45*	*10/23/24 12:23*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*10/22/24 17:45*	*10/23/24 12:23*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*10/22/24 17:45*	*10/23/24 12:23*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.22	U	0.22	0.044	mg/Kg	☼	10/22/24 17:48	10/23/24 19:01	1
PCB-1221	0.22	U	0.22	0.044	mg/Kg	☼	10/22/24 17:48	10/23/24 19:01	1
PCB-1232	0.22	U	0.22	0.044	mg/Kg	☼	10/22/24 17:48	10/23/24 19:01	1
PCB-1242	0.22	U	0.22	0.044	mg/Kg	☼	10/22/24 17:48	10/23/24 19:01	1
PCB-1248	0.22	U	0.22	0.044	mg/Kg	☼	10/22/24 17:48	10/23/24 19:01	1
PCB-1254	0.22	U	0.22	0.10	mg/Kg	☼	10/22/24 17:48	10/23/24 19:01	1
PCB-1260	0.22	U	0.22	0.10	mg/Kg	☼	10/22/24 17:48	10/23/24 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*129*		*60 - 154*	*10/22/24 17:48*	*10/23/24 19:01*	*1*
Tetrachloro-m-xylene	*99*		*60 - 154*	*10/22/24 17:48*	*10/23/24 19:01*	*1*
DCB Decachlorobiphenyl	*114*		*65 - 174*	*10/22/24 17:48*	*10/23/24 19:01*	*1*
DCB Decachlorobiphenyl	*92*		*65 - 174*	*10/22/24 17:48*	*10/23/24 19:01*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.1	ug/Kg	☼	10/20/24 07:03	10/22/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*10/20/24 07:03*	*10/22/24 15:57*	*1*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*	*10/20/24 07:03*	*10/22/24 15:57*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4830**		10.8	9.3	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Antimony	16.2	U	16.2	0.57	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Arsenic	**2.7**		2.2	0.95	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Barium	**31.0**		0.54	0.15	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Beryllium	**0.21**	**J**	0.22	0.043	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Cadmium	**0.72**		0.22	0.076	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Calcium	**160000**		271	146	mg/Kg	☼	10/20/24 12:44	10/22/24 14:41	5

Client Sample ID: 12I-MW-4 (10-12')
Lab Sample ID: 480-224566-2

Date Collected: 10/18/24 09:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**10.1**		0.54	0.39	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Cobalt	**2.4**		0.54	0.11	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Copper	**9.6**		1.1	0.62	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Iron	**6520**		10.8	9.2	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Lead	**76.9**		1.1	0.50	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Magnesium	**75600**		108	45.9	mg/Kg	☼	10/20/24 12:44	10/22/24 14:41	5
Manganese	**470**		1.1	0.30	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Nickel	**7.0**		5.4	0.27	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Potassium	**1970**		32.5	26.2	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Selenium	4.3	U	4.3	0.87	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Silver	0.65	U	0.65	0.22	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Sodium	**340**		152	66.4	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Thallium	6.5	U	6.5	0.82	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Vanadium	**8.1**		0.54	0.14	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1
Zinc	**175**		2.2	1.1	mg/Kg	☼	10/20/24 12:44	10/21/24 17:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**		0.021	0.0048	mg/Kg	☼	10/22/24 10:00	10/22/24 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.0	U	2.0	0.86	mg/Kg	☼	11/11/24 09:15	11/11/24 10:33	1
Cyanide, Total (SW846 9012B)	1.0	U	1.0	0.50	mg/Kg	☼	10/23/24 13:58	10/23/24 19:41	1

Client Sample ID: 12I-MW-2 (2-4')
Lab Sample ID: 480-224566-3

Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.1	U vs	5.1	0.37	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,1,2,2-Tetrachloroethane	5.1	U vs	5.1	0.82	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,1,2-Trichloroethane	5.1	U vs	5.1	0.66	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U vs	5.1	1.2	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,1-Dichloroethane	5.1	U vs	5.1	0.62	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,1-Dichloroethene	5.1	U vs	5.1	0.62	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,2,4-Trichlorobenzene	5.1	U vs	5.1	0.31	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,2-Dibromo-3-Chloropropane	5.1	U vs	5.1	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,2-Dichlorobenzene	5.1	U vs	5.1	0.40	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,2-Dichloroethane	5.1	U vs	5.1	0.25	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,2-Dichloropropane	5.1	U vs	5.1	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,3-Dichlorobenzene	5.1	U vs	5.1	0.26	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,4-Dichlorobenzene	5.1	U vs	5.1	0.71	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
2-Butanone (MEK)	25	U vs	25	1.9	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
2-Hexanone	25	U vs	25	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
4-Methyl-2-pentanone (MIBK)	25	U vs	25	1.7	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Acetone	25	U vs	25	4.3	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Benzene	5.1	U vs	5.1	0.25	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Bromodichloromethane	5.1	U vs	5.1	0.68	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1

Client Sample ID: 12I-MW-2 (2-4')
Date Collected: 10/18/24 15:00
Date Received: 10/18/24 16:20

Lab Sample ID: 480-224566-3
Matrix: Solid
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	5.1	U vs	5.1	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Bromomethane	5.1	U vs	5.1	0.46	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Carbon disulfide	5.1	U vs	5.1	2.5	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Carbon tetrachloride	5.1	U vs	5.1	0.49	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Chlorobenzene	5.1	U vs	5.1	0.67	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Dibromochloromethane	5.1	U vs	5.1	0.65	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Chloroethane	5.1	U vs	5.1	1.1	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Chloroform	**0.53**	**J vs B**	5.1	0.31	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Chloromethane	5.1	U vs	5.1	0.31	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
cis-1,2-Dichloroethene	5.1	U vs	5.1	0.65	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
cis-1,3-Dichloropropene	5.1	U vs	5.1	0.73	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Cyclohexane	5.1	U vs	5.1	0.71	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Dichlorodifluoromethane	5.1	U vs	5.1	0.42	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Ethylbenzene	5.1	U vs	5.1	0.35	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
1,2-Dibromoethane	5.1	U vs	5.1	0.65	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Isopropylbenzene	5.1	U vs	5.1	0.76	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Methyl acetate	25	U vs	25	3.1	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Methyl tert-butyl ether	5.1	U vs	5.1	0.50	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Methylcyclohexane	5.1	U vs	5.1	0.77	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Methylene Chloride	5.1	U vs	5.1	2.3	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Styrene	5.1	U vs	5.1	0.25	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Tetrachloroethene	5.1	U vs	5.1	0.68	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Toluene	5.1	U vs	5.1	0.38	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
trans-1,2-Dichloroethene	5.1	U vs	5.1	0.52	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
trans-1,3-Dichloropropene	5.1	U vs	5.1	2.2	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Trichloroethene	5.1	U vs	5.1	1.1	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Trichlorofluoromethane	5.1	U vs	5.1	0.48	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Vinyl chloride	5.1	U vs	5.1	0.62	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1
Xylenes, Total	10	U vs	10	0.85	ug/Kg	☼	10/20/24 17:07	10/21/24 02:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*10/20/24 17:07*	*10/21/24 02:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*71 - 125*	*10/20/24 17:07*	*10/21/24 02:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*10/20/24 17:07*	*10/21/24 02:30*	*1*
4-Bromofluorobenzene (Surr)	*92*		*72 - 126*	*10/20/24 17:07*	*10/21/24 02:30*	*1*
Dibromofluoromethane (Surr)	*112*		*60 - 140*	*10/20/24 17:07*	*10/21/24 02:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1000	U	1000	570	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2,4,5-Trichlorophenol	1800	U	1800	480	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2,4,6-Trichlorophenol	1800	U	1800	350	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2,4-Dichlorophenol	1800	U	1800	190	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2,4-Dimethylphenol	1800	U	1800	430	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2,4-Dinitrophenol	17000	U	17000	8200	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2,4-Dinitrotoluene	1800	U	1800	360	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2,6-Dinitrotoluene	1800	U	1800	210	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2-Chloronaphthalene	1800	U	1800	290	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10

Client Sample ID: 12I-MW-2 (2-4')
Lab Sample ID: 480-224566-3
Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	3400	U	3400	320	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2-Methylnaphthalene	1800	U	1800	350	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2-Methylphenol	1800	U	1800	210	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2-Nitroaniline	3400	U	3400	260	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
2-Nitrophenol	1800	U	1800	500	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
3,3'-Dichlorobenzidine	3400	U	3400	2100	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
3-Nitroaniline	3400	U	3400	490	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
4,6-Dinitro-2-methylphenol	3400	U	3400	1800	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
4-Bromophenyl phenyl ether	1800	U	1800	250	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
4-Chloro-3-methylphenol	1800	U	1800	440	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
4-Chloroaniline	1800	U	1800	440	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
4-Chlorophenyl phenyl ether	1800	U	1800	220	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
4-Methylphenol	3400	U	3400	210	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
4-Nitroaniline	3400	U	3400	930	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
4-Nitrophenol	3400	U	3400	1200	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Acenaphthene	1800	U	1800	260	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Acenaphthylene	1800	U	1800	230	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Acetophenone	1800	U	1800	240	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Anthracene	1800	U	1800	440	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Atrazine	1800	U	1800	610	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Benzaldehyde	1800	U	1800	1400	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Benzo[a]anthracene	1800	U	1800	180	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Benzo[a]pyrene	1800	U	1800	260	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Benzo[b]fluoranthene	1800	U	1800	280	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Benzo[g,h,i]perylene	1800	U	1800	190	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Benzo[k]fluoranthene	1800	U	1800	230	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Biphenyl	1800	U	1800	260	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
bis (2-chloroisopropyl) ether	1800	U	1800	350	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Bis(2-chloroethoxy)methane	1800	U	1800	370	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Bis(2-chloroethyl)ether	1800	U	1800	230	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Bis(2-ethylhexyl) phthalate	1800	U	1800	600	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Butyl benzyl phthalate	**1800**		1800	290	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Caprolactam	1800	U	1800	530	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Carbazole	1800	U	1800	210	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Chrysene	1800	U	1800	400	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Dibenz(a,h)anthracene	1800	U	1800	310	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Dibenzofuran	1800	U	1800	210	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Diethyl phthalate	1800	U	1800	230	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Dimethyl phthalate	1800	U	1800	210	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Di-n-butyl phthalate	1800	U	1800	300	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Di-n-octyl phthalate	1800	U	1800	210	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Fluoranthene	1800	U	1800	190	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Fluorene	1800	U	1800	210	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Hexachlorobenzene	1800	U	1800	240	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Hexachlorobutadiene	1800	U	1800	260	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Hexachlorocyclopentadiene	1800	U	1800	240	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Hexachloroethane	1800	U	1800	230	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Indeno[1,2,3-cd]pyrene	1800	U	1800	220	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Isophorone	1800	U	1800	370	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10

Client Sample ID: 12I-MW-2 (2-4')
Lab Sample ID: 480-224566-3
Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1800	U	1800	230	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Nitrobenzene	1800	U	1800	200	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
N-Nitrosodi-n-propylamine	1800	U	1800	300	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
N-Nitrosodiphenylamine	1800	U	1800	1400	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Pentachlorophenol	3400	U	3400	1800	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Phenanthrene	1800	U	1800	260	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Phenol	1800	U	1800	270	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10
Pyrene	1800	U	1800	210	ug/Kg	☼	10/22/24 06:55	10/24/24 12:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*25*	*S1-*	*26 - 143*	*10/22/24 06:55*	*10/24/24 12:22*	*10*
2-Fluorobiphenyl (Surr)	*85*		*50 - 121*	*10/22/24 06:55*	*10/24/24 12:22*	*10*
2-Fluorophenol (Surr)	*66*		*36 - 120*	*10/22/24 06:55*	*10/24/24 12:22*	*10*
Nitrobenzene-d5 (Surr)	*88*		*40 - 121*	*10/22/24 06:55*	*10/24/24 12:22*	*10*
Phenol-d5 (Surr)	*83*		*41 - 120*	*10/22/24 06:55*	*10/24/24 12:22*	*10*
p-Terphenyl-d14 (Surr)	*87*		*46 - 143*	*10/22/24 06:55*	*10/24/24 12:22*	*10*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	35	U	35	6.7	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
4,4'-DDE	35	U	35	7.3	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
4,4'-DDT	**11**	**J B**	35	8.1	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
Aldrin	35	U F2	35	8.5	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
alpha-BHC	35	U F1 F2	35	6.2	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
beta-BHC	35	U F1	35	6.2	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
Chlordane (.alpha.)	35	U F1	35	17	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
delta-BHC	35	U F1	35	6.4	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
Dieldrin	35	U F1	35	8.3	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
Endosulfan I	35	U F1	35	6.7	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
Endosulfan II	35	U	35	6.2	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
Endosulfan sulfate	35	U F1	35	6.5	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
Endrin	35	U F1	35	6.9	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
Heptachlor	35	U F1	35	7.5	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20
Lindane	35	U	35	6.4	ug/Kg	☼	10/22/24 17:45	10/23/24 12:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*10/22/24 17:45*	*10/23/24 12:04*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*10/22/24 17:45*	*10/23/24 12:04*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*10/22/24 17:45*	*10/23/24 12:04*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*10/22/24 17:45*	*10/23/24 12:04*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.22	U	0.22	0.044	mg/Kg	☼	10/22/24 17:48	10/23/24 18:42	1
PCB-1221	0.22	U	0.22	0.044	mg/Kg	☼	10/22/24 17:48	10/23/24 18:42	1
PCB-1232	0.22	U	0.22	0.044	mg/Kg	☼	10/22/24 17:48	10/23/24 18:42	1
PCB-1242	0.22	U	0.22	0.044	mg/Kg	☼	10/22/24 17:48	10/23/24 18:42	1
PCB-1248	0.22	U	0.22	0.044	mg/Kg	☼	10/22/24 17:48	10/23/24 18:42	1
PCB-1254	0.22	U	0.22	0.10	mg/Kg	☼	10/22/24 17:48	10/23/24 18:42	1
PCB-1260	0.22	U	0.22	0.10	mg/Kg	☼	10/22/24 17:48	10/23/24 18:42	1

Client Sample ID: 12I-MW-2 (2-4')
Lab Sample ID: 480-224566-3

Date Collected: 10/18/24 15:00
Matrix: Solid

Date Received: 10/18/24 16:20
Percent Solids: 95.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*126*		*60 - 154*	*10/22/24 17:48*	*10/23/24 18:42*	*1*
Tetrachloro-m-xylene	*98*		*60 - 154*	*10/22/24 17:48*	*10/23/24 18:42*	*1*
DCB Decachlorobiphenyl	*116*		*65 - 174*	*10/22/24 17:48*	*10/23/24 18:42*	*1*
DCB Decachlorobiphenyl	*88*		*65 - 174*	*10/22/24 17:48*	*10/23/24 18:42*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.2	ug/Kg	☼	10/20/24 07:03	10/22/24 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*59*		*28 - 129*	*10/20/24 07:03*	*10/22/24 16:34*	*1*
2,4-Dichlorophenylacetic acid	*56*		*28 - 129*	*10/20/24 07:03*	*10/22/24 16:34*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.70	U	0.70	0.18	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.088	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorooctanesulfonic acid (PFOS)	**0.045**	**J**	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.70	U	0.70	0.18	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.70	U	0.70	0.18	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.70	U	0.70	0.18	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**0.082**	**J**	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.44	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1

Client Sample ID: 12I-MW-2 (2-4')
Lab Sample ID: 480-224566-3
Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 95.3

Method: EPA Draft-3 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)	1.8	U	1.8	0.44	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.70	U	0.70	0.18	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.70	U	0.70	0.18	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.088	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.088	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.70	U	0.70	0.18	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.70	U	0.70	0.18	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.088	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.88	U	0.88	0.22	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	4.4	1.1	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.4	U	4.4	1.1	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.044	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.088	ug/Kg	☼	10/25/24 08:10	10/28/24 17:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90.1*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C5 PFPeA	*93.1*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C5 PFHxA	*94.1*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C4 PFHpA	*94.6*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C8 PFOA	*90.8*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C9 PFNA	*88.2*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C6 PFDA	*88.5*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C7 PFUnA	*82.2*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C2 PFTeDA	*68.2*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C3 PFBS	*89.6*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C3 PFHxS	*88.9*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C8 PFOS	*88.1*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C8 PFOSA	*86.9*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
d3-NMeFOSAA	*79.2*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
d5-NEtFOSAA	*78.8*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
M2-4:2 FTS	*106*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
M2-6:2 FTS	*102*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
M2-8:2 FTS	*103*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C3 HFPO-DA	*98.2*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
d7-N-MeFOSE-M	*84.6*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
d9-N-EtFOSE-M	*78.3*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
d5-NEtPFOSA	*67.6*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
D3-NMeFOSA	*69.4*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*
13C2-PFDoDA	*76.7*		*20 - 150*	*10/25/24 08:10*	*10/28/24 17:17*	*1*

Client Sample ID: 12I-MW-2 (2-4')
Lab Sample ID: 480-224566-3

Date Collected: 10/18/24 15:00
Matrix: Solid

Date Received: 10/18/24 16:20
Percent Solids: 95.3

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5260**		10.5	9.1	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Antimony	15.8	U F1	15.8	0.56	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Arsenic	**4.3**	**F1**	2.1	0.93	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Barium	**25.8**	**F1**	0.53	0.15	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Beryllium	**0.23**	**F1**	0.21	0.042	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Cadmium	**2.9**	**F1**	0.21	0.074	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Calcium	**140000**		263	142	mg/Kg	☼	10/20/24 12:44	10/22/24 14:43	5
Chromium	**7.1**	**F1**	0.53	0.38	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Cobalt	**2.7**	**F1**	0.53	0.11	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Copper	**8.3**	**F1**	1.1	0.60	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Iron	**9090**		10.5	8.9	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Lead	**47.9**	**F1**	1.1	0.48	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Magnesium	**64900**		105	44.6	mg/Kg	☼	10/20/24 12:44	10/22/24 14:43	5
Manganese	**444**		1.1	0.29	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Nickel	**7.9**	**F1**	5.3	0.26	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Potassium	**1910**	**F1**	31.6	25.5	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Selenium	4.2	U F1	4.2	0.84	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Silver	**0.21**	**J F1**	0.63	0.21	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Sodium	**241**	**F1**	147	64.5	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Thallium	6.3	U F1	6.3	0.80	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Vanadium	**8.0**	**F1**	0.53	0.14	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1
Zinc	**643**		2.1	1.1	mg/Kg	☼	10/20/24 12:44	10/21/24 17:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.021	0.0047	mg/Kg	☼	10/22/24 10:00	10/22/24 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.0	U	2.0	0.87	mg/Kg	☼	11/11/24 09:30	11/11/24 10:33	1
Cyanide, Total (SW846 9012B)	1.0	U	1.0	0.48	mg/Kg	☼	10/23/24 13:58	10/23/24 19:42	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224566-1
Project/Site: The Nest Site Analysis

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-224566-1	12I-MW-4 (1-3')	97	108	93	112
480-224566-2	12I-MW-4 (10-12')	97	106	93	100
480-224566-3	12I-MW-2 (2-4')	96	108	92	112
LCS 480-729063/1-A	Lab Control Sample	97	101	95	105
MB 480-729063/2-A	Method Blank	98	103	93	108

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (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	PHL	TPHd14
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(41-120)	(46-143)
480-224566-1	12I-MW-4 (1-3')	79	86	85	81	89	91
480-224566-2	12I-MW-4 (10-12')	54	89	92	89	92	97
480-224566-3	12I-MW-2 (2-4')	25 S1-	85	66	88	83	87
LCS 480-729224/2-A	Lab Control Sample	95	87	86	81	90	93
MB 480-729224/1-A	Method Blank	85	80	83	75	82	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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)
480-224566-1	12I-MW-4 (1-3')	56	85	66	69
480-224566-2	12I-MW-4 (10-12')	0 S1-	0 S1-	0 S1-	0 S1-
480-224566-3	12I-MW-2 (2-4')	0 S1-	0 S1-	0 S1-	0 S1-
480-224566-3 MS	12I-MW-2 (2-4')	0 S1-	0 S1-	0 S1-	0 S1-
480-224566-3 MSD	12I-MW-2 (2-4')	0 S1-	0 S1-	0 S1-	0 S1-
LCS 480-729364/2-A	Lab Control Sample	65	88	67	75
MB 480-729364/1-A	Method Blank	59	86	67	71

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224566-1
Project/Site: The Nest Site Analysis

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)
480-224566-1	12I-MW-4 (1-3')	99	126	88	112
480-224566-2	12I-MW-4 (10-12')	99	129	92	114
480-224566-3	12I-MW-2 (2-4')	98	126	88	116
480-224566-3 MS	12I-MW-2 (2-4')	111	145	109	144
480-224566-3 MSD	12I-MW-2 (2-4')	114	146	104	136
LCS 480-729367/2-A	Lab Control Sample	111	143	109	139
MB 480-729367/1-A	Method Blank	98	129	98	114

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)
480-224566-1	12I-MW-4 (1-3')	68	74
480-224566-2	12I-MW-4 (10-12')	69	75
480-224566-3	12I-MW-2 (2-4')	59	56
LCS 480-729003/2-A	Lab Control Sample	74	75
MB 480-729003/1-A	Method Blank	73	77

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224566-1
Project/Site: The Nest Site Analysis

Method: Draft-3 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)
480-224566-1	12I-MW-4 (1-3')	86.9	87.1	87.1	86.7	88.7	86.4	86.8	82.5
480-224566-3	12I-MW-2 (2-4')	90.1	93.1	94.1	94.6	90.8	88.2	88.5	82.2
480-224566-3 DU	12I-MW-2 (2-4')	83.9	85.0	83.3	84.0	83.0	87.1	83.8	78.1
LCS 240-632409/3-A	Lab Control Sample	95.6	97.8	96.3	96.3	91.1	93.8	90.8	85.5
LLCS 240-632409/2-A	Lab Control Sample	88.8	88.6	89.4	89.7	90.2	91.4	86.6	79.9
MB 240-632409/1-A	Method Blank	70.7	73.2	72.6	74.0	71.7	73.7	70.6	70.4

		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)
480-224566-1	12I-MW-4 (1-3')	63.8	86.2	87.5	85.5	85.1	82.3	78.7	98.4
480-224566-3	12I-MW-2 (2-4')	68.2	89.6	88.9	88.1	86.9	79.2	78.8	106
480-224566-3 DU	12I-MW-2 (2-4')	63.5	83.1	83.2	80.8	80.4	74.0	73.6	91.1
LCS 240-632409/3-A	Lab Control Sample	63.7	89.0	92.4	91.3	89.6	88.8	81.6	101
LLCS 240-632409/2-A	Lab Control Sample	66.3	85.7	85.2	84.7	83.0	84.6	80.2	97.0
MB 240-632409/1-A	Method Blank	61.6	67.0	68.0	67.6	65.8	71.2	68.0	79.1

		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)
480-224566-1	12I-MW-4 (1-3')	95.1	94.5	92.1	84.9	78.7	69.0	71.4	79.1
480-224566-3	12I-MW-2 (2-4')	102	103	98.2	84.6	78.3	67.6	69.4	76.7
480-224566-3 DU	12I-MW-2 (2-4')	90.6	90.9	89.5	80.1	74.2	64.5	65.0	74.0
LCS 240-632409/3-A	Lab Control Sample	103	99.0	98.5	83.8	76.7	64.8	68.8	77.0
LLCS 240-632409/2-A	Lab Control Sample	96.6	91.4	90.4	79.5	74.5	63.4	66.2	76.4
MB 240-632409/1-A	Method Blank	77.3	76.5	75.1	67.5	63.6	55.6	55.5	72.3

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

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224566-1
Project/Site: The Nest Site Analysis

PFDoDA = 13C2-PFDoDA

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

Lab Sample ID: MB 480-729063/2-A
Matrix: Solid
Analysis Batch: 729066

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
2-Hexanone	25	U	25	2.5	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Acetone	25	U	25	4.2	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Benzene	5.0	U	5.0	0.25	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Chloroform	0.465	J	5.0	0.31	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Chloromethane	5.0	U	5.0	0.30	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Methyl acetate	25	U	25	3.0	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Styrene	5.0	U	5.0	0.25	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Toluene	5.0	U	5.0	0.38	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		10/20/24 17:07	10/20/24 20:30	1
Xylenes, Total	10	U	10	0.84	ug/Kg		10/20/24 17:07	10/20/24 20:30	1

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

Lab Sample ID: MB 480-729063/2-A
Matrix: Solid
Analysis Batch: 729066

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729063

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	10/20/24 17:07	10/20/24 20:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		71 - 125	10/20/24 17:07	10/20/24 20:30	1
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	10/20/24 17:07	10/20/24 20:30	1
4-Bromofluorobenzene (Surr)	93		72 - 126	10/20/24 17:07	10/20/24 20:30	1
Dibromofluoromethane (Surr)	108		60 - 140	10/20/24 17:07	10/20/24 20:30	1

Lab Sample ID: LCS 480-729063/1-A
Matrix: Solid
Analysis Batch: 729066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.9		ug/Kg		96	77 - 121
1,1,2,2-Tetrachloroethane	50.0	47.6		ug/Kg		95	80 - 120
1,1,2-Trichloroethane	50.0	44.3		ug/Kg		89	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.6		ug/Kg		93	60 - 140
1,1-Dichloroethane	50.0	49.8		ug/Kg		100	73 - 126
1,1-Dichloroethene	50.0	48.4		ug/Kg		97	59 - 125
1,2,4-Trichlorobenzene	50.0	41.7		ug/Kg		83	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	45.0		ug/Kg		90	63 - 124
1,2-Dichlorobenzene	50.0	43.0		ug/Kg		86	75 - 120
1,2-Dichloroethane	50.0	49.9		ug/Kg		100	77 - 122
1,2-Dichloropropane	50.0	50.3		ug/Kg		101	75 - 124
1,3-Dichlorobenzene	50.0	43.2		ug/Kg		86	74 - 120
1,4-Dichlorobenzene	50.0	42.9		ug/Kg		86	73 - 120
2-Butanone (MEK)	250	277		ug/Kg		111	70 - 134
2-Hexanone	250	266		ug/Kg		106	59 - 130
4-Methyl-2-pentanone (MIBK)	250	262		ug/Kg		105	65 - 133
Acetone	250	265		ug/Kg		106	61 - 137
Benzene	50.0	48.1		ug/Kg		96	79 - 127
Bromodichloromethane	50.0	48.1		ug/Kg		96	80 - 122
Bromoform	50.0	43.4		ug/Kg		87	68 - 126
Bromomethane	50.0	47.3		ug/Kg		95	37 - 149
Carbon disulfide	50.0	46.0		ug/Kg		92	64 - 131
Carbon tetrachloride	50.0	46.8		ug/Kg		94	75 - 135
Chlorobenzene	50.0	44.0		ug/Kg		88	76 - 124
Dibromochloromethane	50.0	46.1		ug/Kg		92	76 - 125
Chloroethane	50.0	54.2		ug/Kg		108	69 - 135
Chloroform	50.0	47.0		ug/Kg		94	80 - 120
Chloromethane	50.0	51.7		ug/Kg		103	63 - 127
cis-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	81 - 120
cis-1,3-Dichloropropene	50.0	48.4		ug/Kg		97	80 - 120
Cyclohexane	50.0	51.2		ug/Kg		102	65 - 120
Dichlorodifluoromethane	50.0	44.1		ug/Kg		88	57 - 142
Ethylbenzene	50.0	45.4		ug/Kg		91	80 - 120
1,2-Dibromoethane	50.0	44.3		ug/Kg		89	78 - 120

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

Lab Sample ID: LCS 480-729063/1-A
Matrix: Solid
Analysis Batch: 729066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	50.0	42.5		ug/Kg		85	72 - 120
Methyl acetate	100	106		ug/Kg		106	55 - 136
Methyl tert-butyl ether	50.0	47.4		ug/Kg		95	63 - 125
Methylcyclohexane	50.0	49.0		ug/Kg		98	60 - 140
Methylene Chloride	50.0	46.1		ug/Kg		92	61 - 127
Styrene	50.0	43.6		ug/Kg		87	80 - 120
Tetrachloroethene	50.0	42.8		ug/Kg		86	74 - 122
Toluene	50.0	45.1		ug/Kg		90	74 - 128
trans-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	78 - 126
trans-1,3-Dichloropropene	50.0	44.4		ug/Kg		89	73 - 123
Trichloroethene	50.0	47.6		ug/Kg		95	77 - 129
Trichlorofluoromethane	50.0	50.5		ug/Kg		101	65 - 146
Vinyl chloride	50.0	51.6		ug/Kg		103	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*
Dibromofluoromethane (Surr)	*105*		*60 - 140*

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

Lab Sample ID: MB 480-729224/1-A
Matrix: Solid
Analysis Batch: 729434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729224

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	55	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2,4,5-Trichlorophenol	170	U	170	46	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2,4,6-Trichlorophenol	170	U	170	34	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2,4-Dichlorophenol	170	U	170	18	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2,4-Dimethylphenol	170	U	170	41	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2,4-Dinitrophenol	1700	U	1700	780	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2,4-Dinitrotoluene	170	U	170	35	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2,6-Dinitrotoluene	170	U	170	20	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2-Chloronaphthalene	170	U	170	28	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2-Chlorophenol	330	U	330	31	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2-Methylnaphthalene	170	U	170	34	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2-Methylphenol	170	U	170	20	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2-Nitroaniline	330	U	330	25	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
2-Nitrophenol	170	U	170	48	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
3,3'-Dichlorobenzidine	330	U	330	200	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
3-Nitroaniline	330	U	330	47	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
4,6-Dinitro-2-methylphenol	330	U	330	170	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
4-Bromophenyl phenyl ether	170	U	170	24	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
4-Chloro-3-methylphenol	170	U	170	42	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
4-Chloroaniline	170	U	170	42	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
4-Chlorophenyl phenyl ether	170	U	170	21	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
4-Methylphenol	330	U	330	20	ug/Kg		10/22/24 06:55	10/23/24 21:25	1

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

Lab Sample ID: MB 480-729224/1-A
Matrix: Solid
Analysis Batch: 729434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729224

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	330	U	330	89	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
4-Nitrophenol	330	U	330	120	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Acenaphthene	170	U	170	25	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Acenaphthylene	170	U	170	22	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Acetophenone	170	U	170	23	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Anthracene	170	U	170	42	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Atrazine	170	U	170	59	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Benzaldehyde	170	U	170	140	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Biphenyl	170	U	170	25	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
bis (2-chloroisopropyl) ether	170	U	170	34	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Bis(2-chloroethoxy)methane	170	U	170	36	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Bis(2-chloroethyl)ether	170	U	170	22	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Bis(2-ethylhexyl) phthalate	170	U	170	58	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Butyl benzyl phthalate	170	U	170	28	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Caprolactam	170	U	170	51	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Carbazole	170	U	170	20	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Chrysene	170	U	170	38	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Dibenzofuran	170	U	170	20	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Diethyl phthalate	170	U	170	22	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Dimethyl phthalate	170	U	170	20	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Di-n-butyl phthalate	170	U	170	29	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Di-n-octyl phthalate	170	U	170	20	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Fluoranthene	170	U	170	18	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Fluorene	170	U	170	20	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Hexachlorobenzene	170	U	170	23	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Hexachlorobutadiene	170	U	170	25	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Hexachlorocyclopentadiene	170	U	170	23	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Hexachloroethane	170	U	170	22	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Isophorone	170	U	170	36	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Naphthalene	170	U	170	22	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Nitrobenzene	170	U	170	19	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
N-Nitrosodi-n-propylamine	170	U	170	29	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
N-Nitrosodiphenylamine	170	U	170	140	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Pentachlorophenol	330	U	330	170	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Phenanthrene	170	U	170	25	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Phenol	170	U	170	26	ug/Kg		10/22/24 06:55	10/23/24 21:25	1
Pyrene	170	U	170	20	ug/Kg		10/22/24 06:55	10/23/24 21:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*26 - 143*	*10/22/24 06:55*	*10/23/24 21:25*	*1*
2-Fluorobiphenyl (Surr)	*80*		*50 - 121*	*10/22/24 06:55*	*10/23/24 21:25*	*1*

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

Lab Sample ID: MB 480-729224/1-A
Matrix: Solid
Analysis Batch: 729434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729224

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	*83*		*36 - 120*	*10/22/24 06:55*	*10/23/24 21:25*	*1*
Nitrobenzene-d5 (Surr)	*75*		*40 - 121*	*10/22/24 06:55*	*10/23/24 21:25*	*1*
Phenol-d5 (Surr)	*82*		*41 - 120*	*10/22/24 06:55*	*10/23/24 21:25*	*1*
p-Terphenyl-d14 (Surr)	*88*		*46 - 143*	*10/22/24 06:55*	*10/23/24 21:25*	*1*

Lab Sample ID: LCS 480-729224/2-A
Matrix: Solid
Analysis Batch: 729434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729224

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1330	630		ug/Kg		47	23 - 120
2,4,5-Trichlorophenol	1330	1250		ug/Kg		94	59 - 126
2,4,6-Trichlorophenol	1330	1220		ug/Kg		92	59 - 123
2,4-Dichlorophenol	1330	1200		ug/Kg		90	61 - 120
2,4-Dimethylphenol	1330	1220		ug/Kg		91	59 - 120
2,4-Dinitrophenol	2670	2790		ug/Kg		105	41 - 146
2,4-Dinitrotoluene	1330	1310		ug/Kg		98	63 - 120
2,6-Dinitrotoluene	1330	1270		ug/Kg		95	66 - 120
2-Chloronaphthalene	1330	1170		ug/Kg		88	57 - 120
2-Chlorophenol	1330	1190		ug/Kg		89	53 - 120
2-Methylnaphthalene	1330	1140		ug/Kg		85	59 - 120
2-Methylphenol	1330	1150		ug/Kg		86	54 - 120
2-Nitroaniline	1330	1390		ug/Kg		104	61 - 120
2-Nitrophenol	1330	1110		ug/Kg		83	56 - 120
3,3'-Dichlorobenzidine	1330	1130		ug/Kg		84	54 - 120
3-Nitroaniline	1330	1100		ug/Kg		83	48 - 120
4,6-Dinitro-2-methylphenol	2670	2670		ug/Kg		100	49 - 122
4-Bromophenyl phenyl ether	1330	1290		ug/Kg		96	58 - 120
4-Chloro-3-methylphenol	1330	1280		ug/Kg		96	61 - 120
4-Chloroaniline	1330	1050		ug/Kg		79	38 - 120
4-Chlorophenyl phenyl ether	1330	1230		ug/Kg		92	63 - 124
4-Methylphenol	1330	1210		ug/Kg		91	55 - 120
4-Nitroaniline	1330	1290		ug/Kg		97	56 - 120
4-Nitrophenol	2670	2670		ug/Kg		100	43 - 147
Acenaphthene	1330	1200		ug/Kg		90	62 - 120
Acenaphthylene	1330	1270		ug/Kg		96	58 - 121
Acetophenone	1330	1180		ug/Kg		88	54 - 120
Anthracene	1330	1280		ug/Kg		96	62 - 120
Atrazine	2670	2670	E	ug/Kg		100	60 - 127
Benzaldehyde	2670	2260		ug/Kg		85	10 - 150
Benzo[a]anthracene	1330	1290		ug/Kg		97	65 - 120
Benzo[a]pyrene	1330	1340		ug/Kg		101	64 - 120
Benzo[b]fluoranthene	1330	1260		ug/Kg		94	64 - 120
Benzo[g,h,i]perylene	1330	1340		ug/Kg		101	45 - 145
Benzo[k]fluoranthene	1330	1350		ug/Kg		101	65 - 120
Biphenyl	1330	1190		ug/Kg		89	59 - 120
bis (2-chloroisopropyl) ether	1330	1150		ug/Kg		86	44 - 120
Bis(2-chloroethoxy)methane	1330	1180		ug/Kg		89	55 - 120

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

Lab Sample ID: LCS 480-729224/2-A
Matrix: Solid
Analysis Batch: 729434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729224

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	1330	1120		ug/Kg		84	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1350		ug/Kg		101	61 - 133
Butyl benzyl phthalate	1330	1340		ug/Kg		100	61 - 129
Caprolactam	2670	2540		ug/Kg		95	47 - 120
Carbazole	1330	1310		ug/Kg		98	65 - 120
Chrysene	1330	1230		ug/Kg		93	64 - 120
Dibenz(a,h)anthracene	1330	1350		ug/Kg		101	54 - 132
Dibenzofuran	1330	1220		ug/Kg		91	63 - 120
Diethyl phthalate	1330	1320		ug/Kg		99	66 - 120
Dimethyl phthalate	1330	1300		ug/Kg		98	65 - 124
Di-n-butyl phthalate	1330	1370		ug/Kg		103	58 - 130
Di-n-octyl phthalate	1330	1450		ug/Kg		109	57 - 133
Fluoranthene	1330	1320		ug/Kg		99	62 - 120
Fluorene	1330	1220		ug/Kg		92	63 - 120
Hexachlorobenzene	1330	1240		ug/Kg		93	60 - 120
Hexachlorobutadiene	1330	1020		ug/Kg		76	45 - 120
Hexachlorocyclopentadiene	1330	1150		ug/Kg		87	47 - 120
Hexachloroethane	1330	1010		ug/Kg		76	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1340		ug/Kg		100	56 - 134
Isophorone	1330	1190		ug/Kg		90	56 - 120
Naphthalene	1330	1070		ug/Kg		80	55 - 120
Nitrobenzene	1330	1150		ug/Kg		87	54 - 120
N-Nitrosodi-n-propylamine	1330	1200		ug/Kg		90	52 - 120
N-Nitrosodiphenylamine	1330	1260		ug/Kg		95	51 - 128
Pentachlorophenol	2670	2640		ug/Kg		99	10 - 120
Phenanthrene	1330	1270		ug/Kg		95	60 - 120
Phenol	1330	1140		ug/Kg		86	53 - 120
Pyrene	1330	1270		ug/Kg		95	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*26 - 143*
2-Fluorobiphenyl (Surr)	*87*		*50 - 121*
2-Fluorophenol (Surr)	*86*		*36 - 120*
Nitrobenzene-d5 (Surr)	*81*		*40 - 121*
Phenol-d5 (Surr)	*90*		*41 - 120*
p-Terphenyl-d14 (Surr)	*93*		*46 - 143*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-729364/1-A
Matrix: Solid
Analysis Batch: 729407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.7	U	1.7	0.32	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
4,4'-DDE	1.7	U	1.7	0.35	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
4,4'-DDT	0.521	J	1.7	0.39	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
Aldrin	1.7	U	1.7	0.41	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
alpha-BHC	1.7	U	1.7	0.30	ug/Kg		10/22/24 17:45	10/23/24 10:45	1

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

Lab Sample ID: MB 480-729364/1-A
Matrix: Solid
Analysis Batch: 729407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	1.7	U	1.7	0.30	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
Chlordane (.alpha.)	1.7	U	1.7	0.83	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
delta-BHC	1.7	U	1.7	0.31	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
Dieldrin	1.7	U	1.7	0.40	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
Endosulfan I	1.7	U	1.7	0.32	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
Endosulfan II	1.7	U	1.7	0.30	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
Endosulfan sulfate	1.7	U	1.7	0.31	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
Endrin	1.7	U	1.7	0.33	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
Heptachlor	1.7	U	1.7	0.36	ug/Kg		10/22/24 17:45	10/23/24 10:45	1
Lindane	1.7	U	1.7	0.31	ug/Kg		10/22/24 17:45	10/23/24 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*45 - 120*	*10/22/24 17:45*	*10/23/24 10:45*	*1*
DCB Decachlorobiphenyl	*86*		*45 - 120*	*10/22/24 17:45*	*10/23/24 10:45*	*1*
Tetrachloro-m-xylene	*67*		*30 - 124*	*10/22/24 17:45*	*10/23/24 10:45*	*1*
Tetrachloro-m-xylene	*71*		*30 - 124*	*10/22/24 17:45*	*10/23/24 10:45*	*1*

Lab Sample ID: LCS 480-729364/2-A
Matrix: Solid
Analysis Batch: 729407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	13.1		ug/Kg		79	56 - 120
4,4'-DDE	16.7	10.6		ug/Kg		63	44 - 120
4,4'-DDT	16.7	12.9		ug/Kg		78	38 - 120
Aldrin	16.7	10.8		ug/Kg		65	38 - 120
alpha-BHC	16.7	10.4		ug/Kg		63	39 - 120
beta-BHC	16.7	11.7		ug/Kg		70	40 - 120
Chlordane (.alpha.)	16.7	10.8		ug/Kg		65	47 - 120
delta-BHC	16.7	10.8		ug/Kg		65	45 - 120
Dieldrin	16.7	14.2		ug/Kg		85	58 - 120
Endosulfan I	16.7	12.8		ug/Kg		77	49 - 120
Endosulfan II	16.7	14.7		ug/Kg		88	55 - 120
Endosulfan sulfate	16.7	13.7		ug/Kg		82	49 - 124
Endrin	16.7	14.4		ug/Kg		86	58 - 120
Heptachlor	16.7	13.1		ug/Kg		78	50 - 120
Lindane	16.7	10.8		ug/Kg		65	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*		*45 - 120*
DCB Decachlorobiphenyl	*88*		*45 - 120*
Tetrachloro-m-xylene	*67*		*30 - 124*
Tetrachloro-m-xylene	*75*		*30 - 124*

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

Lab Sample ID: 480-224566-3 MS
Matrix: Solid
Analysis Batch: 729407

Client Sample ID: 12I-MW-2 (2-4')
Prep Type: Total/NA
Prep Batch: 729364

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	35	U	17.1	13.0	J	ug/Kg	☼	76	37 - 126
4,4'-DDE	35	U	17.1	15.1	J	ug/Kg	☼	88	34 - 120
4,4'-DDT	11	J B	17.1	23.5	J	ug/Kg	☼	75	43 - 123
Aldrin	35	U F2	17.1	11.1	J	ug/Kg	☼	65	37 - 125
alpha-BHC	35	U F1 F2	17.1	23.1	J F1	ug/Kg	☼	136	39 - 120
beta-BHC	35	U F1	17.1	21.2	J F1	ug/Kg	☼	124	36 - 120
Chlordane (.alpha.)	35	U F1	17.1	34	U F1	ug/Kg	☼	0	35 - 120
delta-BHC	35	U F1	17.1	22.8	J F1	ug/Kg	☼	134	34 - 120
Dieldrin	35	U F1	17.1	34	U F1	ug/Kg	☼	0	45 - 120
Endosulfan I	35	U F1	17.1	34	U F1	ug/Kg	☼	0	39 - 120
Endosulfan II	35	U	17.1	8.60	J	ug/Kg	☼	50	34 - 126
Endosulfan sulfate	35	U F1	17.1	34	U F1	ug/Kg	☼	0	27 - 130
Endrin	35	U F1	17.1	34	U F1	ug/Kg	☼	0	47 - 121
Heptachlor	35	U F1	17.1	34	U F1	ug/Kg	☼	0	42 - 120
Lindane	35	U	17.1	18.1	J	ug/Kg	☼	106	50 - 120

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: 480-224566-3 MSD
Matrix: Solid
Analysis Batch: 729407

Client Sample ID: 12I-MW-2 (2-4')
Prep Type: Total/NA
Prep Batch: 729364

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	35	U	17.2	11.7	J	ug/Kg	☼	68	37 - 126	11	21
4,4'-DDE	35	U	17.2	13.4	J	ug/Kg	☼	78	34 - 120	12	18
4,4'-DDT	11	J B	17.2	24.3	J	ug/Kg	☼	79	43 - 123	3	25
Aldrin	35	U F2	17.2	17.4	J F2	ug/Kg	☼	101	37 - 125	44	12
alpha-BHC	35	U F1 F2	17.2	16.0	J F2	ug/Kg	☼	93	39 - 120	36	15
beta-BHC	35	U F1	17.2	19.3	J	ug/Kg	☼	112	36 - 120	9	19
Chlordane (.alpha.)	35	U F1	17.2	34	U F1	ug/Kg	☼	0	35 - 120	NC	23
delta-BHC	35	U F1	17.2	22.3	J F1	ug/Kg	☼	130	34 - 120	2	14
Dieldrin	35	U F1	17.2	34	U F1	ug/Kg	☼	0	45 - 120	NC	12
Endosulfan I	35	U F1	17.2	34	U F1	ug/Kg	☼	0	39 - 120	NC	18
Endosulfan II	35	U	17.2	7.59	J	ug/Kg	☼	44	34 - 126	12	26
Endosulfan sulfate	35	U F1	17.2	34	U F1	ug/Kg	☼	0	27 - 130	NC	35
Endrin	35	U F1	17.2	34	U F1	ug/Kg	☼	0	47 - 121	NC	20
Heptachlor	35	U F1	17.2	34	U F1	ug/Kg	☼	0	42 - 120	NC	22
Lindane	35	U	17.2	17.7	J	ug/Kg	☼	103	50 - 120	2	12

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 480-729367/1-A
Matrix: Solid
Analysis Batch: 729420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729367

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.25	U	0.25	0.049	mg/Kg		10/22/24 17:48	10/23/24 16:05	1
PCB-1221	0.25	U	0.25	0.049	mg/Kg		10/22/24 17:48	10/23/24 16:05	1
PCB-1232	0.25	U	0.25	0.049	mg/Kg		10/22/24 17:48	10/23/24 16:05	1
PCB-1242	0.25	U	0.25	0.049	mg/Kg		10/22/24 17:48	10/23/24 16:05	1
PCB-1248	0.25	U	0.25	0.049	mg/Kg		10/22/24 17:48	10/23/24 16:05	1
PCB-1254	0.25	U	0.25	0.12	mg/Kg		10/22/24 17:48	10/23/24 16:05	1
PCB-1260	0.25	U	0.25	0.12	mg/Kg		10/22/24 17:48	10/23/24 16:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*129*		*60 - 154*	*10/22/24 17:48*	*10/23/24 16:05*	*1*
Tetrachloro-m-xylene	*98*		*60 - 154*	*10/22/24 17:48*	*10/23/24 16:05*	*1*
DCB Decachlorobiphenyl	*114*		*65 - 174*	*10/22/24 17:48*	*10/23/24 16:05*	*1*
DCB Decachlorobiphenyl	*98*		*65 - 174*	*10/22/24 17:48*	*10/23/24 16:05*	*1*

Lab Sample ID: LCS 480-729367/2-A
Matrix: Solid
Analysis Batch: 729420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729367

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			2.50	2.44		mg/Kg		98	51 - 185		
PCB-1260			2.50	2.82		mg/Kg		113	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*143*		*60 - 154*
Tetrachloro-m-xylene	*111*		*60 - 154*
DCB Decachlorobiphenyl	*139*		*65 - 174*
DCB Decachlorobiphenyl	*109*		*65 - 174*

Lab Sample ID: 480-224566-3 MS
Matrix: Solid
Analysis Batch: 729420

Client Sample ID: 12I-MW-2 (2-4')
Prep Type: Total/NA
Prep Batch: 729367

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	0.22	U	2.24	2.29		mg/Kg	☼	102	50 - 177		
PCB-1260	0.22	U	2.24	2.45		mg/Kg	☼	109	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*145*		*60 - 154*
Tetrachloro-m-xylene	*111*		*60 - 154*
DCB Decachlorobiphenyl	*144*		*65 - 174*
DCB Decachlorobiphenyl	*109*		*65 - 174*

Lab Sample ID: 480-224566-3 MSD
Matrix: Solid
Analysis Batch: 729420

Client Sample ID: 12I-MW-2 (2-4')
Prep Type: Total/NA
Prep Batch: 729367

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.22	U	2.43	2.59		mg/Kg	☼	107	50 - 177	12	50

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

Lab Sample ID: 480-224566-3 MSD
Matrix: Solid
Analysis Batch: 729420

Client Sample ID: 12I-MW-2 (2-4')
Prep Type: Total/NA
Prep Batch: 729367

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1260	0.22	U	2.43	2.75		mg/Kg	☼	113	33 - 200	11	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*146*		*60 - 154*
Tetrachloro-m-xylene	*114*		*60 - 154*
DCB Decachlorobiphenyl	*136*		*65 - 174*
DCB Decachlorobiphenyl	*104*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-729003/1-A
Matrix: Solid
Analysis Batch: 729296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.0	ug/Kg		10/20/24 07:03	10/22/24 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*10/20/24 07:03*	*10/22/24 13:14*	*1*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*	*10/20/24 07:03*	*10/22/24 13:14*	*1*

Lab Sample ID: LCS 480-729003/2-A
Matrix: Solid
Analysis Batch: 729296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)			66.7	48.3		ug/Kg		73	39 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-632409/1-A
Matrix: Solid
Analysis Batch: 632696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.80	U	0.80	0.20	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.10	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-632409/1-A
Matrix: Solid
Analysis Batch: 632696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	0.80	0.20	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	0.80	0.20	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	0.80	0.20	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.0	U	2.0	0.50	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0	U	2.0	0.50	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	0.80	0.20	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	0.80	0.20	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.10	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.10	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.80	U	0.80	0.20	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.80	U	0.80	0.20	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.10	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	1.0	0.25	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.050	ug/Kg		10/25/24 08:10	10/28/24 13:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.10	ug/Kg		10/25/24 08:10	10/28/24 13:08	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	70.7		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C5 PFPeA	73.2		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C5 PFHxA	72.6		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C4 PFHpA	74.0		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C8 PFOA	71.7		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C9 PFNA	73.7		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C6 PFDA	70.6		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C7 PFUnA	70.4		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C2 PFTeDA	61.6		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C3 PFBS	67.0		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C3 PFHxS	68.0		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C8 PFOS	67.6		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C8 PFOSA	65.8		20 - 150	10/25/24 08:10	10/28/24 13:08	1
d3-NMeFOSAA	71.2		20 - 150	10/25/24 08:10	10/28/24 13:08	1
d5-NEtFOSAA	68.0		20 - 150	10/25/24 08:10	10/28/24 13:08	1
M2-4:2 FTS	79.1		20 - 150	10/25/24 08:10	10/28/24 13:08	1
M2-6:2 FTS	77.3		20 - 150	10/25/24 08:10	10/28/24 13:08	1
M2-8:2 FTS	76.5		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C3 HFPO-DA	75.1		20 - 150	10/25/24 08:10	10/28/24 13:08	1
d7-N-MeFOSE-M	67.5		20 - 150	10/25/24 08:10	10/28/24 13:08	1
d9-N-EtFOSE-M	63.6		20 - 150	10/25/24 08:10	10/28/24 13:08	1
d5-NEtPFOSA	55.6		20 - 150	10/25/24 08:10	10/28/24 13:08	1
D3-NMeFOSA	55.5		20 - 150	10/25/24 08:10	10/28/24 13:08	1
13C2-PFDoDA	72.3		20 - 150	10/25/24 08:10	10/28/24 13:08	1

Lab Sample ID: LCS 240-632409/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 632696 — **Prep Batch: 632409**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	10.0	10.8		ug/Kg		108	40 - 150
Perfluoropentanoic acid (PFPeA)	5.00	5.44		ug/Kg		109	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.70		ug/Kg		108	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.68		ug/Kg		107	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.70		ug/Kg		108	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.72		ug/Kg		109	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	2.61		ug/Kg		104	40 - 150
Perfluoroundecanoic acid (PFUnA)	2.50	2.63		ug/Kg		105	40 - 150
Perfluorododecanoic acid (PFDoA)	2.50	2.71		ug/Kg		108	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.64		ug/Kg		106	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.91		ug/Kg		116	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.21	2.38		ug/Kg		108	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.47		ug/Kg		105	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.37		ug/Kg		104	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.38	2.57		ug/Kg		108	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-632409/3-A
Matrix: Solid
Analysis Batch: 632696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.32	2.44		ug/Kg		105	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	2.36		ug/Kg		98	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	1.79		ug/Kg		74	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	9.69		ug/Kg		104	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	9.93		ug/Kg		105	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	9.77		ug/Kg		102	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.68		ug/Kg		107	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.68		ug/Kg		107	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.72		ug/Kg		109	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.70		ug/Kg		108	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.74		ug/Kg		110	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	27.7		ug/Kg		111	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	27.1		ug/Kg		109	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	10.7		ug/Kg		107	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	9.81		ug/Kg		104	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.00	5.19		ug/Kg		104	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.00	5.43		ug/Kg		109	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.32	8.62		ug/Kg		93	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	9.42	7.68		ug/Kg		82	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.45	4.54		ug/Kg		102	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	12.5	12.9		ug/Kg		103	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	62.5	66.7		ug/Kg		107	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	62.5	61.8		ug/Kg		99	40 - 150
Perfluorodecanesulfonic acid (PFDS)	2.41	2.22		ug/Kg		92	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.00	5.42		ug/Kg		108	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*95.6*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-632409/3-A
Matrix: Solid
Analysis Batch: 632696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632409

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C5 PFPeA	*97.8*		*20 - 150*
13C5 PFHxA	*96.3*		*20 - 150*
13C4 PFHpA	*96.3*		*20 - 150*
13C8 PFOA	*91.1*		*20 - 150*
13C9 PFNA	*93.8*		*20 - 150*
13C6 PFDA	*90.8*		*20 - 150*
13C7 PFUnA	*85.5*		*20 - 150*
13C2 PFTeDA	*63.7*		*20 - 150*
13C3 PFBS	*89.0*		*20 - 150*
13C3 PFHxS	*92.4*		*20 - 150*
13C8 PFOS	*91.3*		*20 - 150*
13C8 PFOSA	*89.6*		*20 - 150*
d3-NMeFOSAA	*88.8*		*20 - 150*
d5-NEtFOSAA	*81.6*		*20 - 150*
M2-4:2 FTS	*101*		*20 - 150*
M2-6:2 FTS	*103*		*20 - 150*
M2-8:2 FTS	*99.0*		*20 - 150*
13C3 HFPO-DA	*98.5*		*20 - 150*
d7-N-MeFOSE-M	*83.8*		*20 - 150*
d9-N-EtFOSE-M	*76.7*		*20 - 150*
d5-NEtPFOSA	*64.8*		*20 - 150*
D3-NMeFOSA	*68.8*		*20 - 150*
13C2-PFDoDA	*77.0*		*20 - 150*

Lab Sample ID: LLCS 240-632409/2-A
Matrix: Solid
Analysis Batch: 632696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632409

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	0.918		ug/Kg		115	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.424		ug/Kg		106	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.221		ug/Kg		110	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.210		ug/Kg		105	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.230		ug/Kg		115	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.205		ug/Kg		102	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.215		ug/Kg		107	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.200	0.219		ug/Kg		110	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.218		ug/Kg		109	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.214		ug/Kg		107	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.219		ug/Kg		109	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.186	J	ug/Kg		105	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.208		ug/Kg		111	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.209		ug/Kg		115	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-632409/2-A
Matrix: Solid
Analysis Batch: 632696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632409

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.209		ug/Kg		110	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.186	0.202		ug/Kg		109	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.192	0.193	J	ug/Kg		101	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.159	J	ug/Kg		82	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.791	J	ug/Kg		106	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.833		ug/Kg		110	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.823		ug/Kg		107	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.213		ug/Kg		106	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.209		ug/Kg		104	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.218		ug/Kg		109	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.212		ug/Kg		106	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.217		ug/Kg		108	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.35		ug/Kg		118	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	2.19		ug/Kg		109	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	0.867		ug/Kg		108	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.774	J	ug/Kg		103	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.400	0.402		ug/Kg		101	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.400	0.449		ug/Kg		112	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.746	0.726	J	ug/Kg		97	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.754	0.666	J	ug/Kg		88	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.356	0.363	J	ug/Kg		102	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.00	0.972	J	ug/Kg		97	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.00	5.16		ug/Kg		103	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.00	4.87	J	ug/Kg		97	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.193	0.190	J	ug/Kg		98	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.400	0.437		ug/Kg		109	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFBA	88.8		20 - 150
13C5 PFPeA	88.6		20 - 150
13C5 PFHxA	89.4		20 - 150
13C4 PFHpA	89.7		20 - 150
13C8 PFOA	90.2		20 - 150
13C9 PFNA	91.4		20 - 150
13C6 PFDA	86.6		20 - 150
13C7 PFUnA	79.9		20 - 150
13C2 PFTeDA	66.3		20 - 150
13C3 PFBS	85.7		20 - 150
13C3 PFHxS	85.2		20 - 150
13C8 PFOS	84.7		20 - 150
13C8 PFOSA	83.0		20 - 150
d3-NMeFOSAA	84.6		20 - 150
d5-NEtFOSAA	80.2		20 - 150
M2-4:2 FTS	97.0		20 - 150
M2-6:2 FTS	96.6		20 - 150
M2-8:2 FTS	91.4		20 - 150
13C3 HFPO-DA	90.4		20 - 150
d7-N-MeFOSE-M	79.5		20 - 150
d9-N-EtFOSE-M	74.5		20 - 150
d5-NEtPFOSA	63.4		20 - 150
D3-NMeFOSA	66.2		20 - 150
13C2-PFDoDA	76.4		20 - 150

Lab Sample ID: 480-224566-3 DU
Matrix: Solid
Analysis Batch: 632696

Client Sample ID: 12I-MW-2 (2-4')
Prep Type: Total/NA
Prep Batch: 632409

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.70	U		0.68	U	ug/Kg	☼			NC	30
Perfluoropentanoic acid (PFPeA)	0.35	U		0.34	U	ug/Kg	☼			NC	30
Perfluorohexanoic acid (PFHxA)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluoroheptanoic acid (PFHpA)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluorooctanoic acid (PFOA)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluorononanoic acid (PFNA)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluorodecanoic acid (PFDA)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluoroundecanoic acid (PFUnA)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluorododecanoic acid (PFDoA)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluorotridecanoic acid (PFTrDA)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluorotetradecanoic acid (PFTeDA)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluorobutanesulfonic acid (PFBS)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluoropentanesulfonic acid (PFPeS)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluorohexanesulfonic acid (PFHxS)	0.18	U		0.17	U	ug/Kg	☼			NC	30
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U		0.17	U	ug/Kg	☼			NC	30

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224566-3 DU
Matrix: Solid
Analysis Batch: 632696

Client Sample ID: 12I-MW-2 (2-4')
Prep Type: Total/NA
Prep Batch: 632409

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	0.045	J	0.17	U	ug/Kg	☼	NC	30
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.17	U	ug/Kg	☼	NC	30
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.17	U	ug/Kg	☼	NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.70	U	0.68	U	ug/Kg	☼	NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.70	U	0.68	U	ug/Kg	☼	NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.70	U	0.68	U	ug/Kg	☼	NC	30
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.17	U	ug/Kg	☼	NC	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.17	U	ug/Kg	☼	NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.17	U	ug/Kg	☼	NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.17	U	ug/Kg	☼	NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.082	J	0.115	J F5	ug/Kg	☼	33	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.7	U	ug/Kg	☼	NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.7	U	ug/Kg	☼	NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.70	U	0.68	U	ug/Kg	☼	NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.70	U	0.68	U	ug/Kg	☼	NC	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.34	U	ug/Kg	☼	NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.34	U	ug/Kg	☼	NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.70	U	0.68	U	ug/Kg	☼	NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.70	U	0.68	U	ug/Kg	☼	NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.34	U	ug/Kg	☼	NC	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.88	U	0.85	U	ug/Kg	☼	NC	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	4.3	U	ug/Kg	☼	NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.4	U	4.3	U	ug/Kg	☼	NC	30
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.17	U	ug/Kg	☼	NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.34	U	ug/Kg	☼	NC	30

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
13C4 PFBA	*83.9*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224566-3 DU
Matrix: Solid
Analysis Batch: 632696

Client Sample ID: 12I-MW-2 (2-4')
Prep Type: Total/NA
Prep Batch: 632409

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
13C5 PFPeA	*85.0*		*20 - 150*
13C5 PFHxA	*83.3*		*20 - 150*
13C4 PFHpA	*84.0*		*20 - 150*
13C8 PFOA	*83.0*		*20 - 150*
13C9 PFNA	*87.1*		*20 - 150*
13C6 PFDA	*83.8*		*20 - 150*
13C7 PFUnA	*78.1*		*20 - 150*
13C2 PFTeDA	*63.5*		*20 - 150*
13C3 PFBS	*83.1*		*20 - 150*
13C3 PFHxS	*83.2*		*20 - 150*
13C8 PFOS	*80.8*		*20 - 150*
13C8 PFOSA	*80.4*		*20 - 150*
d3-NMeFOSAA	*74.0*		*20 - 150*
d5-NEtFOSAA	*73.6*		*20 - 150*
M2-4:2 FTS	*91.1*		*20 - 150*
M2-6:2 FTS	*90.6*		*20 - 150*
M2-8:2 FTS	*90.9*		*20 - 150*
13C3 HFPO-DA	*89.5*		*20 - 150*
d7-N-MeFOSE-M	*80.1*		*20 - 150*
d9-N-EtFOSE-M	*74.2*		*20 - 150*
d5-NEtPFOSA	*64.5*		*20 - 150*
D3-NMeFOSA	*65.0*		*20 - 150*
13C2-PFDoDA	*74.0*		*20 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-729028/1-A
Matrix: Solid
Analysis Batch: 729230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.7	U	9.7	8.3	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Antimony	14.5	U	14.5	0.51	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Arsenic	1.9	U	1.9	0.85	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Barium	0.48	U	0.48	0.14	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Beryllium	0.19	U	0.19	0.039	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Cadmium	0.19	U	0.19	0.068	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Calcium	48.3	U	48.3	26.1	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Chromium	0.48	U	0.48	0.35	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Cobalt	0.48	U	0.48	0.097	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Copper	0.97	U	0.97	0.55	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Iron	9.7	U	9.7	8.2	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Lead	0.97	U	0.97	0.44	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Magnesium	19.3	U	19.3	8.2	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Manganese	0.97	U	0.97	0.27	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Nickel	4.8	U	4.8	0.24	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Potassium	29.0	U	29.0	23.4	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Selenium	3.9	U	3.9	0.77	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Silver	0.58	U	0.58	0.19	mg/Kg		10/20/24 12:44	10/21/24 17:44	1

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

Lab Sample ID: MB 480-729028/1-A
Matrix: Solid
Analysis Batch: 729230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	135	U	135	59.3	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Thallium	5.8	U	5.8	0.73	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Vanadium	0.48	U	0.48	0.13	mg/Kg		10/20/24 12:44	10/21/24 17:44	1
Zinc	1.9	U	1.9	0.99	mg/Kg		10/20/24 12:44	10/21/24 17:44	1

Lab Sample ID: LCSSRM 480-729028/2-A
Matrix: Solid
Analysis Batch: 729230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729028

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6780	6900		mg/Kg		101.8	47.8 - 151.9
Antimony	127	92.56		mg/Kg		72.9	20.2 - 250.4
Arsenic	311	249.1		mg/Kg		80.1	70.1 - 130.2
Barium	304	248.9		mg/Kg		81.9	75.0 - 125.0
Beryllium	169	139.8		mg/Kg		82.7	75.1 - 124.9
Cadmium	212	168.9		mg/Kg		79.7	75.0 - 125.0
Calcium	5170	4345		mg/Kg		84.0	72.9 - 126.9
Chromium	180	155.7		mg/Kg		86.5	70.0 - 130.0
Cobalt	81.6	75.58		mg/Kg		92.6	75.0 - 125.0
Copper	205	163.6		mg/Kg		79.8	75.1 - 124.9
Iron	6510	5577		mg/Kg		85.7	11.3 - 202.8
Lead	92.8	85.06		mg/Kg		91.7	81.8 - 118.5
Magnesium	1700	1457		mg/Kg		85.7	55.6 - 144.1
Manganese	531	454.6		mg/Kg		85.6	77.2 - 122.8
Nickel	313	296.1		mg/Kg		94.6	70.0 - 130.0
Potassium	1370	1337		mg/Kg		97.6	52.0 - 148.2
Selenium	165	124.0		mg/Kg		75.1	67.9 - 132.1
Silver	82.4	69.22		mg/Kg		84.0	71.0 - 128.6
Sodium	486	416.0		mg/Kg		85.6	59.5 - 140.5
Thallium	205	178.6		mg/Kg		87.1	72.2 - 128.3
Vanadium	103	92.17		mg/Kg		89.5	68.0 - 132.0
Zinc	166	144.7		mg/Kg		87.2	70.5 - 130.1

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

Lab Sample ID: 480-224566-3 MS
Client Sample ID: 12I-MW-2 (2-4')
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 729230
Prep Batch: 729028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5260		1110	6234	4	mg/Kg	☼	88	75 - 125
Antimony	15.8	U F1	109	35.57	F1	mg/Kg	☼	33	75 - 125
Arsenic	4.3	F1	218	94.80	F1	mg/Kg	☼	42	75 - 125
Barium	25.8	F1	218	117.5	F1	mg/Kg	☼	42	75 - 125
Beryllium	0.23	F1	109	46.53	F1	mg/Kg	☼	43	75 - 125
Cadmium	2.9	F1	109	49.61	F1	mg/Kg	☼	43	75 - 125
Chromium	7.1	F1	109	49.49	F1	mg/Kg	☼	39	75 - 125
Cobalt	2.7	F1	109	56.04	F1	mg/Kg	☼	49	75 - 125
Copper	8.3	F1	109	62.31	F1	mg/Kg	☼	50	75 - 125
Iron	9670		1110	7733	4	mg/Kg	☼	-175	75 - 125
Iron	9090		1110	6983	4	mg/Kg	☼	-190	75 - 125
Lead	47.9	F1	109	107.5	F1	mg/Kg	☼	55	75 - 125
Manganese	444		109	675.8	4	mg/Kg	☼	213	75 - 125
Nickel	7.9	F1	109	61.19	F1	mg/Kg	☼	49	75 - 125
Potassium	1910	F1	5440	5054	F1	mg/Kg	☼	58	75 - 125
Selenium	4.2	U F1	218	83.42	F1	mg/Kg	☼	38	75 - 125
Silver	0.21	J F1	10.9	5.26	F1	mg/Kg	☼	46	75 - 125
Sodium	241	F1	5440	2815	F1	mg/Kg	☼	47	75 - 125
Sodium	234	F1	5440	2736	F1	mg/Kg	☼	46	75 - 125
Thallium	6.3	U F1	218	109.7	F1	mg/Kg	☼	50	75 - 125
Vanadium	8.0	F1	109	54.58	F1	mg/Kg	☼	43	75 - 125
Zinc	643		109	243.9	4	mg/Kg	☼	-367	75 - 125

Lab Sample ID: 480-224566-3 MS
Client Sample ID: 12I-MW-2 (2-4')
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 729402
Prep Batch: 729028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	140000		5440	178000	4	mg/Kg	☼	691	75 - 125
Magnesium	64900		5440	86880	4	mg/Kg	☼	404	75 - 125

Lab Sample ID: 480-224566-3 MSD
Client Sample ID: 12I-MW-2 (2-4')
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 729230
Prep Batch: 729028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	5260		1060	5863	4	mg/Kg	☼	57	75 - 125	6	20
Antimony	15.8	U F1	104	31.58	F1	mg/Kg	☼	30	75 - 125	12	20
Arsenic	4.3	F1	208	96.01	F1	mg/Kg	☼	44	75 - 125	1	20
Barium	25.8	F1	208	121.2	F1	mg/Kg	☼	46	75 - 125	3	20
Beryllium	0.23	F1	104	45.48	F1	mg/Kg	☼	43	75 - 125	2	20
Cadmium	2.9	F1	104	49.78	F1	mg/Kg	☼	45	75 - 125	0	20
Chromium	7.1	F1	104	50.66	F1	mg/Kg	☼	42	75 - 125	2	20
Cobalt	2.7	F1	104	57.28	F1	mg/Kg	☼	52	75 - 125	2	20
Copper	8.3	F1	104	63.46	F1	mg/Kg	☼	53	75 - 125	2	20
Iron	9670		1060	8443	4	mg/Kg	☼	-116	75 - 125	9	20
Iron	9090		1060	7699	4	mg/Kg	☼	-131	75 - 125	10	20
Lead	47.9	F1	104	119.1	F1	mg/Kg	☼	68	75 - 125	10	20
Manganese	444		104	603.2	4	mg/Kg	☼	152	75 - 125	11	20

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

Lab Sample ID: 480-224566-3 MSD
Matrix: Solid
Analysis Batch: 729230

Client Sample ID: 12I-MW-2 (2-4')
Prep Type: Total/NA
Prep Batch: 729028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	7.9	F1	104	62.39	F1	mg/Kg	☼	52	75 - 125	2	20
Potassium	1910	F1	5210	4819	F1	mg/Kg	☼	56	75 - 125	5	20
Selenium	4.2	U F1	208	83.25	F1	mg/Kg	☼	40	75 - 125	0	20
Silver	0.21	J F1	10.4	5.40	F1	mg/Kg	☼	50	75 - 125	3	20
Sodium	241	F1	5210	2916	F1	mg/Kg	☼	51	75 - 125	4	20
Sodium	234	F1	5210	2769	F1	mg/Kg	☼	49	75 - 125	1	20
Thallium	6.3	U F1	208	110.0	F1	mg/Kg	☼	53	75 - 125	0	20
Vanadium	8.0	F1	104	54.30	F1	mg/Kg	☼	44	75 - 125	1	20
Zinc	643		104	229.9	4	mg/Kg	☼	-397	75 - 125	6	20

Lab Sample ID: 480-224566-3 MSD
Matrix: Solid
Analysis Batch: 729402

Client Sample ID: 12I-MW-2 (2-4')
Prep Type: Total/NA
Prep Batch: 729028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	140000		5210	188000	4	mg/Kg	☼	915	75 - 125	5	20
Magnesium	64900		5210	86760	4	mg/Kg	☼	420	75 - 125	0	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-729202/1-A
Matrix: Solid
Analysis Batch: 729316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0045	mg/Kg		10/22/24 10:00	10/22/24 12:13	1

Lab Sample ID: LCSSRM 480-729202/2-A ^10
Matrix: Solid
Analysis Batch: 729316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729202

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	11.9	10.51		mg/Kg		88.3	59.8 - 139.5

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-1006265/1-A
Matrix: Solid
Analysis Batch: 1006293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1006265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		11/11/24 09:15	11/11/24 10:33	1

Lab Sample ID: LCSI 460-1006265/3-A
Matrix: Solid
Analysis Batch: 1006293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1006265

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	688.5		mg/Kg		97	80 - 120

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSSRM 460-1006265/2-A
Matrix: Solid
Analysis Batch: 1006293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1006265

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	14.9	13.72		mg/Kg		91.9	84.2 - 114.5

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-729538/1-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.94	U	0.94	0.46	mg/Kg		10/23/24 13:58	10/23/24 19:33	1

Lab Sample ID: LCS 480-729538/3-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.408		mg/Kg		102	29 - 122

Lab Sample ID: LCS 480-729538/4-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.261		mg/Kg		104	29 - 122

Lab Sample ID: LCSSRM 480-729538/2-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	115.3		mg/Kg		76.8	38.9 - 138.7

Lab Sample ID: MB 480-730702/1-A
Matrix: Solid
Analysis Batch: 730810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.95	U	0.95	0.46	mg/Kg		10/31/24 14:10	10/31/24 18:10	1

Lab Sample ID: LCS 480-730702/3-A
Matrix: Solid
Analysis Batch: 730810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.418		mg/Kg		105	29 - 122

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-730702/4-A
Matrix: Solid
Analysis Batch: 730810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730702

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.257		mg/Kg		103	29 - 122		

Lab Sample ID: LCSSRM 480-730702/2-A
Matrix: Solid
Analysis Batch: 730810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730702

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			150	85.63		mg/Kg		57.1	38.9 - 138.7		

Lab Sample ID: 480-224566-1 MS
Matrix: Solid
Analysis Batch: 730810

Client Sample ID: 12I-MW-4 (1-3')
Prep Type: Total/NA
Prep Batch: 730702

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.93	U F1	1.20	1.0	U F1	mg/Kg	☼	0	85 - 115		

Lab Sample ID: 480-224566-1 DU
Matrix: Solid
Analysis Batch: 730810

Client Sample ID: 12I-MW-4 (1-3')
Prep Type: Total/NA
Prep Batch: 730702

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	0.93	U F1		0.97	U	mg/Kg	☼			NC	15

GC/MS VOA

Prep Batch: 729063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	5035A_L	
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	5035A_L	
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	5035A_L	
MB 480-729063/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-729063/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 729066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	8260C	729063
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	8260C	729063
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	8260C	729063
MB 480-729063/2-A	Method Blank	Total/NA	Solid	8260C	729063
LCS 480-729063/1-A	Lab Control Sample	Total/NA	Solid	8260C	729063

GC/MS Semi VOA

Prep Batch: 729224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	3550C	
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	3550C	
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	3550C	
MB 480-729224/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-729224/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 729434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-729224/1-A	Method Blank	Total/NA	Solid	8270D	729224
LCS 480-729224/2-A	Lab Control Sample	Total/NA	Solid	8270D	729224

Analysis Batch: 729559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	8270D	729224
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	8270D	729224
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	8270D	729224

GC Semi VOA

Prep Batch: 729003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	8151A	
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	8151A	
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	8151A	
MB 480-729003/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-729003/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Analysis Batch: 729296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	8151A	729003
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	8151A	729003
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	8151A	729003
MB 480-729003/1-A	Method Blank	Total/NA	Solid	8151A	729003
LCS 480-729003/2-A	Lab Control Sample	Total/NA	Solid	8151A	729003

GC Semi VOA

Prep Batch: 729364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	3550C	
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	3550C	
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	3550C	
MB 480-729364/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-729364/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-224566-3 MS	12I-MW-2 (2-4')	Total/NA	Solid	3550C	
480-224566-3 MSD	12I-MW-2 (2-4')	Total/NA	Solid	3550C	

Prep Batch: 729367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	3550C	
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	3550C	
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	3550C	
MB 480-729367/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-729367/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-224566-3 MS	12I-MW-2 (2-4')	Total/NA	Solid	3550C	
480-224566-3 MSD	12I-MW-2 (2-4')	Total/NA	Solid	3550C	

Analysis Batch: 729407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	8081B	729364
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	8081B	729364
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	8081B	729364
MB 480-729364/1-A	Method Blank	Total/NA	Solid	8081B	729364
LCS 480-729364/2-A	Lab Control Sample	Total/NA	Solid	8081B	729364
480-224566-3 MS	12I-MW-2 (2-4')	Total/NA	Solid	8081B	729364
480-224566-3 MSD	12I-MW-2 (2-4')	Total/NA	Solid	8081B	729364

Analysis Batch: 729420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	8082A	729367
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	8082A	729367
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	8082A	729367
MB 480-729367/1-A	Method Blank	Total/NA	Solid	8082A	729367
LCS 480-729367/2-A	Lab Control Sample	Total/NA	Solid	8082A	729367
480-224566-3 MS	12I-MW-2 (2-4')	Total/NA	Solid	8082A	729367
480-224566-3 MSD	12I-MW-2 (2-4')	Total/NA	Solid	8082A	729367

LCMS

Prep Batch: 632409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	1633 Shake	
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	1633 Shake	
MB 240-632409/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-632409/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-632409/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
480-224566-3 DU	12I-MW-2 (2-4')	Total/NA	Solid	1633 Shake	

LCMS

Analysis Batch: 632696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	Draft-3 1633	632409
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	Draft-3 1633	632409
MB 240-632409/1-A	Method Blank	Total/NA	Solid	Draft-3 1633	632409
LCS 240-632409/3-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	632409
LLCS 240-632409/2-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	632409
480-224566-3 DU	12I-MW-2 (2-4')	Total/NA	Solid	Draft-3 1633	632409

Metals

Prep Batch: 729028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	3050B	
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	3050B	
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	3050B	
MB 480-729028/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-729028/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-224566-3 MS	12I-MW-2 (2-4')	Total/NA	Solid	3050B	
480-224566-3 MSD	12I-MW-2 (2-4')	Total/NA	Solid	3050B	

Prep Batch: 729202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	7471B	
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	7471B	
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	7471B	
MB 480-729202/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-729202/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 729230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	6010C	729028
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	6010C	729028
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	6010C	729028
MB 480-729028/1-A	Method Blank	Total/NA	Solid	6010C	729028
LCSSRM 480-729028/2-A	Lab Control Sample	Total/NA	Solid	6010C	729028
480-224566-3 MS	12I-MW-2 (2-4')	Total/NA	Solid	6010C	729028
480-224566-3 MSD	12I-MW-2 (2-4')	Total/NA	Solid	6010C	729028

Analysis Batch: 729316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	7471B	729202
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	7471B	729202
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	7471B	729202
MB 480-729202/1-A	Method Blank	Total/NA	Solid	7471B	729202
LCSSRM 480-729202/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	729202

Analysis Batch: 729402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	6010C	729028
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	6010C	729028
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	6010C	729028
480-224566-3 MS	12I-MW-2 (2-4')	Total/NA	Solid	6010C	729028

Metals (Continued)

Analysis Batch: 729402 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-3 MSD	12I-MW-2 (2-4')	Total/NA	Solid	6010C	729028

General Chemistry

Analysis Batch: 729295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	Moisture	
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	Moisture	
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	Moisture	

Prep Batch: 729538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	9012B	
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	9012B	
MB 480-729538/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-729538/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-729538/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-729538/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 729607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	9012B	729538
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	9012B	729538
MB 480-729538/1-A	Method Blank	Total/NA	Solid	9012B	729538
LCS 480-729538/3-A	Lab Control Sample	Total/NA	Solid	9012B	729538
LCS 480-729538/4-A	Lab Control Sample	Total/NA	Solid	9012B	729538
LCSSRM 480-729538/2-A	Lab Control Sample	Total/NA	Solid	9012B	729538

Prep Batch: 730702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	9012B	
MB 480-730702/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-730702/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-730702/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-730702/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-224566-1 MS	12I-MW-4 (1-3')	Total/NA	Solid	9012B	
480-224566-1 DU	12I-MW-4 (1-3')	Total/NA	Solid	9012B	

Analysis Batch: 730810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	9012B	730702
MB 480-730702/1-A	Method Blank	Total/NA	Solid	9012B	730702
LCS 480-730702/3-A	Lab Control Sample	Total/NA	Solid	9012B	730702
LCS 480-730702/4-A	Lab Control Sample	Total/NA	Solid	9012B	730702
LCSSRM 480-730702/2-A	Lab Control Sample	Total/NA	Solid	9012B	730702
480-224566-1 MS	12I-MW-4 (1-3')	Total/NA	Solid	9012B	730702
480-224566-1 DU	12I-MW-4 (1-3')	Total/NA	Solid	9012B	730702

Prep Batch: 1006265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	3060A	

General Chemistry (Continued)

Prep Batch: 1006265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	3060A	
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	3060A	
MB 460-1006265/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-1006265/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-1006265/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 1006293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224566-1	12I-MW-4 (1-3')	Total/NA	Solid	7196A	1006265
480-224566-2	12I-MW-4 (10-12')	Total/NA	Solid	7196A	1006265
480-224566-3	12I-MW-2 (2-4')	Total/NA	Solid	7196A	1006265
MB 460-1006265/1-A	Method Blank	Total/NA	Solid	7196A	1006265
LCSI 460-1006265/3-A	Lab Control Sample	Total/NA	Solid	7196A	1006265
LCSSRM 460-1006265/2-A	Lab Control Sample	Total/NA	Solid	7196A	1006265

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224566-1
Project/Site: The Nest Site Analysis

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1
Date Collected: 10/18/24 08:40
Matrix: Solid
Date Received: 10/18/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	729295	VXF	EET BUF	10/22/24 12:09

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1
Date Collected: 10/18/24 08:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			729063	CDC	EET BUF	10/20/24 17:07
Total/NA	Analysis	8260C		1	729066	CDC	EET BUF	10/21/24 01:42
Total/NA	Prep	3550C			729224	DP	EET BUF	10/22/24 06:55
Total/NA	Analysis	8270D		1	729559	JMM	EET BUF	10/24/24 11:33
Total/NA	Prep	3550C			729364	SJM	EET BUF	10/22/24 17:45
Total/NA	Analysis	8081B		1	729407	JLS	EET BUF	10/23/24 12:43
Total/NA	Prep	3550C			729367	SJM	EET BUF	10/22/24 17:48
Total/NA	Analysis	8082A		1	729420	H9RU	EET BUF	10/23/24 19:19
Total/NA	Prep	8151A			729003	DP	EET BUF	10/20/24 07:03
Total/NA	Analysis	8151A		1	729296	JLS	EET BUF	10/22/24 15:39
Total/NA	Prep	1633 Shake			632409	JVB4	EET CLE	10/25/24 08:10
Total/NA	Analysis	Draft-3 1633		1	632696	MRL	EET CLE	10/28/24 17:01
Total/NA	Prep	3050B			729028	ET	EET BUF	10/20/24 12:44
Total/NA	Analysis	6010C		1	729230	BMB	EET BUF	10/21/24 17:48
Total/NA	Prep	3050B			729028	ET	EET BUF	10/20/24 12:44
Total/NA	Analysis	6010C		5	729402	BMB	EET BUF	10/22/24 14:39
Total/NA	Prep	7471B			729202	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:46
Total/NA	Prep	3060A			1006265	MNP	EET EDI	11/11/24 09:15 - 11/11/24 10:15 [1]
Total/NA	Analysis	7196A		1	1006293	MNP	EET EDI	11/11/24 10:33
Total/NA	Prep	9012B			730702	AM	EET BUF	10/31/24 14:10
Total/NA	Analysis	9012B		1	730810	AM	EET BUF	10/31/24 18:14

Client Sample ID: 12I-MW-4 (10-12')
Lab Sample ID: 480-224566-2
Date Collected: 10/18/24 09:40
Matrix: Solid
Date Received: 10/18/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	729295	VXF	EET BUF	10/22/24 12:09

Client Sample ID: 12I-MW-4 (10-12')
Lab Sample ID: 480-224566-2
Date Collected: 10/18/24 09:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			729063	CDC	EET BUF	10/20/24 17:07
Total/NA	Analysis	8260C		1	729066	CDC	EET BUF	10/21/24 02:06

Client Sample ID: 12I-MW-4 (10-12')
Lab Sample ID: 480-224566-2

Date Collected: 10/18/24 09:40
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			729224	DP	EET BUF	10/22/24 06:55
Total/NA	Analysis	8270D		5	729559	JMM	EET BUF	10/24/24 11:58
Total/NA	Prep	3550C			729364	SJM	EET BUF	10/22/24 17:45
Total/NA	Analysis	8081B		20	729407	JLS	EET BUF	10/23/24 12:23
Total/NA	Prep	3550C			729367	SJM	EET BUF	10/22/24 17:48
Total/NA	Analysis	8082A		1	729420	H9RU	EET BUF	10/23/24 19:01
Total/NA	Prep	8151A			729003	DP	EET BUF	10/20/24 07:03
Total/NA	Analysis	8151A		1	729296	JLS	EET BUF	10/22/24 15:57
Total/NA	Prep	3050B			729028	ET	EET BUF	10/20/24 12:44
Total/NA	Analysis	6010C		1	729230	BMB	EET BUF	10/21/24 17:50
Total/NA	Prep	3050B			729028	ET	EET BUF	10/20/24 12:44
Total/NA	Analysis	6010C		5	729402	BMB	EET BUF	10/22/24 14:41
Total/NA	Prep	7471B			729202	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:48
Total/NA	Prep	3060A			1006265	MNP	EET EDI	11/11/24 09:15 - 11/11/24 10:15 [1]
Total/NA	Analysis	7196A		1	1006293	MNP	EET EDI	11/11/24 10:33
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:41

Client Sample ID: 12I-MW-2 (2-4')
Lab Sample ID: 480-224566-3

Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	729295	VXF	EET BUF	10/22/24 12:09

Client Sample ID: 12I-MW-2 (2-4')
Lab Sample ID: 480-224566-3

Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			729063	CDC	EET BUF	10/20/24 17:07
Total/NA	Analysis	8260C		1	729066	CDC	EET BUF	10/21/24 02:30
Total/NA	Prep	3550C			729224	DP	EET BUF	10/22/24 06:55
Total/NA	Analysis	8270D		10	729559	JMM	EET BUF	10/24/24 12:22
Total/NA	Prep	3550C			729364	SJM	EET BUF	10/22/24 17:45
Total/NA	Analysis	8081B		20	729407	JLS	EET BUF	10/23/24 12:04
Total/NA	Prep	3550C			729367	SJM	EET BUF	10/22/24 17:48
Total/NA	Analysis	8082A		1	729420	H9RU	EET BUF	10/23/24 18:42
Total/NA	Prep	8151A			729003	DP	EET BUF	10/20/24 07:03
Total/NA	Analysis	8151A		1	729296	JLS	EET BUF	10/22/24 16:34
Total/NA	Prep	1633 Shake			632409	JVB4	EET CLE	10/25/24 08:10
Total/NA	Analysis	Draft-3 1633		1	632696	MRL	EET CLE	10/28/24 17:17
Total/NA	Prep	3050B			729028	ET	EET BUF	10/20/24 12:44
Total/NA	Analysis	6010C		1	729230	BMB	EET BUF	10/21/24 17:52

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224566-1
Project/Site: The Nest Site Analysis

Client Sample ID: 12I-MW-2 (2-4')
Lab Sample ID: 480-224566-3

Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:20
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			729028	ET	EET BUF	10/20/24 12:44
Total/NA	Analysis	6010C		5	729402	BMB	EET BUF	10/22/24 14:43
Total/NA	Prep	7471B			729202	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:49
Total/NA	Prep	3060A			1006265	MNP	EET EDI	11/11/24 09:30 - 11/11/24 10:15 [1]
Total/NA	Analysis	7196A		1	1006293	MNP	EET EDI	11/11/24 10:33
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:42

[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
EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224566-1
Project/Site: The Nest Site Analysis

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
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
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
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	12-31-24

Laboratory: Eurofins Edison

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-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	04-01-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-31-24
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224566-1
Project/Site: The Nest Site Analysis

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
Draft-3 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
7196A	Chromium, Hexavalent	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET EDI
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
9012B	Cyanide, Total and/or Amenable, Distillation	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

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224566-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224566-1	12I-MW-4 (1-3')	Solid	10/18/24 08:40	10/18/24 16:20
480-224566-2	12I-MW-4 (10-12')	Solid	10/18/24 09:40	10/18/24 16:20
480-224566-3	12I-MW-2 (2-4')	Solid	10/18/24 15:00	10/18/24 16:20

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Environment Testing

Client Information

Client Contact: Jacob COX
Company: BE3 (Bridges Eng.)
Address: 960 Busti Ave
City: Buffalo
State, Zip: NY, 14213
Phone: 716-249-6880
Email: JCox@BE3corp.com
Site:

Sampler: Jacob COX
Phone: 716-418-0792
Lab PM: J. Beninati
E-Mail: John.Beninati@eurofinsus.com
Carrier Tracking No(s):
State of Origin:
Accreditations Required (See note):
Due Date Requested:
TAT Requested (days): Standard
PO #:
WO #:
SSOW#:

COC No:
Page:
Job #:

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

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 TCL VOC +TICs	6010C, 7471B, 8081B, 8082A	8151A, 8270D	7196A, 9012B	1633 - final 1633	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
RI-MW-4 (1-3')	10-18-24	8:40AM	G				X	X	X	X	X		Added Hex Chrom. + Cyanide
RI-MW-4 (10-12')	10-18-24	9:40AM	G				X	X	X	X			RI-MW-4 (10-12') - No PFAS
RI-MW-2 (2-4')	10-18-24	3:00PM	G				X	X	X	X	X		

480-224566 Chain of Custody

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

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

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	Company	Received by	Date/Time	Company
	Joseph Genco	10-18-24@4:20pm	BE3		10-18-24 1620	TAL
	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: 5.1 IR#5 ICE

Ver: 06/08/2021

11/12/2024

Eurofins Buffalo
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 (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-89952.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-224566-1
Address: 180 S. Van Buren Avenue, ,	Due Date Requested: 10/31/2024			
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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:
-

Other: N/A

P81-9

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/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
			Preservation Code:					
12I-MW-4 (1-3') (480-224566-1)	10/18/24	08:40 Eastern	G	Solid			X	1
12I-MW-2 (2-4') (480-224566-3)	10/18/24	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 *Unconfirmed*	***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) 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]	10-22-24 1600		JESSE MOROSKO	10/23/24 0945	GEL
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:

Ver: 10/10/2024

11/12/2024

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client Eurofins Buffalo Site Name _____ Cooler unpacked by: JMOROSKO

Cooler Received on 10/23/24 Opened on 10/23/24

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 # 24 (CF 1.0 °C) Observed Cooler Temp. 4.8 °C Corrected Cooler Temp. 4.8 °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# HC447997
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: 27.80 LB
CAD: 0759273/CAFE3855
DIMS: 18x15x13 IN

BILL SENDER

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF: BARBERTON

Part # 158969-494 MTN EXP 04/25
589CS/4FB6/FE2B

FedEx Express

J243024070401uv

TRK# 0201 7463 0659 9691

WED - 23 OCT 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224566-1

Login Number: 224566
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	be3
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224566-1

Login Number: 224566
List Number: 3
Creator: Armbruster, Chris

List Source: Eurofins Edison
List Creation: 11/08/24 12:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9/2.1°C IR9
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 11/7/2024 1:02:00 PM

JOB DESCRIPTION

The Nest Site Analysis - Soil

JOB NUMBER

480-224894-1

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
11/7/2024 1:02:00 PM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
(716)504-9874

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

Qualifiers

GC/MS 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.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated 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.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 480-224894-1 Eurofins Buffalo

Job Narrative
480-224894-1

Receipt
The samples were received on 10/28/2024 4:38 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BH-2 (2-4') (480-224894-1), BH-4 (2-4') (480-224894-2), BH-7 (2-4') (480-224894-3), (480-224894-A-1-B MS) and (480-224894-A-1-C MSD). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples required a dilution due to the nature of the sample matrix: BH-2 (2-4') (480-224894-1) and BH-7 (2-4') (480-224894-3). 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: The continuing calibration verification (CCV) associated with batch 480-730417 recovered above the upper control limit for 2-Nitroaniline and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH-2 (2-4') (480-224894-1), BH-4 (2-4') (480-224894-2) and BH-7 (2-4') (480-224894-3).

Method 8270D: The following samples were diluted due to the nature of the sample matrix: (480-224894-A-1-B MS) and (480-224894-A-1-C MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample: (480-224894-A-1-F MS) and (480-224894-A-1-G MSD). As such, surrogate and spike 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: BH-2 (2-4') (480-224894-1), BH-4 (2-4') (480-224894-2) and BH-7 (2-4') (480-224894-3). 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 480-730372 and analytical batch 480-730567 contained alpha-BHC, delta-BHC and Lindane 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: BH-2 (2-4') (480-224894-1), BH-4 (2-4') (480-224894-2) and BH-7 (2-4') (480-224894-3).

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

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

LCMS
Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-633666 recovered above the upper control limit for. The samples associated with this CCV were below the RL for the affected analytes; therefore, the data have been reported.

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

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

Organic Prep
Method 3550C: The following samples required a Florisil clean-up, via 3620C, to reduce matrix interferences: BH-2 (2-4') (480-224894-1), BH-4 (2-4') (480-224894-2), BH-7 (2-4') (480-224894-3), (480-224894-A-1 MS) and (480-224894-A-1 MSD).

Job ID: 480-224894-1 (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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

Client Sample ID: BH-2 (2-4')
Lab Sample ID: 480-224894-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1	J vs	26	4.4	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.72	J vs B	5.2	0.32	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	13	vs B	5.2	2.4	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	2.5	J vs	5.2	0.70	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.92	J vs	5.2	0.40	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	1.9	J vs	5.2	1.2	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	440	J F1	3600	360	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	640	J	3600	570	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	400	J	3600	380	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	1100	J F1	3600	380	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	630	J F1	3600	530	ug/Kg	20	☼	8270D	Total/NA
Pyrene	890	J F1	3600	420	ug/Kg	20	☼	8270D	Total/NA
alpha-BHC	7.8	J B	36	6.4	ug/Kg	20	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.11	J	0.18	0.044	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	6600		10.4	9.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.0		2.1	0.91	mg/Kg	1	☼	6010C	Total/NA
Barium	41.2		0.52	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.28		0.21	0.042	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.86		0.21	0.073	mg/Kg	1	☼	6010C	Total/NA
Calcium	90700		260	140	mg/Kg	5	☼	6010C	Total/NA
Chromium	9.2		0.52	0.37	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.5		0.52	0.10	mg/Kg	1	☼	6010C	Total/NA
Copper	16.1		1.0	0.59	mg/Kg	1	☼	6010C	Total/NA
Iron	8140		10.4	8.8	mg/Kg	1	☼	6010C	Total/NA
Lead	119		1.0	0.48	mg/Kg	1	☼	6010C	Total/NA
Magnesium	41100		20.8	8.8	mg/Kg	1	☼	6010C	Total/NA
Manganese	448		1.0	0.29	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.8		5.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1810		31.2	25.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	315		146	63.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.4		0.52	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	303		2.1	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.13		0.021	0.0048	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH-4 (2-4')
Lab Sample ID: 480-224894-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J vs	28	4.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.36	J vs	5.6	0.27	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.76	J vs B	5.6	0.35	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	11	vs B	5.6	2.6	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.5	J vs	5.6	0.75	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.85	J vs	5.6	0.42	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	810	J	940	140	ug/Kg	5	☼	8270D	Total/NA
Anthracene	2100		940	230	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	3900		940	94	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	3000		940	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	3300		940	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1700		940	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1900		940	120	ug/Kg	5	☼	8270D	Total/NA
Carbazole	920	J	940	110	ug/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: BH-4 (2-4') (Continued)
Lab Sample ID: 480-224894-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	3300		940	210	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	530	J	940	170	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	440	J	940	110	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	8900		940	100	ug/Kg	5	☼	8270D	Total/NA
Fluorene	860	J	940	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1500		940	120	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	190	J	940	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	7200		940	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	6800		940	110	ug/Kg	5	☼	8270D	Total/NA
alpha-BHC	8.7	J B	37	6.6	ug/Kg	20	☼	8081B	Total/NA
Lindane	7.6	J B	37	6.7	ug/Kg	20	☼	8081B	Total/NA
Aluminum	5800		11.2	9.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.0		2.2	0.98	mg/Kg	1	☼	6010C	Total/NA
Barium	119		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.26		0.22	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.3		0.22	0.078	mg/Kg	1	☼	6010C	Total/NA
Calcium	77900		55.8	30.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.7		0.56	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.8		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	14.5		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Iron	12200		11.2	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	155		1.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Magnesium	39400		22.3	9.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	382		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	6.8		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1610		33.5	27.0	mg/Kg	1	☼	6010C	Total/NA
Sodium	260		156	68.4	mg/Kg	1	☼	6010C	Total/NA
Thallium	0.90	J	6.7	0.85	mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.2		0.56	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	401		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.79		0.023	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH-7 (2-4')
Lab Sample ID: 480-224894-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.59	J vs B	5.3	0.33	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	9.5	vs B	5.3	2.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.49	J vs	5.3	0.40	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	730	J	3600	540	ug/Kg	20	☼	8270D	Total/NA
Acenaphthylene	1900	J	3600	470	ug/Kg	20	☼	8270D	Total/NA
Anthracene	3600		3600	900	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene	8200		3600	360	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	7400		3600	540	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	8400		3600	580	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4600		3600	390	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	4100		3600	470	ug/Kg	20	☼	8270D	Total/NA
Carbazole	780	J	3600	430	ug/Kg	20	☼	8270D	Total/NA
Chrysene	8000		3600	810	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	1200	J	3600	640	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	860	J	3600	430	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	21000		3600	390	ug/Kg	20	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH-7 (2-4') (Continued)
Lab Sample ID: 480-224894-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	1500	J	3600	430	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	3900		3600	450	ug/Kg	20	☼	8270D	Total/NA
Naphthalene	920	J	3600	470	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	14000		3600	540	ug/Kg	20	☼	8270D	Total/NA
Pyrene	16000		3600	430	ug/Kg	20	☼	8270D	Total/NA
4,4'-DDT	8.6	J	35	8.2	ug/Kg	20	☼	8081B	Total/NA
alpha-BHC	11	J B	35	6.3	ug/Kg	20	☼	8081B	Total/NA
beta-BHC	23	J	35	6.3	ug/Kg	20	☼	8081B	Total/NA
delta-BHC	8.6	J B	35	6.5	ug/Kg	20	☼	8081B	Total/NA
Lindane	8.5	J B	35	6.4	ug/Kg	20	☼	8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	0.24	J	0.34	0.086	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.093	J	0.17	0.043	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.26		0.17	0.043	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	4540		11.2	9.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.5		2.2	0.98	mg/Kg	1	☼	6010C	Total/NA
Barium	41.7		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.20	J	0.22	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.66		0.22	0.078	mg/Kg	1	☼	6010C	Total/NA
Calcium	104000		280	151	mg/Kg	5	☼	6010C	Total/NA
Chromium	5.9		0.56	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.2		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	10.2		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Iron	5720		11.2	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	95.9		1.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Magnesium	56600		112	47.4	mg/Kg	5	☼	6010C	Total/NA
Manganese	464		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	5.9		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1240		33.6	27.1	mg/Kg	1	☼	6010C	Total/NA
Sodium	475		157	68.6	mg/Kg	1	☼	6010C	Total/NA
Thallium	0.87	J	6.7	0.85	mg/Kg	1	☼	6010C	Total/NA
Vanadium	8.5		0.56	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	357		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.39		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH-2 (2-4')
Date Collected: 10/28/24 10:30
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-1
Matrix: Solid
Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.2	U vs	5.2	0.38	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,1,2,2-Tetrachloroethane	5.2	U vs	5.2	0.85	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,1,2-Trichloroethane	5.2	U vs	5.2	0.68	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U vs	5.2	1.2	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,1-Dichloroethane	5.2	U vs	5.2	0.64	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,1-Dichloroethene	5.2	U vs	5.2	0.64	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,2,4-Trichlorobenzene	5.2	U vs	5.2	0.32	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,2-Dibromo-3-Chloropropane	5.2	U vs	5.2	2.6	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,2-Dichlorobenzene	5.2	U vs	5.2	0.41	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,2-Dichloroethane	5.2	U vs	5.2	0.26	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,2-Dichloropropane	5.2	U vs	5.2	2.6	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,3-Dichlorobenzene	5.2	U vs	5.2	0.27	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,4-Dichlorobenzene	5.2	U vs	5.2	0.73	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
2-Butanone (MEK)	26	U vs	26	1.9	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
2-Hexanone	26	U vs	26	2.6	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Acetone	**5.1**	**J vs**	26	4.4	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Benzene	5.2	U vs	5.2	0.26	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Bromodichloromethane	5.2	U vs	5.2	0.70	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Bromoform	5.2	U vs	5.2	2.6	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Bromomethane	5.2	U vs	5.2	0.47	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Carbon disulfide	5.2	U vs	5.2	2.6	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Carbon tetrachloride	5.2	U vs	5.2	0.51	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Chlorobenzene	5.2	U vs	5.2	0.69	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Dibromochloromethane	5.2	U vs	5.2	0.67	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Chloroethane	5.2	U vs	5.2	1.2	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Chloroform	**0.72**	**J vs B**	5.2	0.32	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Chloromethane	5.2	U vs	5.2	0.32	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
cis-1,2-Dichloroethene	5.2	U vs	5.2	0.67	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
cis-1,3-Dichloropropene	5.2	U vs	5.2	0.75	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Cyclohexane	5.2	U vs	5.2	0.73	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Dichlorodifluoromethane	5.2	U vs	5.2	0.43	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Ethylbenzene	5.2	U vs	5.2	0.36	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
1,2-Dibromoethane	5.2	U vs	5.2	0.67	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Isopropylbenzene	5.2	U vs	5.2	0.79	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Methyl acetate	26	U vs	26	3.2	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Methyl tert-butyl ether	5.2	U vs	5.2	0.51	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Methylcyclohexane	5.2	U vs	5.2	0.80	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Methylene Chloride	**13**	**vs B**	5.2	2.4	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Styrene	5.2	U vs	5.2	0.26	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Tetrachloroethene	**2.5**	**J vs**	5.2	0.70	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Toluene	**0.92**	**J vs**	5.2	0.40	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
trans-1,2-Dichloroethene	5.2	U vs	5.2	0.54	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
trans-1,3-Dichloropropene	5.2	U vs	5.2	2.3	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Trichloroethene	**1.9**	**J vs**	5.2	1.2	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Trichlorofluoromethane	5.2	U vs	5.2	0.50	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Vinyl chloride	5.2	U vs	5.2	0.64	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1
Xylenes, Total	10	U vs	10	0.88	ug/Kg	☼	10/29/24 18:07	10/30/24 02:06	1

Client Sample ID: BH-2 (2-4')
Date Collected: 10/28/24 10:30
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-1
Matrix: Solid
Percent Solids: 93.7

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1,3-Butadiene, 1,1,3,4-tetrachloro-	6.4	T J N	ug/Kg	☼	11.18	42769-38-0	10/29/24 18:07	10/30/24 02:06	1
1,3-Butadiene, pentachloro-	16	T J N	ug/Kg	☼	12.12	55880-77-8	10/29/24 18:07	10/30/24 02:06	1
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	16	T J N	ug/Kg	☼	12.53	87-68-3	10/29/24 18:07	10/30/24 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	112		71 - 125	10/29/24 18:07	10/30/24 02:06	1
1,2-Dichloroethane-d4 (Surr)	97		64 - 126	10/29/24 18:07	10/30/24 02:06	1
4-Bromofluorobenzene (Surr)	87		72 - 126	10/29/24 18:07	10/30/24 02:06	1
Dibromofluoromethane (Surr)	100		60 - 140	10/29/24 18:07	10/30/24 02:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2100	U F1	2100	1200	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2,4,5-Trichlorophenol	3600	U	3600	980	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2,4,6-Trichlorophenol	3600	U	3600	720	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2,4-Dichlorophenol	3600	U	3600	380	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2,4-Dimethylphenol	3600	U	3600	870	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2,4-Dinitrophenol	35000	U	35000	17000	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2,4-Dinitrotoluene	3600	U	3600	740	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2,6-Dinitrotoluene	3600	U F2	3600	420	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2-Chloronaphthalene	3600	U	3600	590	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2-Chlorophenol	7000	U	7000	660	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2-Methylnaphthalene	3600	U	3600	720	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2-Methylphenol	3600	U	3600	420	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2-Nitroaniline	7000	U F2	7000	530	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
2-Nitrophenol	3600	U	3600	1000	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
3,3'-Dichlorobenzidine	7000	U	7000	4200	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
3-Nitroaniline	7000	U	7000	1000	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
4,6-Dinitro-2-methylphenol	7000	U	7000	3600	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
4-Bromophenyl phenyl ether	3600	U	3600	510	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
4-Chloro-3-methylphenol	3600	U	3600	890	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
4-Chloroaniline	3600	U	3600	890	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
4-Chlorophenyl phenyl ether	3600	U	3600	450	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
4-Methylphenol	7000	U	7000	420	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
4-Nitroaniline	7000	U	7000	1900	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
4-Nitrophenol	7000	U F1	7000	2500	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Acenaphthene	3600	U	3600	530	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Acenaphthylene	3600	U	3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Acetophenone	3600	U	3600	490	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Anthracene	3600	U	3600	890	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Atrazine	3600	U	3600	1300	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Benzaldehyde	3600	U	3600	2900	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Benzo[a]anthracene	**440**	**J F1**	3600	360	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Benzo[a]pyrene	3600	U F1	3600	530	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Benzo[b]fluoranthene	**640**	**J**	3600	570	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Benzo[g,h,i]perylene	**400**	**J**	3600	380	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Benzo[k]fluoranthene	3600	U	3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Biphenyl	3600	U	3600	530	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
bis (2-chloroisopropyl) ether	3600	U	3600	720	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Bis(2-chloroethoxy)methane	3600	U	3600	760	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20

Client Sample ID: BH-2 (2-4')
Date Collected: 10/28/24 10:30
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-1
Matrix: Solid
Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	3600	U	3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Bis(2-ethylhexyl) phthalate	3600	U F1	3600	1200	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Butyl benzyl phthalate	3600	U F1 F2	3600	590	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Caprolactam	3600	U	3600	1100	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Carbazole	3600	U	3600	420	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Chrysene	3600	U F1	3600	810	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Dibenz(a,h)anthracene	3600	U	3600	640	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Dibenzofuran	3600	U	3600	420	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Diethyl phthalate	3600	U F2	3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Dimethyl phthalate	3600	U F1 F2	3600	420	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Di-n-butyl phthalate	3600	U	3600	620	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Di-n-octyl phthalate	3600	U F1	3600	420	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Fluoranthene	**1100**	**J F1**	3600	380	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Fluorene	3600	U	3600	420	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Hexachlorobenzene	3600	U	3600	490	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Hexachlorobutadiene	3600	U	3600	530	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Hexachlorocyclopentadiene	3600	U	3600	490	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Hexachloroethane	3600	U	3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Indeno[1,2,3-cd]pyrene	3600	U	3600	450	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Isophorone	3600	U	3600	760	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Naphthalene	3600	U	3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Nitrobenzene	3600	U	3600	400	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
N-Nitrosodi-n-propylamine	3600	U	3600	620	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
N-Nitrosodiphenylamine	3600	U	3600	2900	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Pentachlorophenol	7000	U	7000	3600	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Phenanthrene	**630**	**J F1**	3600	530	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Phenol	3600	U	3600	550	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20
Pyrene	**890**	**J F1**	3600	420	ug/Kg	☼	10/29/24 17:50	10/30/24 15:40	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*26 - 143*	*10/29/24 17:50*	*10/30/24 15:40*	*20*
2-Fluorobiphenyl (Surr)	*89*		*50 - 121*	*10/29/24 17:50*	*10/30/24 15:40*	*20*
2-Fluorophenol (Surr)	*65*		*36 - 120*	*10/29/24 17:50*	*10/30/24 15:40*	*20*
Nitrobenzene-d5 (Surr)	*80*		*40 - 121*	*10/29/24 17:50*	*10/30/24 15:40*	*20*
Phenol-d5 (Surr)	*63*		*41 - 120*	*10/29/24 17:50*	*10/30/24 15:40*	*20*
p-Terphenyl-d14 (Surr)	*88*		*46 - 143*	*10/29/24 17:50*	*10/30/24 15:40*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	36	U	36	6.9	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
4,4'-DDE	36	U	36	7.4	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
4,4'-DDT	36	U	36	8.3	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
Aldrin	36	U	36	8.7	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
alpha-BHC	**7.8**	**J B**	36	6.4	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
beta-BHC	36	U	36	6.4	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
Chlordane (.alpha.)	36	U F1	36	18	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
delta-BHC	36	U F1	36	6.6	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
Dieldrin	36	U F2	36	8.5	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
Endosulfan I	36	U F2	36	6.8	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
Endosulfan II	36	U	36	6.4	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20

Client Sample ID: BH-2 (2-4')
Date Collected: 10/28/24 10:30
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-1
Matrix: Solid
Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	36	U	36	6.6	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
Endrin	36	U	36	7.0	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
Heptachlor	36	U	36	7.7	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20
Lindane	36	U F1	36	6.5	ug/Kg	☼	10/30/24 07:05	10/31/24 10:41	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*144*	*S1+*	*45 - 120*	*10/30/24 07:05*	*10/31/24 10:41*	*20*
DCB Decachlorobiphenyl	*180*	*S1+*	*45 - 120*	*10/30/24 07:05*	*10/31/24 10:41*	*20*
Tetrachloro-m-xylene	*146*	*S1+*	*30 - 124*	*10/30/24 07:05*	*10/31/24 10:41*	*20*
Tetrachloro-m-xylene	*229*	*S1+*	*30 - 124*	*10/30/24 07:05*	*10/31/24 10:41*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.19	U	0.19	0.038	mg/Kg	☼	10/29/24 18:14	10/31/24 14:15	1
PCB-1221	0.19	U	0.19	0.038	mg/Kg	☼	10/29/24 18:14	10/31/24 14:15	1
PCB-1232	0.19	U	0.19	0.038	mg/Kg	☼	10/29/24 18:14	10/31/24 14:15	1
PCB-1242	0.19	U	0.19	0.038	mg/Kg	☼	10/29/24 18:14	10/31/24 14:15	1
PCB-1248	0.19	U	0.19	0.038	mg/Kg	☼	10/29/24 18:14	10/31/24 14:15	1
PCB-1254	0.19	U	0.19	0.090	mg/Kg	☼	10/29/24 18:14	10/31/24 14:15	1
PCB-1260	0.19	U	0.19	0.090	mg/Kg	☼	10/29/24 18:14	10/31/24 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*124*		*60 - 154*	*10/29/24 18:14*	*10/31/24 14:15*	*1*
Tetrachloro-m-xylene	*96*		*60 - 154*	*10/29/24 18:14*	*10/31/24 14:15*	*1*
DCB Decachlorobiphenyl	*113*		*65 - 174*	*10/29/24 18:14*	*10/31/24 14:15*	*1*
DCB Decachlorobiphenyl	*86*		*65 - 174*	*10/29/24 18:14*	*10/31/24 14:15*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	18	U	18	6.4	ug/Kg	☼	10/30/24 17:37	11/01/24 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*64*		*28 - 129*	*10/30/24 17:37*	*11/01/24 15:37*	*1*
2,4-Dichlorophenylacetic acid	*63*		*28 - 129*	*10/30/24 17:37*	*11/01/24 15:37*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.70	U	0.70	0.18	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.088	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1

Client Sample ID: BH-2 (2-4')
Date Collected: 10/28/24 10:30
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-1
Matrix: Solid
Percent Solids: 93.7

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorooctanesulfonic acid (PFOS)	**0.11**	**J**	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.70	U	0.70	0.18	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.70	U	0.70	0.18	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.70	U	0.70	0.18	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.44	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.44	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.70	U	0.70	0.18	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.70	U	0.70	0.18	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.088	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.088	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.70	U	0.70	0.18	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.70	U	0.70	0.18	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.088	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.88	U	0.88	0.22	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	4.4	1.1	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.4	U	4.4	1.1	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.088	ug/Kg	☼	11/01/24 08:56	11/03/24 02:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95.5*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:10*	*1*
13C5 PFPeA	*80.0*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:10*	*1*
13C5 PFHxA	*83.7*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:10*	*1*
13C4 PFHpA	*88.3*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:10*	*1*

Client Sample ID: BH-2 (2-4')
Date Collected: 10/28/24 10:30
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-1
Matrix: Solid
Percent Solids: 93.7

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	89.9		20 - 150	11/01/24 08:56	11/03/24 02:10	1
13C9 PFNA	88.3		20 - 150	11/01/24 08:56	11/03/24 02:10	1
13C6 PFDA	90.2		20 - 150	11/01/24 08:56	11/03/24 02:10	1
13C7 PFUnA	88.4		20 - 150	11/01/24 08:56	11/03/24 02:10	1
13C2 PFTeDA	82.3		20 - 150	11/01/24 08:56	11/03/24 02:10	1
13C3 PFBS	89.8		20 - 150	11/01/24 08:56	11/03/24 02:10	1
13C3 PFHxS	84.2		20 - 150	11/01/24 08:56	11/03/24 02:10	1
13C8 PFOS	84.9		20 - 150	11/01/24 08:56	11/03/24 02:10	1
13C8 PFOSA	68.2		20 - 150	11/01/24 08:56	11/03/24 02:10	1
d3-NMeFOSAA	74.7		20 - 150	11/01/24 08:56	11/03/24 02:10	1
d5-NEtFOSAA	87.9		20 - 150	11/01/24 08:56	11/03/24 02:10	1
M2-4:2 FTS	97.4		20 - 150	11/01/24 08:56	11/03/24 02:10	1
M2-6:2 FTS	94.2		20 - 150	11/01/24 08:56	11/03/24 02:10	1
M2-8:2 FTS	92.8		20 - 150	11/01/24 08:56	11/03/24 02:10	1
13C3 HFPO-DA	87.6		20 - 150	11/01/24 08:56	11/03/24 02:10	1
d7-N-MeFOSE-M	69.8		20 - 150	11/01/24 08:56	11/03/24 02:10	1
d9-N-EtFOSE-M	69.7		20 - 150	11/01/24 08:56	11/03/24 02:10	1
d5-NEtPFOSA	60.2		20 - 150	11/01/24 08:56	11/03/24 02:10	1
D3-NMeFOSA	59.2		20 - 150	11/01/24 08:56	11/03/24 02:10	1
13C2-PFDoDA	86.5		20 - 150	11/01/24 08:56	11/03/24 02:10	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6600**		10.4	9.0	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Antimony	15.6	U	15.6	0.55	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Arsenic	**3.0**		2.1	0.91	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Barium	**41.2**		0.52	0.15	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Beryllium	**0.28**		0.21	0.042	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Cadmium	**0.86**		0.21	0.073	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Calcium	**90700**		260	140	mg/Kg	☼	10/29/24 14:46	10/31/24 17:38	5
Chromium	**9.2**		0.52	0.37	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Cobalt	**3.5**		0.52	0.10	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Copper	**16.1**		1.0	0.59	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Iron	**8140**		10.4	8.8	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Lead	**119**		1.0	0.48	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Magnesium	**41100**		20.8	8.8	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Manganese	**448**		1.0	0.29	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Nickel	**8.8**		5.2	0.26	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Potassium	**1810**		31.2	25.2	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Selenium	4.2	U	4.2	0.83	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Silver	0.62	U	0.62	0.21	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Sodium	**315**		146	63.7	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Thallium	6.2	U	6.2	0.79	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Vanadium	**12.4**		0.52	0.14	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1
Zinc	**303**		2.1	1.1	mg/Kg	☼	10/29/24 14:46	10/30/24 17:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.021	0.0048	mg/Kg	☼	10/31/24 09:44	10/31/24 13:19	1

Client Sample ID: BH-2 (2-4')
Lab Sample ID: 480-224894-1
Date Collected: 10/28/24 10:30
Matrix: Solid
Date Received: 10/28/24 16:38
Percent Solids: 93.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.89	mg/Kg	☼	11/05/24 08:15	11/05/24 13:05	1
Cyanide, Total (SW846 9012B)	0.93	U	0.93	0.45	mg/Kg	☼	10/31/24 14:10	10/31/24 18:18	1

Client Sample ID: BH-4 (2-4')
Lab Sample ID: 480-224894-2
Date Collected: 10/28/24 12:30
Matrix: Solid
Date Received: 10/28/24 16:38
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.6	U vs	5.6	0.41	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,1,2,2-Tetrachloroethane	5.6	U vs	5.6	0.91	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,1,2-Trichloroethane	5.6	U vs	5.6	0.73	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U vs	5.6	1.3	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,1-Dichloroethane	5.6	U vs	5.6	0.68	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,1-Dichloroethene	5.6	U vs	5.6	0.68	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,2,4-Trichlorobenzene	5.6	U vs	5.6	0.34	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,2-Dibromo-3-Chloropropane	5.6	U vs	5.6	2.8	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,2-Dichlorobenzene	5.6	U vs	5.6	0.44	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,2-Dichloroethane	5.6	U vs	5.6	0.28	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,2-Dichloropropane	5.6	U vs	5.6	2.8	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,3-Dichlorobenzene	5.6	U vs	5.6	0.29	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,4-Dichlorobenzene	5.6	U vs	5.6	0.78	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
2-Butanone (MEK)	28	U vs	28	2.0	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
2-Hexanone	28	U vs	28	2.8	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
4-Methyl-2-pentanone (MIBK)	28	U vs	28	1.8	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Acetone	**14**	**J vs**	28	4.7	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Benzene	**0.36**	**J vs**	5.6	0.27	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Bromodichloromethane	5.6	U vs	5.6	0.75	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Bromoform	5.6	U vs	5.6	2.8	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Bromomethane	5.6	U vs	5.6	0.50	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Carbon disulfide	5.6	U vs	5.6	2.8	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Carbon tetrachloride	5.6	U vs	5.6	0.54	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Chlorobenzene	5.6	U vs	5.6	0.74	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Dibromochloromethane	5.6	U vs	5.6	0.72	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Chloroethane	5.6	U vs	5.6	1.3	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Chloroform	**0.76**	**J vs B**	5.6	0.35	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Chloromethane	5.6	U vs	5.6	0.34	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
cis-1,2-Dichloroethene	5.6	U vs	5.6	0.72	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
cis-1,3-Dichloropropene	5.6	U vs	5.6	0.80	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Cyclohexane	5.6	U vs	5.6	0.78	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Dichlorodifluoromethane	5.6	U vs	5.6	0.46	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Ethylbenzene	5.6	U vs	5.6	0.39	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
1,2-Dibromoethane	5.6	U vs	5.6	0.72	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Isopropylbenzene	5.6	U vs	5.6	0.84	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Methyl acetate	28	U vs	28	3.4	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Methyl tert-butyl ether	5.6	U vs	5.6	0.55	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Methylcyclohexane	5.6	U vs	5.6	0.85	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Methylene Chloride	**11**	**vs B**	5.6	2.6	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Styrene	5.6	U vs	5.6	0.28	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Tetrachloroethene	**1.5**	**J vs**	5.6	0.75	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1

Client Sample ID: BH-4 (2-4')
Date Collected: 10/28/24 12:30
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-2
Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**0.85**	**J vs**	5.6	0.42	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
trans-1,2-Dichloroethene	5.6	U vs	5.6	0.58	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
trans-1,3-Dichloropropene	5.6	U vs	5.6	2.5	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Trichloroethene	5.6	U vs	5.6	1.2	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Trichlorofluoromethane	5.6	U vs	5.6	0.53	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Vinyl chloride	5.6	U vs	5.6	0.68	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1
Xylenes, Total	11	U vs	11	0.94	ug/Kg	☼	10/29/24 18:07	10/30/24 02:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*10/29/24 18:07*	*10/30/24 02:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*71 - 125*	*10/29/24 18:07*	*10/30/24 02:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*	*10/29/24 18:07*	*10/30/24 02:33*	*1*
4-Bromofluorobenzene (Surr)	*86*		*72 - 126*	*10/29/24 18:07*	*10/30/24 02:33*	*1*
Dibromofluoromethane (Surr)	*96*		*60 - 140*	*10/29/24 18:07*	*10/30/24 02:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	550	U	550	300	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2,4,5-Trichlorophenol	940	U	940	250	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2,4,6-Trichlorophenol	940	U	940	190	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2,4-Dichlorophenol	940	U	940	100	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2,4-Dimethylphenol	940	U	940	230	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2,4-Dinitrophenol	9200	U	9200	4300	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2,4-Dinitrotoluene	940	U	940	190	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2,6-Dinitrotoluene	940	U	940	110	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2-Chloronaphthalene	940	U	940	160	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2-Chlorophenol	1800	U	1800	170	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2-Methylnaphthalene	940	U	940	190	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2-Methylphenol	940	U	940	110	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2-Nitroaniline	1800	U	1800	140	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
2-Nitrophenol	940	U	940	270	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
3,3'-Dichlorobenzidine	1800	U	1800	1100	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
3-Nitroaniline	1800	U	1800	260	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
4,6-Dinitro-2-methylphenol	1800	U	1800	940	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
4-Bromophenyl phenyl ether	940	U	940	130	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
4-Chloro-3-methylphenol	940	U	940	230	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
4-Chloroaniline	940	U	940	230	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
4-Chlorophenyl phenyl ether	940	U	940	120	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
4-Methylphenol	1800	U	1800	110	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
4-Nitroaniline	1800	U	1800	490	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
4-Nitrophenol	1800	U	1800	660	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Acenaphthene	**810**	**J**	940	140	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Acenaphthylene	940	U	940	120	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Acetophenone	940	U	940	130	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Anthracene	**2100**		940	230	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Atrazine	940	U	940	330	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Benzaldehyde	940	U	940	750	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Benzo[a]anthracene	**3900**		940	94	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5

Client Sample ID: BH-4 (2-4')
Date Collected: 10/28/24 12:30
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-2
Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**3000**		940	140	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Benzo[b]fluoranthene	**3300**		940	150	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Benzo[g,h,i]perylene	**1700**		940	100	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Benzo[k]fluoranthene	**1900**		940	120	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Biphenyl	940	U	940	140	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
bis (2-chloroisopropyl) ether	940	U	940	190	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Bis(2-chloroethoxy)methane	940	U	940	200	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Bis(2-chloroethyl)ether	940	U	940	120	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Bis(2-ethylhexyl) phthalate	940	U	940	320	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Butyl benzyl phthalate	940	U	940	160	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Caprolactam	940	U	940	280	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Carbazole	**920**	**J**	940	110	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Chrysene	**3300**		940	210	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Dibenz(a,h)anthracene	**530**	**J**	940	170	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Dibenzofuran	**440**	**J**	940	110	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Diethyl phthalate	940	U	940	120	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Dimethyl phthalate	940	U	940	110	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Di-n-butyl phthalate	940	U	940	160	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Di-n-octyl phthalate	940	U	940	110	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Fluoranthene	**8900**		940	100	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Fluorene	**860**	**J**	940	110	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Hexachlorobenzene	940	U	940	130	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Hexachlorobutadiene	940	U	940	140	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Hexachlorocyclopentadiene	940	U	940	130	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Hexachloroethane	940	U	940	120	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Indeno[1,2,3-cd]pyrene	**1500**		940	120	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Isophorone	940	U	940	200	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Naphthalene	**190**	**J**	940	120	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Nitrobenzene	940	U	940	110	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
N-Nitrosodi-n-propylamine	940	U	940	160	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
N-Nitrosodiphenylamine	940	U	940	760	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Pentachlorophenol	1800	U	1800	940	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Phenanthrene	**7200**		940	140	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Phenol	940	U	940	140	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5
Pyrene	**6800**		940	110	ug/Kg	☼	10/29/24 17:50	10/30/24 21:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*26 - 143*	*10/29/24 17:50*	*10/30/24 21:28*	*5*
2-Fluorobiphenyl (Surr)	*78*		*50 - 121*	*10/29/24 17:50*	*10/30/24 21:28*	*5*
2-Fluorophenol (Surr)	*76*		*36 - 120*	*10/29/24 17:50*	*10/30/24 21:28*	*5*
Nitrobenzene-d5 (Surr)	*77*		*40 - 121*	*10/29/24 17:50*	*10/30/24 21:28*	*5*
Phenol-d5 (Surr)	*79*		*41 - 120*	*10/29/24 17:50*	*10/30/24 21:28*	*5*
p-Terphenyl-d14 (Surr)	*87*		*46 - 143*	*10/29/24 17:50*	*10/30/24 21:28*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	37	U	37	7.1	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
4,4'-DDE	37	U	37	7.7	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
4,4'-DDT	37	U	37	8.6	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
Aldrin	37	U	37	9.0	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20

Client Sample ID: BH-4 (2-4')
Date Collected: 10/28/24 12:30
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-2
Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**8.7**	**J B**	37	6.6	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
beta-BHC	37	U	37	6.6	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
Chlordane (.alpha.)	37	U	37	18	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
delta-BHC	37	U	37	6.8	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
Dieldrin	37	U	37	8.8	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
Endosulfan I	37	U	37	7.0	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
Endosulfan II	37	U	37	6.6	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
Endosulfan sulfate	37	U	37	6.8	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
Endrin	37	U	37	7.3	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
Heptachlor	37	U	37	7.9	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20
Lindane	**7.6**	**J B**	37	6.7	ug/Kg	☼	10/30/24 07:05	10/31/24 11:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*141*	*S1+*	*45 - 120*	*10/30/24 07:05*	*10/31/24 11:00*	*20*
DCB Decachlorobiphenyl	*197*	*S1+*	*45 - 120*	*10/30/24 07:05*	*10/31/24 11:00*	*20*
Tetrachloro-m-xylene	*142*	*S1+*	*30 - 124*	*10/30/24 07:05*	*10/31/24 11:00*	*20*
Tetrachloro-m-xylene	*234*	*S1+*	*30 - 124*	*10/30/24 07:05*	*10/31/24 11:00*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.21	U	0.21	0.041	mg/Kg	☼	10/29/24 18:14	10/31/24 14:34	1
PCB-1221	0.21	U	0.21	0.041	mg/Kg	☼	10/29/24 18:14	10/31/24 14:34	1
PCB-1232	0.21	U	0.21	0.041	mg/Kg	☼	10/29/24 18:14	10/31/24 14:34	1
PCB-1242	0.21	U	0.21	0.041	mg/Kg	☼	10/29/24 18:14	10/31/24 14:34	1
PCB-1248	0.21	U	0.21	0.041	mg/Kg	☼	10/29/24 18:14	10/31/24 14:34	1
PCB-1254	0.21	U	0.21	0.098	mg/Kg	☼	10/29/24 18:14	10/31/24 14:34	1
PCB-1260	0.21	U	0.21	0.098	mg/Kg	☼	10/29/24 18:14	10/31/24 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*115*		*60 - 154*	*10/29/24 18:14*	*10/31/24 14:34*	*1*
Tetrachloro-m-xylene	*89*		*60 - 154*	*10/29/24 18:14*	*10/31/24 14:34*	*1*
DCB Decachlorobiphenyl	*107*		*65 - 174*	*10/29/24 18:14*	*10/31/24 14:34*	*1*
DCB Decachlorobiphenyl	*84*		*65 - 174*	*10/29/24 18:14*	*10/31/24 14:34*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	19	U	19	6.7	ug/Kg	☼	10/30/24 17:37	11/01/24 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*50*		*28 - 129*	*10/30/24 17:37*	*11/01/24 15:55*	*1*
2,4-Dichlorophenylacetic acid	*57*		*28 - 129*	*10/30/24 17:37*	*11/01/24 15:55*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.75	U	0.75	0.19	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.094	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1

Client Sample ID: BH-4 (2-4')
Date Collected: 10/28/24 12:30
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-2
Matrix: Solid
Percent Solids: 88.9

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.75	U	0.75	0.19	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.75	U	0.75	0.19	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.75	U	0.75	0.19	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.47	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.47	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.75	U	0.75	0.19	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.75	U	0.75	0.19	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.094	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.094	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.75	U	0.75	0.19	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.75	U	0.75	0.19	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U	0.38	0.094	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.94	U	0.94	0.24	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.7	U	4.7	1.2	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.7	U	4.7	1.2	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.047	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1

Client Sample ID: BH-4 (2-4')
Date Collected: 10/28/24 12:30
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-2
Matrix: Solid
Percent Solids: 88.9

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.094	ug/Kg	☼	11/01/24 08:56	11/03/24 02:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*97.5*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C5 PFPeA	*84.2*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C5 PFHxA	*85.8*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C4 PFHpA	*89.8*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C8 PFOA	*95.1*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C9 PFNA	*88.9*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C6 PFDA	*88.0*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C7 PFUnA	*85.2*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C2 PFTeDA	*87.6*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C3 PFBS	*84.5*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C3 PFHxS	*86.6*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C8 PFOS	*84.6*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C8 PFOSA	*82.2*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
d3-NMeFOSAA	*80.6*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
d5-NEtFOSAA	*91.6*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
M2-4:2 FTS	*103*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
M2-6:2 FTS	*103*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
M2-8:2 FTS	*104*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C3 HFPO-DA	*87.5*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
d7-N-MeFOSE-M	*68.7*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
d9-N-EtFOSE-M	*67.2*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
d5-NEtPFOSA	*68.0*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
D3-NMeFOSA	*66.6*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*
13C2-PFDoDA	*89.2*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:27*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5800**		11.2	9.6	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Antimony	16.7	U	16.7	0.59	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Arsenic	**4.0**		2.2	0.98	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Barium	**119**		0.56	0.16	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Beryllium	**0.26**		0.22	0.045	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Cadmium	**1.3**		0.22	0.078	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Calcium	**77900**		55.8	30.1	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Chromium	**8.7**		0.56	0.40	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Cobalt	**2.8**		0.56	0.11	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Copper	**14.5**		1.1	0.64	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Iron	**12200**		11.2	9.5	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Lead	**155**		1.1	0.51	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Magnesium	**39400**		22.3	9.5	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Manganese	**382**		1.1	0.31	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Nickel	**6.8**		5.6	0.28	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Potassium	**1610**		33.5	27.0	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Selenium	4.5	U	4.5	0.89	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Silver	0.67	U	0.67	0.22	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Sodium	**260**		156	68.4	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Thallium	**0.90**	**J**	6.7	0.85	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1

Client Sample ID: BH-4 (2-4')

Lab Sample ID: 480-224894-2
Date Collected: 10/28/24 12:30
Matrix: Solid
Date Received: 10/28/24 16:38
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	**12.2**		0.56	0.15	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1
Zinc	**401**		2.2	1.1	mg/Kg	☼	10/29/24 14:46	10/30/24 17:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.79**		0.023	0.0054	mg/Kg	☼	10/31/24 09:44	10/31/24 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.94	mg/Kg	☼	11/05/24 08:15	11/05/24 13:05	1
Cyanide, Total (SW846 9012B)	1.1	U	1.1	0.53	mg/Kg	☼	10/31/24 14:10	10/31/24 18:18	1

Client Sample ID: BH-7 (2-4')

Lab Sample ID: 480-224894-3
Date Collected: 10/28/24 12:00
Matrix: Solid
Date Received: 10/28/24 16:38
Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U vs	5.3	0.38	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,1,2,2-Tetrachloroethane	5.3	U vs	5.3	0.85	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,1,2-Trichloroethane	5.3	U vs	5.3	0.68	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U vs	5.3	1.2	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,1-Dichloroethane	5.3	U vs	5.3	0.64	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,1-Dichloroethene	5.3	U vs	5.3	0.64	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,2,4-Trichlorobenzene	5.3	U vs	5.3	0.32	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,2-Dibromo-3-Chloropropane	5.3	U vs	5.3	2.6	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,2-Dichlorobenzene	5.3	U vs	5.3	0.41	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,2-Dichloroethane	5.3	U vs	5.3	0.26	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,2-Dichloropropane	5.3	U vs	5.3	2.6	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,4-Dichlorobenzene	5.3	U vs	5.3	0.74	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
2-Butanone (MEK)	26	U vs	26	1.9	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
2-Hexanone	26	U vs	26	2.6	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Acetone	26	U vs	26	4.4	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Benzene	5.3	U vs	5.3	0.26	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Bromodichloromethane	5.3	U vs	5.3	0.71	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Bromoform	5.3	U vs	5.3	2.6	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Bromomethane	5.3	U vs	5.3	0.47	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Carbon disulfide	5.3	U vs	5.3	2.6	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Carbon tetrachloride	5.3	U vs	5.3	0.51	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Chlorobenzene	5.3	U vs	5.3	0.69	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Dibromochloromethane	5.3	U vs	5.3	0.67	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Chloroethane	5.3	U vs	5.3	1.2	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Chloroform	**0.59**	**J vs B**	5.3	0.33	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Chloromethane	5.3	U vs	5.3	0.32	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
cis-1,2-Dichloroethene	5.3	U vs	5.3	0.67	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
cis-1,3-Dichloropropene	5.3	U vs	5.3	0.76	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Cyclohexane	5.3	U vs	5.3	0.74	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Dichlorodifluoromethane	5.3	U vs	5.3	0.43	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1

Client Sample ID: BH-7 (2-4')
Date Collected: 10/28/24 12:00
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-3
Matrix: Solid
Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.3	U vs	5.3	0.36	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
1,2-Dibromoethane	5.3	U vs	5.3	0.68	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Isopropylbenzene	5.3	U vs	5.3	0.79	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Methyl acetate	26	U vs	26	3.2	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Methyl tert-butyl ether	5.3	U vs	5.3	0.52	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Methylcyclohexane	5.3	U vs	5.3	0.80	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Methylene Chloride	**9.5**	**vs B**	5.3	2.4	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Styrene	5.3	U vs	5.3	0.26	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Tetrachloroethene	5.3	U vs	5.3	0.71	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Toluene	**0.49**	**J vs**	5.3	0.40	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
trans-1,2-Dichloroethene	5.3	U vs	5.3	0.54	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
trans-1,3-Dichloropropene	5.3	U vs	5.3	2.3	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Trichloroethene	5.3	U vs	5.3	1.2	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Trichlorofluoromethane	5.3	U vs	5.3	0.50	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Vinyl chloride	5.3	U vs	5.3	0.64	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1
Xylenes, Total	11	U vs	11	0.88	ug/Kg	☼	10/29/24 18:07	10/30/24 03:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*10/29/24 18:07*	*10/30/24 03:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*71 - 125*	*10/29/24 18:07*	*10/30/24 03:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*	*10/29/24 18:07*	*10/30/24 03:00*	*1*
4-Bromofluorobenzene (Surr)	*90*		*72 - 126*	*10/29/24 18:07*	*10/30/24 03:00*	*1*
Dibromofluoromethane (Surr)	*96*		*60 - 140*	*10/29/24 18:07*	*10/30/24 03:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2100	U	2100	1200	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2,4,5-Trichlorophenol	3600	U	3600	980	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2,4,6-Trichlorophenol	3600	U	3600	730	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2,4-Dichlorophenol	3600	U	3600	390	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2,4-Dimethylphenol	3600	U	3600	880	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2,4-Dinitrophenol	36000	U	36000	17000	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2,4-Dinitrotoluene	3600	U	3600	750	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2,6-Dinitrotoluene	3600	U	3600	430	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2-Chloronaphthalene	3600	U	3600	600	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2-Chlorophenol	7100	U	7100	660	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2-Methylnaphthalene	3600	U	3600	730	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2-Methylphenol	3600	U	3600	430	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2-Nitroaniline	7100	U	7100	540	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
2-Nitrophenol	3600	U	3600	1000	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
3,3'-Dichlorobenzidine	7100	U	7100	4300	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
3-Nitroaniline	7100	U	7100	1000	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
4,6-Dinitro-2-methylphenol	7100	U	7100	3600	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
4-Bromophenyl phenyl ether	3600	U	3600	510	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
4-Chloro-3-methylphenol	3600	U	3600	900	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
4-Chloroaniline	3600	U	3600	900	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
4-Chlorophenyl phenyl ether	3600	U	3600	450	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
4-Methylphenol	7100	U	7100	430	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20

Client Sample ID: BH-7 (2-4')
Date Collected: 10/28/24 12:00
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-3
Matrix: Solid
Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	7100	U	7100	1900	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
4-Nitrophenol	7100	U	7100	2500	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Acenaphthene	**730**	**J**	3600	540	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Acenaphthylene	**1900**	**J**	3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Acetophenone	3600	U	3600	490	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Anthracene	**3600**		3600	900	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Atrazine	3600	U	3600	1300	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Benzaldehyde	3600	U	3600	2900	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Benzo[a]anthracene	**8200**		3600	360	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Benzo[a]pyrene	**7400**		3600	540	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Benzo[b]fluoranthene	**8400**		3600	580	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Benzo[g,h,i]perylene	**4600**		3600	390	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Benzo[k]fluoranthene	**4100**		3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Biphenyl	3600	U	3600	540	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
bis (2-chloroisopropyl) ether	3600	U	3600	730	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Bis(2-chloroethoxy)methane	3600	U	3600	770	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Bis(2-chloroethyl)ether	3600	U	3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Bis(2-ethylhexyl) phthalate	3600	U	3600	1200	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Butyl benzyl phthalate	3600	U	3600	600	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Caprolactam	3600	U	3600	1100	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Carbazole	**780**	**J**	3600	430	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Chrysene	**8000**		3600	810	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Dibenz(a,h)anthracene	**1200**	**J**	3600	640	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Dibenzofuran	**860**	**J**	3600	430	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Diethyl phthalate	3600	U	3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Dimethyl phthalate	3600	U	3600	430	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Di-n-butyl phthalate	3600	U	3600	620	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Di-n-octyl phthalate	3600	U	3600	430	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Fluoranthene	**21000**		3600	390	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Fluorene	**1500**	**J**	3600	430	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Hexachlorobenzene	3600	U	3600	490	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Hexachlorobutadiene	3600	U	3600	540	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Hexachlorocyclopentadiene	3600	U	3600	490	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Hexachloroethane	3600	U	3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Indeno[1,2,3-cd]pyrene	**3900**		3600	450	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Isophorone	3600	U	3600	770	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Naphthalene	**920**	**J**	3600	470	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Nitrobenzene	3600	U	3600	410	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
N-Nitrosodi-n-propylamine	3600	U	3600	620	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
N-Nitrosodiphenylamine	3600	U	3600	3000	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Pentachlorophenol	7100	U	7100	3600	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Phenanthrene	**14000**		3600	540	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Phenol	3600	U	3600	560	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20
Pyrene	**16000**		3600	430	ug/Kg	☼	10/29/24 17:50	10/30/24 21:53	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*26 - 143*	*10/29/24 17:50*	*10/30/24 21:53*	*20*
2-Fluorobiphenyl (Surr)	*84*		*50 - 121*	*10/29/24 17:50*	*10/30/24 21:53*	*20*
2-Fluorophenol (Surr)	*69*		*36 - 120*	*10/29/24 17:50*	*10/30/24 21:53*	*20*
Nitrobenzene-d5 (Surr)	*94*		*40 - 121*	*10/29/24 17:50*	*10/30/24 21:53*	*20*

Client Sample ID: BH-7 (2-4')
Date Collected: 10/28/24 12:00
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-3
Matrix: Solid
Percent Solids: 92.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*72*		*41 - 120*	*10/29/24 17:50*	*10/30/24 21:53*	*20*
p-Terphenyl-d14 (Surr)	*92*		*46 - 143*	*10/29/24 17:50*	*10/30/24 21:53*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	35	U	35	6.8	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
4,4'-DDE	35	U	35	7.3	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
4,4'-DDT	**8.6**	**J**	35	8.2	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
Aldrin	35	U	35	8.6	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
alpha-BHC	**11**	**J B**	35	6.3	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
beta-BHC	**23**	**J**	35	6.3	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
Chlordane (.alpha.)	35	U	35	17	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
delta-BHC	**8.6**	**J B**	35	6.5	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
Dieldrin	35	U	35	8.4	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
Endosulfan I	35	U	35	6.7	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
Endosulfan II	35	U	35	6.3	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
Endosulfan sulfate	35	U	35	6.5	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
Endrin	35	U	35	6.9	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
Heptachlor	35	U	35	7.6	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20
Lindane	**8.5**	**J B**	35	6.4	ug/Kg	☼	10/30/24 07:05	10/31/24 11:20	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*119*		*45 - 120*	*10/30/24 07:05*	*10/31/24 11:20*	*20*
DCB Decachlorobiphenyl	*613*	*S1+*	*45 - 120*	*10/30/24 07:05*	*10/31/24 11:20*	*20*
Tetrachloro-m-xylene	*140*	*S1+*	*30 - 124*	*10/30/24 07:05*	*10/31/24 11:20*	*20*
Tetrachloro-m-xylene	*169*	*S1+*	*30 - 124*	*10/30/24 07:05*	*10/31/24 11:20*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.20	U	0.20	0.039	mg/Kg	☼	10/29/24 18:14	10/31/24 14:52	1
PCB-1221	0.20	U	0.20	0.039	mg/Kg	☼	10/29/24 18:14	10/31/24 14:52	1
PCB-1232	0.20	U	0.20	0.039	mg/Kg	☼	10/29/24 18:14	10/31/24 14:52	1
PCB-1242	0.20	U	0.20	0.039	mg/Kg	☼	10/29/24 18:14	10/31/24 14:52	1
PCB-1248	0.20	U	0.20	0.039	mg/Kg	☼	10/29/24 18:14	10/31/24 14:52	1
PCB-1254	0.20	U	0.20	0.092	mg/Kg	☼	10/29/24 18:14	10/31/24 14:52	1
PCB-1260	0.20	U	0.20	0.092	mg/Kg	☼	10/29/24 18:14	10/31/24 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*97*		*60 - 154*	*10/29/24 18:14*	*10/31/24 14:52*	*1*
Tetrachloro-m-xylene	*87*		*60 - 154*	*10/29/24 18:14*	*10/31/24 14:52*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*10/29/24 18:14*	*10/31/24 14:52*	*1*
DCB Decachlorobiphenyl	*82*		*65 - 174*	*10/29/24 18:14*	*10/31/24 14:52*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	18	U	18	6.4	ug/Kg	☼	10/30/24 17:37	11/01/24 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*58*		*28 - 129*	*10/30/24 17:37*	*11/01/24 16:32*	*1*
2,4-Dichlorophenylacetic acid	*57*		*28 - 129*	*10/30/24 17:37*	*11/01/24 16:32*	*1*

Client Sample ID: BH-7 (2-4')
Date Collected: 10/28/24 12:00
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-3
Matrix: Solid
Percent Solids: 92.9

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.69	U	0.69	0.17	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluoropentanoic acid (PFPeA)	**0.24**	**J**	0.34	0.086	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorooctanoic acid (PFOA)	**0.093**	**J**	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorooctanesulfonic acid (PFOS)	**0.26**		0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.43	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.43	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.69	U	0.69	0.17	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.69	U	0.69	0.17	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.34	U	0.34	0.086	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.34	U	0.34	0.086	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.69	U	0.69	0.17	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.69	U	0.69	0.17	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1

Client Sample ID: BH-7 (2-4')
Date Collected: 10/28/24 12:00
Date Received: 10/28/24 16:38

Lab Sample ID: 480-224894-3
Matrix: Solid
Percent Solids: 92.9

Method: EPA Draft-3 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)	0.34	U	0.34	0.086	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.86	U	0.86	0.22	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.3	U	4.3	1.1	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.3	U	4.3	1.1	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.043	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.34	U	0.34	0.086	ug/Kg	☼	11/01/24 08:56	11/03/24 02:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86.3*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C5 PFPeA	*72.5*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C5 PFHxA	*74.2*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C4 PFHpA	*77.3*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C8 PFOA	*79.1*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C9 PFNA	*76.5*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C6 PFDA	*77.0*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C7 PFUnA	*75.4*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C2 PFTeDA	*82.2*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C3 PFBS	*77.0*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C3 PFHxS	*75.2*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C8 PFOS	*74.1*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C8 PFOSA	*58.9*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
d3-NMeFOSAA	*65.9*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
d5-NEtFOSAA	*76.7*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
M2-4:2 FTS	*86.6*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
M2-6:2 FTS	*86.0*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
M2-8:2 FTS	*89.6*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C3 HFPO-DA	*75.8*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
d7-N-MeFOSE-M	*55.7*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
d9-N-EtFOSE-M	*54.9*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
d5-NEtPFOSA	*55.8*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
D3-NMeFOSA	*56.1*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*
13C2-PFDoDA	*79.8*		*20 - 150*	*11/01/24 08:56*	*11/03/24 02:44*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4540**		11.2	9.6	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Antimony	16.8	U	16.8	0.59	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Arsenic	**2.5**		2.2	0.98	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Barium	**41.7**		0.56	0.16	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Beryllium	**0.20**	**J**	0.22	0.045	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Cadmium	**0.66**		0.22	0.078	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Calcium	**104000**		280	151	mg/Kg	☼	10/29/24 14:46	10/31/24 17:40	5
Chromium	**5.9**		0.56	0.40	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Cobalt	**2.2**		0.56	0.11	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Copper	**10.2**		1.1	0.64	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Iron	**5720**		11.2	9.5	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Lead	**95.9**		1.1	0.51	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

Client Sample ID: BH-7 (2-4')
Lab Sample ID: 480-224894-3
Date Collected: 10/28/24 12:00
Matrix: Solid
Date Received: 10/28/24 16:38
Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**56600**		112	47.4	mg/Kg	☼	10/29/24 14:46	10/31/24 17:40	5
Manganese	**464**		1.1	0.31	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Nickel	**5.9**		5.6	0.28	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Potassium	**1240**		33.6	27.1	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Selenium	4.5	U	4.5	0.90	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Silver	0.67	U	0.67	0.22	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Sodium	**475**		157	68.6	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Thallium	**0.87**	**J**	6.7	0.85	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Vanadium	**8.5**		0.56	0.15	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1
Zinc	**357**		2.2	1.1	mg/Kg	☼	10/29/24 14:46	10/30/24 17:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.39**		0.022	0.0050	mg/Kg	☼	10/31/24 09:44	10/31/24 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.89	mg/Kg	☼	11/05/24 08:15	11/05/24 13:05	1
Cyanide, Total (SW846 9012B)	0.94	U	0.94	0.45	mg/Kg	☼	10/31/24 14:10	10/31/24 18:19	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-224894-1	BH-2 (2-4')	112	97	87	100
480-224894-2	BH-4 (2-4')	109	98	86	96
480-224894-3	BH-7 (2-4')	104	97	90	96
LCS 480-730356/1-A	Lab Control Sample	101	95	99	96
MB 480-730356/2-A	Method Blank	100	97	96	97

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (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	PHL	TPHd14
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(41-120)	(46-143)
480-224894-1	BH-2 (2-4')	90	89	65	80	63	88
480-224894-1 MS	BH-2 (2-4')	102	90	67	100	85	100
480-224894-1 MSD	BH-2 (2-4')	107	81	55	90	76	89
480-224894-2	BH-4 (2-4')	86	78	76	77	79	87
480-224894-3	BH-7 (2-4')	93	84	69	94	72	92
LCS 480-730353/2-A	Lab Control Sample	104	94	95	91	100	100
MB 480-730353/1-A	Method Blank	90	84	87	81	88	97

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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)
480-224894-1	BH-2 (2-4')	144 S1+	180 S1+	146 S1+	229 S1+
480-224894-1 MS	BH-2 (2-4')	112	200 S1+	155 S1+	202 S1+
480-224894-1 MSD	BH-2 (2-4')	149 S1+	136 S1+	156 S1+	199 S1+
480-224894-2	BH-4 (2-4')	141 S1+	197 S1+	142 S1+	234 S1+
480-224894-3	BH-7 (2-4')	119	613 S1+	140 S1+	169 S1+
LCS 480-730372/2-A	Lab Control Sample	84	78	66	59
MB 480-730372/1-A	Method Blank	87	73	63	58

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

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)
480-224894-1	BH-2 (2-4')	96	124	86	113
480-224894-2	BH-4 (2-4')	89	115	84	107
480-224894-3	BH-7 (2-4')	87	97	82	108
LCS 480-730360/2-A	Lab Control Sample	114	151	122	148
MB 480-730360/1-A	Method Blank	108	137	108	130

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)
480-224894-1	BH-2 (2-4')	64	63
480-224894-2	BH-4 (2-4')	50	57
480-224894-3	BH-7 (2-4')	58	57
LCS 480-730561/2-A	Lab Control Sample	75	77
MB 480-730561/1-A	Method Blank	79	81

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

Method: Draft-3 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)
480-224894-1	BH-2 (2-4')	95.5	80.0	83.7	88.3	89.9	88.3	90.2	88.4
480-224894-2	BH-4 (2-4')	97.5	84.2	85.8	89.8	95.1	88.9	88.0	85.2
480-224894-3	BH-7 (2-4')	86.3	72.5	74.2	77.3	79.1	76.5	77.0	75.4
LCS 240-633477/3-A	Lab Control Sample	107	90.3	97.8	101	100	104	96.9	96.9
LLCS 240-633477/2-A	Lab Control Sample	98.6	85.5	92.6	94.5	90.8	93.8	85.7	84.9
MB 240-633477/1-A	Method Blank	96.2	82.6	82.8	87.7	90.0	89.0	89.5	83.2

		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)
480-224894-1	BH-2 (2-4')	82.3	89.8	84.2	84.9	68.2	74.7	87.9	97.4
480-224894-2	BH-4 (2-4')	87.6	84.5	86.6	84.6	82.2	80.6	91.6	103
480-224894-3	BH-7 (2-4')	82.2	77.0	75.2	74.1	58.9	65.9	76.7	86.6
LCS 240-633477/3-A	Lab Control Sample	78.8	104	97.1	94.5	82.0	88.8	104	116
LLCS 240-633477/2-A	Lab Control Sample	70.4	92.2	90.5	83.5	72.5	79.9	87.3	103
MB 240-633477/1-A	Method Blank	71.6	92.0	89.6	84.4	71.8	80.3	96.0	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)
480-224894-1	BH-2 (2-4')	94.2	92.8	87.6	69.8	69.7	60.2	59.2	86.5
480-224894-2	BH-4 (2-4')	103	104	87.5	68.7	67.2	68.0	66.6	89.2
480-224894-3	BH-7 (2-4')	86.0	89.6	75.8	55.7	54.9	55.8	56.1	79.8
LCS 240-633477/3-A	Lab Control Sample	113	112	101	82.0	79.6	63.1	67.4	90.7
LLCS 240-633477/2-A	Lab Control Sample	95.3	89.6	93.3	72.2	70.4	56.1	58.4	83.2
MB 240-633477/1-A	Method Blank	94.9	92.2	89.9	71.7	68.3	55.6	60.7	80.8

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

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

PFDoDA = 13C2-PFDoDA

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

Lab Sample ID: MB 480-730356/2-A
Matrix: Solid
Analysis Batch: 730358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
2-Hexanone	25	U	25	2.5	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Acetone	25	U	25	4.2	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Benzene	5.0	U	5.0	0.25	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Chloroform	0.576	J	5.0	0.31	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Chloromethane	5.0	U	5.0	0.30	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Methyl acetate	25	U	25	3.0	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Methylene Chloride	3.90	J	5.0	2.3	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Styrene	5.0	U	5.0	0.25	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Toluene	5.0	U	5.0	0.38	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		10/29/24 18:07	10/29/24 21:36	1
Xylenes, Total	10	U	10	0.84	ug/Kg		10/29/24 18:07	10/29/24 21:36	1

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

Lab Sample ID: MB 480-730356/2-A
Matrix: Solid
Analysis Batch: 730358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730356

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	10/29/24 18:07	10/29/24 21:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 125	10/29/24 18:07	10/29/24 21:36	1
1,2-Dichloroethane-d4 (Surr)	97		64 - 126	10/29/24 18:07	10/29/24 21:36	1
4-Bromofluorobenzene (Surr)	96		72 - 126	10/29/24 18:07	10/29/24 21:36	1
Dibromofluoromethane (Surr)	97		60 - 140	10/29/24 18:07	10/29/24 21:36	1

Lab Sample ID: LCS 480-730356/1-A
Matrix: Solid
Analysis Batch: 730358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	40.7		ug/Kg		81	77 - 121
1,1,2,2-Tetrachloroethane	50.0	45.4		ug/Kg		91	80 - 120
1,1,2-Trichloroethane	50.0	46.4		ug/Kg		93	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.4		ug/Kg		89	60 - 140
1,1-Dichloroethane	50.0	44.2		ug/Kg		88	73 - 126
1,1-Dichloroethene	50.0	43.1		ug/Kg		86	59 - 125
1,2,4-Trichlorobenzene	50.0	43.5		ug/Kg		87	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	41.7		ug/Kg		83	63 - 124
1,2-Dichlorobenzene	50.0	44.4		ug/Kg		89	75 - 120
1,2-Dichloroethane	50.0	44.1		ug/Kg		88	77 - 122
1,2-Dichloropropane	50.0	47.4		ug/Kg		95	75 - 124
1,3-Dichlorobenzene	50.0	45.1		ug/Kg		90	74 - 120
1,4-Dichlorobenzene	50.0	44.5		ug/Kg		89	73 - 120
2-Butanone (MEK)	250	256		ug/Kg		103	70 - 134
2-Hexanone	250	238		ug/Kg		95	59 - 130
4-Methyl-2-pentanone (MIBK)	250	227		ug/Kg		91	65 - 133
Acetone	250	267		ug/Kg		107	61 - 137
Benzene	50.0	47.4		ug/Kg		95	79 - 127
Bromodichloromethane	50.0	45.1		ug/Kg		90	80 - 122
Bromoform	50.0	42.4		ug/Kg		85	68 - 126
Bromomethane	50.0	44.2		ug/Kg		88	37 - 149
Carbon disulfide	50.0	41.5		ug/Kg		83	64 - 131
Carbon tetrachloride	50.0	39.3		ug/Kg		79	75 - 135
Chlorobenzene	50.0	47.4		ug/Kg		95	76 - 124
Dibromochloromethane	50.0	45.0		ug/Kg		90	76 - 125
Chloroethane	50.0	51.0		ug/Kg		102	69 - 135
Chloroform	50.0	43.8		ug/Kg		88	80 - 120
Chloromethane	50.0	42.9		ug/Kg		86	63 - 127
cis-1,2-Dichloroethene	50.0	46.0		ug/Kg		92	81 - 120
cis-1,3-Dichloropropene	50.0	48.0		ug/Kg		96	80 - 120
Cyclohexane	50.0	43.5		ug/Kg		87	65 - 120
Dichlorodifluoromethane	50.0	33.5		ug/Kg		67	57 - 142
Ethylbenzene	50.0	45.8		ug/Kg		92	80 - 120
1,2-Dibromoethane	50.0	47.5		ug/Kg		95	78 - 120

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

Lab Sample ID: LCS 480-730356/1-A
Matrix: Solid
Analysis Batch: 730358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	50.0	44.0		ug/Kg		88	72 - 120
Methyl acetate	100	99.6		ug/Kg		100	55 - 136
Methyl tert-butyl ether	50.0	43.6		ug/Kg		87	63 - 125
Methylcyclohexane	50.0	45.8		ug/Kg		92	60 - 140
Methylene Chloride	50.0	50.7		ug/Kg		101	61 - 127
Styrene	50.0	46.7		ug/Kg		93	80 - 120
Tetrachloroethene	50.0	45.3		ug/Kg		91	74 - 122
Toluene	50.0	45.5		ug/Kg		91	74 - 128
trans-1,2-Dichloroethene	50.0	44.8		ug/Kg		90	78 - 126
trans-1,3-Dichloropropene	50.0	46.3		ug/Kg		93	73 - 123
Trichloroethene	50.0	45.9		ug/Kg		92	77 - 129
Trichlorofluoromethane	50.0	46.5		ug/Kg		93	65 - 146
Vinyl chloride	50.0	45.0		ug/Kg		90	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*
Dibromofluoromethane (Surr)	*96*		*60 - 140*

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

Lab Sample ID: MB 480-730353/1-A
Matrix: Solid
Analysis Batch: 730417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	55	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2,4,5-Trichlorophenol	170	U	170	46	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2,4,6-Trichlorophenol	170	U	170	34	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2,4-Dichlorophenol	170	U	170	18	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2,4-Dimethylphenol	170	U	170	41	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2,4-Dinitrophenol	1700	U	1700	780	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2,4-Dinitrotoluene	170	U	170	35	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2,6-Dinitrotoluene	170	U	170	20	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2-Chloronaphthalene	170	U	170	28	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2-Chlorophenol	330	U	330	31	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2-Methylnaphthalene	170	U	170	34	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2-Methylphenol	170	U	170	20	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2-Nitroaniline	330	U	330	25	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
2-Nitrophenol	170	U	170	48	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
3,3'-Dichlorobenzidine	330	U	330	200	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
3-Nitroaniline	330	U	330	47	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
4,6-Dinitro-2-methylphenol	330	U	330	170	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
4-Bromophenyl phenyl ether	170	U	170	24	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
4-Chloro-3-methylphenol	170	U	170	42	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
4-Chloroaniline	170	U	170	42	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
4-Chlorophenyl phenyl ether	170	U	170	21	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
4-Methylphenol	330	U	330	20	ug/Kg		10/29/24 17:50	10/30/24 14:02	1

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

Lab Sample ID: MB 480-730353/1-A
Matrix: Solid
Analysis Batch: 730417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	330	U	330	89	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
4-Nitrophenol	330	U	330	120	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Acenaphthene	170	U	170	25	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Acenaphthylene	170	U	170	22	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Acetophenone	170	U	170	23	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Anthracene	170	U	170	42	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Atrazine	170	U	170	59	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Benzaldehyde	170	U	170	140	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Biphenyl	170	U	170	25	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
bis (2-chloroisopropyl) ether	170	U	170	34	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Bis(2-chloroethoxy)methane	170	U	170	36	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Bis(2-chloroethyl)ether	170	U	170	22	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Bis(2-ethylhexyl) phthalate	170	U	170	58	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Butyl benzyl phthalate	170	U	170	28	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Caprolactam	170	U	170	51	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Carbazole	170	U	170	20	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Chrysene	170	U	170	38	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Dibenzofuran	170	U	170	20	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Diethyl phthalate	170	U	170	22	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Dimethyl phthalate	47.4	J	170	20	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Di-n-butyl phthalate	170	U	170	29	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Di-n-octyl phthalate	170	U	170	20	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Fluoranthene	170	U	170	18	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Fluorene	170	U	170	20	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Hexachlorobenzene	170	U	170	23	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Hexachlorobutadiene	170	U	170	25	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Hexachlorocyclopentadiene	170	U	170	23	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Hexachloroethane	170	U	170	22	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Isophorone	170	U	170	36	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Naphthalene	170	U	170	22	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Nitrobenzene	170	U	170	19	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
N-Nitrosodi-n-propylamine	170	U	170	29	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
N-Nitrosodiphenylamine	170	U	170	140	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Pentachlorophenol	330	U	330	170	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Phenanthrene	170	U	170	25	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Phenol	170	U	170	26	ug/Kg		10/29/24 17:50	10/30/24 14:02	1
Pyrene	170	U	170	20	ug/Kg		10/29/24 17:50	10/30/24 14:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*26 - 143*	*10/29/24 17:50*	*10/30/24 14:02*	*1*
2-Fluorobiphenyl (Surr)	*84*		*50 - 121*	*10/29/24 17:50*	*10/30/24 14:02*	*1*

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

Lab Sample ID: MB 480-730353/1-A
Matrix: Solid
Analysis Batch: 730417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730353

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	*87*		*36 - 120*	*10/29/24 17:50*	*10/30/24 14:02*	*1*
Nitrobenzene-d5 (Surr)	*81*		*40 - 121*	*10/29/24 17:50*	*10/30/24 14:02*	*1*
Phenol-d5 (Surr)	*88*		*41 - 120*	*10/29/24 17:50*	*10/30/24 14:02*	*1*
p-Terphenyl-d14 (Surr)	*97*		*46 - 143*	*10/29/24 17:50*	*10/30/24 14:02*	*1*

Lab Sample ID: LCS 480-730353/2-A
Matrix: Solid
Analysis Batch: 730417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1330	739		ug/Kg		55	23 - 120
2,4,5-Trichlorophenol	1330	1390		ug/Kg		104	59 - 126
2,4,6-Trichlorophenol	1330	1350		ug/Kg		101	59 - 123
2,4-Dichlorophenol	1330	1280		ug/Kg		96	61 - 120
2,4-Dimethylphenol	1330	1330		ug/Kg		99	59 - 120
2,4-Dinitrophenol	2670	2820		ug/Kg		106	41 - 146
2,4-Dinitrotoluene	1330	1400		ug/Kg		105	63 - 120
2,6-Dinitrotoluene	1330	1360		ug/Kg		102	66 - 120
2-Chloronaphthalene	1330	1290		ug/Kg		96	57 - 120
2-Chlorophenol	1330	1260		ug/Kg		94	53 - 120
2-Methylnaphthalene	1330	1220		ug/Kg		91	59 - 120
2-Methylphenol	1330	1270		ug/Kg		95	54 - 120
2-Nitroaniline	1330	1550		ug/Kg		117	61 - 120
2-Nitrophenol	1330	1220		ug/Kg		91	56 - 120
3,3'-Dichlorobenzidine	1330	1050		ug/Kg		79	54 - 120
3-Nitroaniline	1330	1240		ug/Kg		93	48 - 120
4,6-Dinitro-2-methylphenol	2670	2790		ug/Kg		105	49 - 122
4-Bromophenyl phenyl ether	1330	1380		ug/Kg		103	58 - 120
4-Chloro-3-methylphenol	1330	1350		ug/Kg		101	61 - 120
4-Chloroaniline	1330	1170		ug/Kg		88	38 - 120
4-Chlorophenyl phenyl ether	1330	1350		ug/Kg		101	63 - 124
4-Methylphenol	1330	1300		ug/Kg		98	55 - 120
4-Nitroaniline	1330	1320		ug/Kg		99	56 - 120
4-Nitrophenol	2670	2940		ug/Kg		110	43 - 147
Acenaphthene	1330	1290		ug/Kg		97	62 - 120
Acenaphthylene	1330	1390		ug/Kg		104	58 - 121
Acetophenone	1330	1270		ug/Kg		95	54 - 120
Anthracene	1330	1360		ug/Kg		102	62 - 120
Atrazine	1330	1490		ug/Kg		112	60 - 127
Benzaldehyde	1330	1290		ug/Kg		97	10 - 150
Benzo[a]anthracene	1330	1360		ug/Kg		102	65 - 120
Benzo[a]pyrene	1330	1400		ug/Kg		105	64 - 120
Benzo[b]fluoranthene	1330	1380		ug/Kg		104	64 - 120
Benzo[g,h,i]perylene	1330	1390		ug/Kg		104	45 - 145
Benzo[k]fluoranthene	1330	1370		ug/Kg		103	65 - 120
Biphenyl	1330	1300		ug/Kg		97	59 - 120
bis (2-chloroisopropyl) ether	1330	1290		ug/Kg		97	44 - 120
Bis(2-chloroethoxy)methane	1330	1290		ug/Kg		97	55 - 120

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

Lab Sample ID: LCS 480-730353/2-A
Matrix: Solid
Analysis Batch: 730417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	1330	1250		ug/Kg		94	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1490		ug/Kg		112	61 - 133
Butyl benzyl phthalate	1330	1480		ug/Kg		111	61 - 129
Caprolactam	1330	1250		ug/Kg		94	47 - 120
Carbazole	1330	1400		ug/Kg		105	65 - 120
Chrysene	1330	1340		ug/Kg		101	64 - 120
Dibenz(a,h)anthracene	1330	1420		ug/Kg		106	54 - 132
Dibenzofuran	1330	1290		ug/Kg		97	63 - 120
Diethyl phthalate	1330	1470		ug/Kg		110	66 - 120
Dimethyl phthalate	1330	1450		ug/Kg		109	65 - 124
Di-n-butyl phthalate	1330	1480		ug/Kg		111	58 - 130
Di-n-octyl phthalate	1330	1610		ug/Kg		121	57 - 133
Fluoranthene	1330	1440		ug/Kg		108	62 - 120
Fluorene	1330	1320		ug/Kg		99	63 - 120
Hexachlorobenzene	1330	1360		ug/Kg		102	60 - 120
Hexachlorobutadiene	1330	1130		ug/Kg		85	45 - 120
Hexachlorocyclopentadiene	1330	1200		ug/Kg		90	47 - 120
Hexachloroethane	1330	1060		ug/Kg		80	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1410		ug/Kg		106	56 - 134
Isophorone	1330	1340		ug/Kg		100	56 - 120
Naphthalene	1330	1160		ug/Kg		87	55 - 120
Nitrobenzene	1330	1260		ug/Kg		95	54 - 120
N-Nitrosodi-n-propylamine	1330	1360		ug/Kg		102	52 - 120
N-Nitrosodiphenylamine	1330	1330		ug/Kg		100	51 - 128
Pentachlorophenol	2670	2930		ug/Kg		110	10 - 120
Phenanthrene	1330	1340		ug/Kg		100	60 - 120
Phenol	1330	1270		ug/Kg		95	53 - 120
Pyrene	1330	1360		ug/Kg		102	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*26 - 143*
2-Fluorobiphenyl (Surr)	*94*		*50 - 121*
2-Fluorophenol (Surr)	*95*		*36 - 120*
Nitrobenzene-d5 (Surr)	*91*		*40 - 121*
Phenol-d5 (Surr)	*100*		*41 - 120*
p-Terphenyl-d14 (Surr)	*100*		*46 - 143*

Lab Sample ID: 480-224894-1 MS
Matrix: Solid
Analysis Batch: 730417

Client Sample ID: BH-2 (2-4')
Prep Type: Total/NA
Prep Batch: 730353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2100	U F1	1410	2100	U F1	ug/Kg	☼	0	13 - 120
2,4,5-Trichlorophenol	3600	U	1410	1400	J	ug/Kg	☼	99	46 - 120
2,4,6-Trichlorophenol	3600	U	1410	1510	J	ug/Kg	☼	108	41 - 123
2,4-Dichlorophenol	3600	U	1410	997	J	ug/Kg	☼	71	45 - 120
2,4-Dimethylphenol	3600	U	1410	1490	J	ug/Kg	☼	106	52 - 120
2,4-Dinitrophenol	35000	U	2820	35000	U	ug/Kg	☼	NC	41 - 146

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

Lab Sample ID: 480-224894-1 MS
Matrix: Solid
Analysis Batch: 730417

Client Sample ID: BH-2 (2-4')
Prep Type: Total/NA
Prep Batch: 730353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	3600	U	1410	1610	J	ug/Kg	☼	114	63 - 125
2,6-Dinitrotoluene	3600	U F2	1410	1570	J	ug/Kg	☼	112	66 - 120
2-Chloronaphthalene	3600	U	1410	1330	J	ug/Kg	☼	95	57 - 120
2-Chlorophenol	7000	U	1410	1090	J	ug/Kg	☼	78	43 - 120
2-Methylnaphthalene	3600	U	1410	1280	J	ug/Kg	☼	91	55 - 120
2-Methylphenol	3600	U	1410	1460	J	ug/Kg	☼	104	48 - 120
2-Nitroaniline	7000	U F2	1410	1430	J	ug/Kg	☼	102	61 - 120
2-Nitrophenol	3600	U	1410	1300	J	ug/Kg	☼	93	37 - 120
3,3'-Dichlorobenzidine	7000	U	1410	7000	U	ug/Kg	☼	NC	37 - 126
3-Nitroaniline	7000	U	1410	1380	J	ug/Kg	☼	98	48 - 120
4,6-Dinitro-2-methylphenol	7000	U	2820	7000	U	ug/Kg	☼	NC	23 - 149
4-Bromophenyl phenyl ether	3600	U	1410	1400	J	ug/Kg	☼	99	58 - 120
4-Chloro-3-methylphenol	3600	U	1410	1390	J	ug/Kg	☼	99	49 - 125
4-Chloroaniline	3600	U	1410	1250	J	ug/Kg	☼	89	38 - 120
4-Chlorophenyl phenyl ether	3600	U	1410	1320	J	ug/Kg	☼	93	63 - 124
4-Methylphenol	7000	U	1410	1190	J	ug/Kg	☼	85	50 - 120
4-Nitroaniline	7000	U	1410	7000	U	ug/Kg	☼	NC	47 - 120
4-Nitrophenol	7000	U F1	2820	7000	U F1	ug/Kg	☼	0	31 - 147
Acenaphthene	3600	U	1410	1440	J	ug/Kg	☼	102	60 - 120
Acenaphthylene	3600	U	1410	1460	J	ug/Kg	☼	104	58 - 121
Acetophenone	3600	U	1410	1180	J	ug/Kg	☼	84	47 - 120
Anthracene	3600	U	1410	1670	J	ug/Kg	☼	119	62 - 120
Atrazine	3600	U	1410	1740	J	ug/Kg	☼	123	60 - 150
Benzaldehyde	3600	U	1410	3600	U	ug/Kg	☼	NC	10 - 150
Benzo[a]anthracene	440	J F1	1410	2180	J F1	ug/Kg	☼	124	65 - 120
Benzo[a]pyrene	3600	U F1	1410	2190	J F1	ug/Kg	☼	156	64 - 120
Benzo[b]fluoranthene	640	J	1410	2450	J	ug/Kg	☼	128	10 - 150
Benzo[g,h,i]perylene	400	J	1410	2040	J	ug/Kg	☼	116	45 - 145
Benzo[k]fluoranthene	3600	U	1410	1720	J	ug/Kg	☼	122	23 - 150
Biphenyl	3600	U	1410	1340	J	ug/Kg	☼	95	58 - 120
bis (2-chloroisopropyl) ether	3600	U	1410	1310	J	ug/Kg	☼	93	31 - 120
Bis(2-chloroethoxy)methane	3600	U	1410	1310	J	ug/Kg	☼	93	52 - 120
Bis(2-chloroethyl)ether	3600	U	1410	1330	J	ug/Kg	☼	94	45 - 120
Bis(2-ethylhexyl) phthalate	3600	U F1	1410	2020	J F1	ug/Kg	☼	144	61 - 133
Butyl benzyl phthalate	3600	U F1 F2	1410	2140	J F1	ug/Kg	☼	152	61 - 120
Caprolactam	3600	U	1410	1660	J	ug/Kg	☼	118	37 - 133
Carbazole	3600	U	1410	1500	J	ug/Kg	☼	107	59 - 120
Chrysene	3600	U F1	1410	2130	J F1	ug/Kg	☼	151	64 - 120
Dibenz(a,h)anthracene	3600	U	1410	1490	J	ug/Kg	☼	106	54 - 132
Dibenzofuran	3600	U	1410	1380	J	ug/Kg	☼	98	62 - 120
Diethyl phthalate	3600	U F2	1410	1620	J	ug/Kg	☼	115	66 - 120
Dimethyl phthalate	3600	U F1 F2	1410	2030	J F1	ug/Kg	☼	144	65 - 124
Di-n-butyl phthalate	3600	U	1410	1690	J	ug/Kg	☼	120	58 - 130
Di-n-octyl phthalate	3600	U F1	1410	2060	J F1	ug/Kg	☼	147	57 - 133
Fluoranthene	1100	J F1	1410	3210	J F1	ug/Kg	☼	149	62 - 120
Fluorene	3600	U	1410	1420	J	ug/Kg	☼	101	63 - 120
Hexachlorobenzene	3600	U	1410	1360	J	ug/Kg	☼	97	60 - 120
Hexachlorobutadiene	3600	U	1410	1470	J	ug/Kg	☼	104	45 - 120
Hexachlorocyclopentadiene	3600	U	1410	1340	J	ug/Kg	☼	95	31 - 120

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

Lab Sample ID: 480-224894-1 MS
Matrix: Solid
Analysis Batch: 730417

Client Sample ID: BH-2 (2-4')
Prep Type: Total/NA
Prep Batch: 730353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachloroethane	3600	U	1410	1090	J	ug/Kg	☼	78	21 - 120
Indeno[1,2,3-cd]pyrene	3600	U	1410	1870	J	ug/Kg	☼	133	56 - 134
Isophorone	3600	U	1410	1560	J	ug/Kg	☼	111	56 - 120
Naphthalene	3600	U	1410	1310	J	ug/Kg	☼	93	46 - 120
Nitrobenzene	3600	U	1410	1320	J	ug/Kg	☼	94	49 - 120
N-Nitrosodi-n-propylamine	3600	U	1410	1510	J	ug/Kg	☼	107	46 - 120
N-Nitrosodiphenylamine	3600	U	1410	3600	U	ug/Kg	☼	NC	20 - 128
Pentachlorophenol	7000	U	2820	7000	U	ug/Kg	☼	NC	10 - 136
Phenanthrene	630	J F1	1410	2470	J F1	ug/Kg	☼	131	60 - 122
Phenol	3600	U	1410	1220	J	ug/Kg	☼	87	50 - 120
Pyrene	890	J F1	1410	2920	J F1	ug/Kg	☼	144	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*102*		*26 - 143*
2-Fluorobiphenyl (Surr)	*90*		*50 - 121*
2-Fluorophenol (Surr)	*67*		*36 - 120*
Nitrobenzene-d5 (Surr)	*100*		*40 - 121*
Phenol-d5 (Surr)	*85*		*41 - 120*
p-Terphenyl-d14 (Surr)	*100*		*46 - 143*

Lab Sample ID: 480-224894-1 MSD
Matrix: Solid
Analysis Batch: 730417

Client Sample ID: BH-2 (2-4')
Prep Type: Total/NA
Prep Batch: 730353

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2100	U F1	1410	2100	U F1	ug/Kg	☼	0	13 - 120	NC	50
2,4,5-Trichlorophenol	3600	U	1410	1360	J	ug/Kg	☼	96	46 - 120	3	18
2,4,6-Trichlorophenol	3600	U	1410	1400	J	ug/Kg	☼	100	41 - 123	8	19
2,4-Dichlorophenol	3600	U	1410	843	J	ug/Kg	☼	60	45 - 120	17	19
2,4-Dimethylphenol	3600	U	1410	1350	J	ug/Kg	☼	96	52 - 120	10	42
2,4-Dinitrophenol	35000	U	2810	35000	U	ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	3600	U	1410	1390	J	ug/Kg	☼	99	63 - 125	15	20
2,6-Dinitrotoluene	3600	U F2	1410	1330	J F2	ug/Kg	☼	94	66 - 120	17	15
2-Chloronaphthalene	3600	U	1410	1210	J	ug/Kg	☼	86	57 - 120	9	21
2-Chlorophenol	7000	U	1410	1090	J	ug/Kg	☼	77	43 - 120	1	25
2-Methylnaphthalene	3600	U	1410	1190	J	ug/Kg	☼	84	55 - 120	7	21
2-Methylphenol	3600	U	1410	1430	J	ug/Kg	☼	102	48 - 120	2	27
2-Nitroaniline	7000	U F2	1410	1060	J F2	ug/Kg	☼	75	61 - 120	30	15
2-Nitrophenol	3600	U	1410	1330	J	ug/Kg	☼	95	37 - 120	2	18
3,3'-Dichlorobenzidine	7000	U	1410	7000	U	ug/Kg	☼	NC	37 - 126	NC	25
3-Nitroaniline	7000	U	1410	1250	J	ug/Kg	☼	89	48 - 120	10	19
4,6-Dinitro-2-methylphenol	7000	U	2810	7000	U	ug/Kg	☼	NC	23 - 149	NC	15
4-Bromophenyl phenyl ether	3600	U	1410	1300	J	ug/Kg	☼	92	58 - 120	7	15
4-Chloro-3-methylphenol	3600	U	1410	1410	J	ug/Kg	☼	100	49 - 125	2	27
4-Chloroaniline	3600	U	1410	1170	J	ug/Kg	☼	83	38 - 120	6	22
4-Chlorophenyl phenyl ether	3600	U	1410	1190	J	ug/Kg	☼	84	63 - 124	10	16
4-Methylphenol	7000	U	1410	1180	J	ug/Kg	☼	84	50 - 120	1	24
4-Nitroaniline	7000	U	1410	7000	U	ug/Kg	☼	NC	47 - 120	NC	24

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

Lab Sample ID: 480-224894-1 MSD
Client Sample ID: BH-2 (2-4')
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 730417
Prep Batch: 730353

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol	7000	U F1	2810	7000	U F1	ug/Kg	☼	0	31 - 147	NC	25
Acenaphthene	3600	U	1410	1250	J	ug/Kg	☼	89	60 - 120	14	35
Acenaphthylene	3600	U	1410	1330	J	ug/Kg	☼	95	58 - 121	9	18
Acetophenone	3600	U	1410	1090	J	ug/Kg	☼	77	47 - 120	8	20
Anthracene	3600	U	1410	1470	J	ug/Kg	☼	105	62 - 120	13	15
Atrazine	3600	U	1410	1520	J	ug/Kg	☼	108	60 - 150	13	20
Benzaldehyde	3600	U	1410	3600	U	ug/Kg	☼	NC	10 - 150	NC	20
Benzo[a]anthracene	440	J F1	1410	2020	J	ug/Kg	☼	113	65 - 120	8	15
Benzo[a]pyrene	3600	U F1	1410	2120	J F1	ug/Kg	☼	151	64 - 120	3	15
Benzo[b]fluoranthene	640	J	1410	2280	J	ug/Kg	☼	116	10 - 150	7	15
Benzo[g,h,i]perylene	400	J	1410	1830	J	ug/Kg	☼	101	45 - 145	11	15
Benzo[k]fluoranthene	3600	U	1410	1600	J	ug/Kg	☼	114	23 - 150	7	22
Biphenyl	3600	U	1410	1170	J	ug/Kg	☼	83	58 - 120	14	20
bis (2-chloroisopropyl) ether	3600	U	1410	1210	J	ug/Kg	☼	86	31 - 120	7	24
Bis(2-chloroethoxy)methane	3600	U	1410	1130	J	ug/Kg	☼	81	52 - 120	14	17
Bis(2-chloroethyl)ether	3600	U	1410	1200	J	ug/Kg	☼	85	45 - 120	10	21
Bis(2-ethylhexyl) phthalate	3600	U F1	1410	1840	J	ug/Kg	☼	131	61 - 133	10	15
Butyl benzyl phthalate	3600	U F1 F2	1410	1770	J F1 F2	ug/Kg	☼	126	61 - 120	19	16
Caprolactam	3600	U	1410	1440	J	ug/Kg	☼	103	37 - 133	14	20
Carbazole	3600	U	1410	1290	J	ug/Kg	☼	92	59 - 120	15	20
Chrysene	3600	U F1	1410	2000	J F1	ug/Kg	☼	142	64 - 120	6	15
Dibenz(a,h)anthracene	3600	U	1410	1530	J	ug/Kg	☼	109	54 - 132	3	15
Dibenzofuran	3600	U	1410	1200	J	ug/Kg	☼	85	62 - 120	14	15
Diethyl phthalate	3600	U F2	1410	1360	J F2	ug/Kg	☼	97	66 - 120	18	15
Dimethyl phthalate	3600	U F1 F2	1410	1610	J F2	ug/Kg	☼	115	65 - 124	23	15
Di-n-butyl phthalate	3600	U	1410	1590	J	ug/Kg	☼	113	58 - 130	6	15
Di-n-octyl phthalate	3600	U F1	1410	1910	J F1	ug/Kg	☼	135	57 - 133	8	16
Fluoranthene	1100	J F1	1410	3120	J F1	ug/Kg	☼	142	62 - 120	3	15
Fluorene	3600	U	1410	1290	J	ug/Kg	☼	92	63 - 120	10	15
Hexachlorobenzene	3600	U	1410	1280	J	ug/Kg	☼	91	60 - 120	6	15
Hexachlorobutadiene	3600	U	1410	1310	J	ug/Kg	☼	93	45 - 120	11	44
Hexachlorocyclopentadiene	3600	U	1410	1370	J	ug/Kg	☼	97	31 - 120	2	49
Hexachloroethane	3600	U	1410	1080	J	ug/Kg	☼	77	21 - 120	1	46
Indeno[1,2,3-cd]pyrene	3600	U	1410	1750	J	ug/Kg	☼	124	56 - 134	7	15
Isophorone	3600	U	1410	1460	J	ug/Kg	☼	104	56 - 120	7	17
Naphthalene	3600	U	1410	1130	J	ug/Kg	☼	80	46 - 120	14	29
Nitrobenzene	3600	U	1410	1160	J	ug/Kg	☼	83	49 - 120	13	24
N-Nitrosodi-n-propylamine	3600	U	1410	1430	J	ug/Kg	☼	101	46 - 120	6	31
N-Nitrosodiphenylamine	3600	U	1410	3600	U	ug/Kg	☼	NC	20 - 128	NC	15
Pentachlorophenol	7000	U	2810	7000	U	ug/Kg	☼	NC	10 - 136	NC	35
Phenanthrene	630	J F1	1410	2210	J	ug/Kg	☼	112	60 - 122	11	15
Phenol	3600	U	1410	1140	J	ug/Kg	☼	81	50 - 120	6	35
Pyrene	890	J F1	1410	2860	J F1	ug/Kg	☼	140	61 - 133	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*107*		*26 - 143*
2-Fluorobiphenyl (Surr)	*81*		*50 - 121*
2-Fluorophenol (Surr)	*55*		*36 - 120*

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

Lab Sample ID: 480-224894-1 MSD
Matrix: Solid
Analysis Batch: 730417

Client Sample ID: BH-2 (2-4')
Prep Type: Total/NA
Prep Batch: 730353

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*90*		*40 - 121*
Phenol-d5 (Surr)	*76*		*41 - 120*
p-Terphenyl-d14 (Surr)	*89*		*46 - 143*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-730372/1-A
Matrix: Solid
Analysis Batch: 730567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.7	U	1.7	0.32	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
4,4'-DDE	1.7	U	1.7	0.35	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
4,4'-DDT	1.7	U	1.7	0.39	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
Aldrin	1.7	U	1.7	0.41	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
alpha-BHC	0.365	J	1.7	0.30	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
beta-BHC	1.7	U	1.7	0.30	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
Chlordane (.alpha.)	1.7	U	1.7	0.83	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
delta-BHC	0.475	J	1.7	0.31	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
Dieldrin	1.7	U	1.7	0.40	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
Endosulfan I	1.7	U	1.7	0.32	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
Endosulfan II	1.7	U	1.7	0.30	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
Endosulfan sulfate	1.7	U	1.7	0.31	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
Endrin	1.7	U	1.7	0.33	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
Heptachlor	1.7	U	1.7	0.36	ug/Kg		10/30/24 07:05	10/31/24 09:23	1
Lindane	0.389	J	1.7	0.31	ug/Kg		10/30/24 07:05	10/31/24 09:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*10/30/24 07:05*	*10/31/24 09:23*	*1*
DCB Decachlorobiphenyl	*73*		*45 - 120*	*10/30/24 07:05*	*10/31/24 09:23*	*1*
Tetrachloro-m-xylene	*63*		*30 - 124*	*10/30/24 07:05*	*10/31/24 09:23*	*1*
Tetrachloro-m-xylene	*58*		*30 - 124*	*10/30/24 07:05*	*10/31/24 09:23*	*1*

Lab Sample ID: LCS 480-730372/2-A
Matrix: Solid
Analysis Batch: 730567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	13.3		ug/Kg		80	56 - 120
4,4'-DDE	16.7	10.7		ug/Kg		64	44 - 120
4,4'-DDT	16.7	12.7		ug/Kg		76	38 - 120
Aldrin	16.7	11.6		ug/Kg		70	38 - 120
alpha-BHC	16.7	10.5		ug/Kg		63	39 - 120
beta-BHC	16.7	11.9		ug/Kg		71	40 - 120
Chlordane (.alpha.)	16.7	10.4		ug/Kg		63	47 - 120
delta-BHC	16.7	12.0		ug/Kg		72	45 - 120
Dieldrin	16.7	12.6		ug/Kg		76	58 - 120
Endosulfan I	16.7	11.9		ug/Kg		71	49 - 120

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

Lab Sample ID: LCS 480-730372/2-A
Matrix: Solid
Analysis Batch: 730567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730372

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endosulfan II			16.7	14.0		ug/Kg		84	55 - 120		
Endosulfan sulfate			16.7	10.4		ug/Kg		62	49 - 124		
Endrin			16.7	14.0		ug/Kg		84	58 - 120		
Heptachlor			16.7	12.5		ug/Kg		75	50 - 120		
Lindane			16.7	11.7		ug/Kg		70	50 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*84*		*45 - 120*
DCB Decachlorobiphenyl	*78*		*45 - 120*
Tetrachloro-m-xylene	*66*		*30 - 124*
Tetrachloro-m-xylene	*59*		*30 - 124*

Lab Sample ID: 480-224894-1 MS
Matrix: Solid
Analysis Batch: 730567

Client Sample ID: BH-2 (2-4')
Prep Type: Total/NA
Prep Batch: 730372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD	36	U	17.5	18.7	J	ug/Kg	☼	107	37 - 126		
4,4'-DDE	36	U	17.5	14.1	J	ug/Kg	☼	81	34 - 120		
4,4'-DDT	36	U	17.5	15.9	J	ug/Kg	☼	91	43 - 123		
Aldrin	36	U	17.5	15.9	J	ug/Kg	☼	91	37 - 125		
alpha-BHC	7.8	J B	17.5	22.4	J	ug/Kg	☼	84	39 - 120		
beta-BHC	36	U	17.5	17.7	J	ug/Kg	☼	101	36 - 120		
Chlordane (.alpha.)	36	U F1	17.5	35	U F1	ug/Kg	☼	0	35 - 120		
delta-BHC	36	U F1	17.5	19.9	J	ug/Kg	☼	114	34 - 120		
Dieldrin	36	U F2	17.5	14.5	J	ug/Kg	☼	83	45 - 120		
Endosulfan I	36	U F2	17.5	10.8	J	ug/Kg	☼	62	39 - 120		
Endosulfan II	36	U	17.5	17.0	J	ug/Kg	☼	97	34 - 126		
Endosulfan sulfate	36	U	17.5	12.6	J	ug/Kg	☼	72	27 - 130		
Endrin	36	U	17.5	15.3	J	ug/Kg	☼	88	47 - 121		
Heptachlor	36	U	17.5	16.1	J	ug/Kg	☼	92	42 - 120		
Lindane	36	U F1	17.5	21.9	J F1	ug/Kg	☼	125	50 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*112*		*45 - 120*
DCB Decachlorobiphenyl	*200*	*S1+*	*45 - 120*
Tetrachloro-m-xylene	*155*	*S1+*	*30 - 124*
Tetrachloro-m-xylene	*202*	*S1+*	*30 - 124*

Lab Sample ID: 480-224894-1 MSD
Matrix: Solid
Analysis Batch: 730567

Client Sample ID: BH-2 (2-4')
Prep Type: Total/NA
Prep Batch: 730372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	36	U	17.4	18.5	J	ug/Kg	☼	106	37 - 126	1	21
4,4'-DDE	36	U	17.4	16.0	J	ug/Kg	☼	92	34 - 120	12	18
4,4'-DDT	36	U	17.4	15.8	J	ug/Kg	☼	91	43 - 123	1	25
Aldrin	36	U	17.4	16.6	J	ug/Kg	☼	95	37 - 125	5	12

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

Lab Sample ID: 480-224894-1 MSD
Matrix: Solid
Analysis Batch: 730567

Client Sample ID: BH-2 (2-4')
Prep Type: Total/NA
Prep Batch: 730372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
alpha-BHC	7.8	J B	17.4	23.4	J	ug/Kg	☼	90	39 - 120	4	15
beta-BHC	36	U	17.4	15.8	J	ug/Kg	☼	91	36 - 120	11	19
Chlordane (.alpha.)	36	U F1	17.4	17.7	J	ug/Kg	☼	101	35 - 120	NC	23
delta-BHC	36	U F1	17.4	21.5	J F1	ug/Kg	☼	123	34 - 120	8	14
Dieldrin	36	U F2	17.4	18.5	J F2	ug/Kg	☼	106	45 - 120	24	12
Endosulfan I	36	U F2	17.4	14.3	J F2	ug/Kg	☼	82	39 - 120	27	18
Endosulfan II	36	U	17.4	15.4	J	ug/Kg	☼	88	34 - 126	10	26
Endosulfan sulfate	36	U	17.4	12.8	J	ug/Kg	☼	73	27 - 130	1	35
Endrin	36	U	17.4	14.6	J	ug/Kg	☼	84	47 - 121	4	20
Heptachlor	36	U	17.4	19.3	J	ug/Kg	☼	111	42 - 120	18	22
Lindane	36	U F1	17.4	20.2	J	ug/Kg	☼	116	50 - 120	8	12

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*149*	*S1+*	*45 - 120*
DCB Decachlorobiphenyl	*136*	*S1+*	*45 - 120*
Tetrachloro-m-xylene	*156*	*S1+*	*30 - 124*
Tetrachloro-m-xylene	*199*	*S1+*	*30 - 124*

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

Lab Sample ID: MB 480-730360/1-A
Matrix: Solid
Analysis Batch: 730459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.25	U	0.25	0.049	mg/Kg		10/29/24 18:14	10/30/24 14:27	1
PCB-1221	0.25	U	0.25	0.049	mg/Kg		10/29/24 18:14	10/30/24 14:27	1
PCB-1232	0.25	U	0.25	0.049	mg/Kg		10/29/24 18:14	10/30/24 14:27	1
PCB-1242	0.25	U	0.25	0.049	mg/Kg		10/29/24 18:14	10/30/24 14:27	1
PCB-1248	0.25	U	0.25	0.049	mg/Kg		10/29/24 18:14	10/30/24 14:27	1
PCB-1254	0.25	U	0.25	0.12	mg/Kg		10/29/24 18:14	10/30/24 14:27	1
PCB-1260	0.25	U	0.25	0.12	mg/Kg		10/29/24 18:14	10/30/24 14:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*137*		*60 - 154*	*10/29/24 18:14*	*10/30/24 14:27*	*1*
Tetrachloro-m-xylene	*108*		*60 - 154*	*10/29/24 18:14*	*10/30/24 14:27*	*1*
DCB Decachlorobiphenyl	*130*		*65 - 174*	*10/29/24 18:14*	*10/30/24 14:27*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*10/29/24 18:14*	*10/30/24 14:27*	*1*

Lab Sample ID: LCS 480-730360/2-A
Matrix: Solid
Analysis Batch: 730459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.50	3.39		mg/Kg		135	51 - 185
PCB-1260	2.50	3.45		mg/Kg		138	61 - 184

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

Lab Sample ID: LCS 480-730360/2-A
Matrix: Solid
Analysis Batch: 730459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730360

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*151*		*60 - 154*
Tetrachloro-m-xylene	*114*		*60 - 154*
DCB Decachlorobiphenyl	*148*		*65 - 174*
DCB Decachlorobiphenyl	*122*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-730561/1-A
Matrix: Solid
Analysis Batch: 730835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.0	ug/Kg		10/30/24 17:37	11/01/24 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*79*		*28 - 129*	*10/30/24 17:37*	*11/01/24 13:08*	*1*
2,4-Dichlorophenylacetic acid	*81*		*28 - 129*	*10/30/24 17:37*	*11/01/24 13:08*	*1*

Lab Sample ID: LCS 480-730561/2-A
Matrix: Solid
Analysis Batch: 730835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-TP (Silvex)	66.7	51.9		ug/Kg		78	39 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-633477/1-A
Matrix: Solid
Analysis Batch: 633666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.80	U	0.80	0.20	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.10	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-633477/1-A
Matrix: Solid
Analysis Batch: 633666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.0	U	2.0	0.50	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0	U	2.0	0.50	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	0.80	0.20	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	0.80	0.20	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.10	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.10	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.80	U	0.80	0.20	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.80	U	0.80	0.20	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.10	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	1.0	0.25	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 08:56	11/02/24 23:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.10	ug/Kg		11/01/24 08:56	11/02/24 23:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96.2*		*20 - 150*	*11/01/24 08:56*	*11/02/24 23:51*	*1*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-633477/1-A
Matrix: Solid
Analysis Batch: 633666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633477

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	82.6		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C5 PFHxA	82.8		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C4 PFHpA	87.7		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C8 PFOA	90.0		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C9 PFNA	89.0		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C6 PFDA	89.5		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C7 PFUnA	83.2		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C2 PFTeDA	71.6		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C3 PFBS	92.0		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C3 PFHxS	89.6		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C8 PFOS	84.4		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C8 PFOSA	71.8		20 - 150	11/01/24 08:56	11/02/24 23:51	1
d3-NMeFOSAA	80.3		20 - 150	11/01/24 08:56	11/02/24 23:51	1
d5-NEtFOSAA	96.0		20 - 150	11/01/24 08:56	11/02/24 23:51	1
M2-4:2 FTS	98.0		20 - 150	11/01/24 08:56	11/02/24 23:51	1
M2-6:2 FTS	94.9		20 - 150	11/01/24 08:56	11/02/24 23:51	1
M2-8:2 FTS	92.2		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C3 HFPO-DA	89.9		20 - 150	11/01/24 08:56	11/02/24 23:51	1
d7-N-MeFOSE-M	71.7		20 - 150	11/01/24 08:56	11/02/24 23:51	1
d9-N-EtFOSE-M	68.3		20 - 150	11/01/24 08:56	11/02/24 23:51	1
d5-NEtPFOSA	55.6		20 - 150	11/01/24 08:56	11/02/24 23:51	1
D3-NMeFOSA	60.7		20 - 150	11/01/24 08:56	11/02/24 23:51	1
13C2-PFDoDA	80.8		20 - 150	11/01/24 08:56	11/02/24 23:51	1

Lab Sample ID: LCS 240-633477/3-A
Matrix: Solid
Analysis Batch: 633666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	10.0	10.8		ug/Kg		108	40 - 150
Perfluoropentanoic acid (PFPeA)	5.00	5.62		ug/Kg		112	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.82		ug/Kg		113	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.67		ug/Kg		107	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.65		ug/Kg		106	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.63		ug/Kg		105	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	2.83		ug/Kg		113	40 - 150
Perfluoroundecanoic acid (PFUnA)	2.50	2.61		ug/Kg		104	40 - 150
Perfluorododecanoic acid (PFDoA)	2.50	2.62		ug/Kg		105	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.75		ug/Kg		110	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.68		ug/Kg		107	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.21	2.42		ug/Kg		110	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.64		ug/Kg		112	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.45		ug/Kg		108	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-633477/3-A
Matrix: Solid
Analysis Batch: 633666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	2.38	2.58		ug/Kg		109	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.32	2.72		ug/Kg		117	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	2.67		ug/Kg		111	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	2.05		ug/Kg		85	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	9.59		ug/Kg		103	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	9.87		ug/Kg		104	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	10.2		ug/Kg		106	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.68		ug/Kg		107	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.70		ug/Kg		108	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.76		ug/Kg		111	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.76		ug/Kg		110	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.54		ug/Kg		102	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	26.9		ug/Kg		107	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	26.1		ug/Kg		105	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	10.8		ug/Kg		108	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	10.1		ug/Kg		107	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.00	5.69		ug/Kg		114	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.00	4.73		ug/Kg		95	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.32	9.60		ug/Kg		103	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	9.42	8.53		ug/Kg		91	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.45	4.78		ug/Kg		107	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	12.5	12.2		ug/Kg		97	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	62.5	60.8		ug/Kg		97	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	62.5	54.2		ug/Kg		87	40 - 150
Perfluorodecanesulfonic acid (PFDS)	2.41	2.56		ug/Kg		106	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.00	5.18		ug/Kg		104	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	107		20 - 150
13C5 PFPeA	90.3		20 - 150
13C5 PFHxA	97.8		20 - 150
13C4 PFHpA	101		20 - 150
13C8 PFOA	100		20 - 150
13C9 PFNA	104		20 - 150
13C6 PFDA	96.9		20 - 150
13C7 PFUnA	96.9		20 - 150
13C2 PFTeDA	78.8		20 - 150
13C3 PFBS	104		20 - 150
13C3 PFHxS	97.1		20 - 150
13C8 PFOS	94.5		20 - 150
13C8 PFOSA	82.0		20 - 150
d3-NMeFOSAA	88.8		20 - 150
d5-NEtFOSAA	104		20 - 150
M2-4:2 FTS	116		20 - 150
M2-6:2 FTS	113		20 - 150
M2-8:2 FTS	112		20 - 150
13C3 HFPO-DA	101		20 - 150
d7-N-MeFOSE-M	82.0		20 - 150
d9-N-EtFOSE-M	79.6		20 - 150
d5-NEtPFOSA	63.1		20 - 150
D3-NMeFOSA	67.4		20 - 150
13C2-PFDoDA	90.7		20 - 150

Lab Sample ID: LLCS 240-633477/2-A
Matrix: Solid
Analysis Batch: 633666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633477

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	0.909		ug/Kg		114	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.457		ug/Kg		114	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.232		ug/Kg		116	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.216		ug/Kg		108	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.224		ug/Kg		112	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.223		ug/Kg		112	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.235		ug/Kg		117	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.200	0.224		ug/Kg		112	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.224		ug/Kg		112	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.258		ug/Kg		129	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.220		ug/Kg		110	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.204		ug/Kg		115	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.203		ug/Kg		108	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.196	J	ug/Kg		108	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.216		ug/Kg		114	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-633477/2-A
Matrix: Solid
Analysis Batch: 633666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633477

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	0.186	0.231		ug/Kg		125	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.192	0.218		ug/Kg		113	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.156	J	ug/Kg		81	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.773	J	ug/Kg		103	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.882		ug/Kg		116	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.875		ug/Kg		114	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.236		ug/Kg		118	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.254		ug/Kg		127	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.231		ug/Kg		116	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.218		ug/Kg		109	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.209		ug/Kg		104	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.51		ug/Kg		126	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	2.29		ug/Kg		114	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	0.870		ug/Kg		109	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.851		ug/Kg		113	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.400	0.473		ug/Kg		118	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.400	0.398	J	ug/Kg		99	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.746	0.835		ug/Kg		112	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.754	0.745	J	ug/Kg		99	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.356	0.386	J	ug/Kg		108	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.00	0.939	J	ug/Kg		94	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.00	4.63	J	ug/Kg		93	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.00	4.42	J	ug/Kg		88	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.193	0.205		ug/Kg		106	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.400	0.421		ug/Kg		105	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*98.6*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-633477/2-A
Matrix: Solid
Analysis Batch: 633666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633477

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C5 PFPeA	85.5		20 - 150
13C5 PFHxA	92.6		20 - 150
13C4 PFHpA	94.5		20 - 150
13C8 PFOA	90.8		20 - 150
13C9 PFNA	93.8		20 - 150
13C6 PFDA	85.7		20 - 150
13C7 PFUnA	84.9		20 - 150
13C2 PFTeDA	70.4		20 - 150
13C3 PFBS	92.2		20 - 150
13C3 PFHxS	90.5		20 - 150
13C8 PFOS	83.5		20 - 150
13C8 PFOSA	72.5		20 - 150
d3-NMeFOSAA	79.9		20 - 150
d5-NEtFOSAA	87.3		20 - 150
M2-4:2 FTS	103		20 - 150
M2-6:2 FTS	95.3		20 - 150
M2-8:2 FTS	89.6		20 - 150
13C3 HFPO-DA	93.3		20 - 150
d7-N-MeFOSE-M	72.2		20 - 150
d9-N-EtFOSE-M	70.4		20 - 150
d5-NEtPFOSA	56.1		20 - 150
D3-NMeFOSA	58.4		20 - 150
13C2-PFDoDA	83.2		20 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-730281/1-A
Matrix: Solid
Analysis Batch: 730572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10.1	U	10.1	8.7	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Antimony	15.2	U	15.2	0.54	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Arsenic	2.0	U	2.0	0.89	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Barium	0.51	U	0.51	0.14	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Beryllium	0.20	U	0.20	0.041	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Cadmium	0.20	U	0.20	0.071	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Calcium	50.7	U	50.7	27.4	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Chromium	0.51	U	0.51	0.37	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Cobalt	0.51	U	0.51	0.10	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Copper	1.0	U	1.0	0.58	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Iron	10.1	U ^5-	10.1	8.6	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Lead	1.0	U	1.0	0.47	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Magnesium	20.3	U	20.3	8.6	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Manganese	1.0	U	1.0	0.28	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Nickel	5.1	U	5.1	0.25	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Potassium	30.4	U	30.4	24.6	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Selenium	4.1	U	4.1	0.81	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Silver	0.61	U	0.61	0.20	mg/Kg		10/29/24 14:46	10/30/24 17:08	1

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

Lab Sample ID: MB 480-730281/1-A
Matrix: Solid
Analysis Batch: 730572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	142	U	142	62.2	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Thallium	6.1	U	6.1	0.77	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Vanadium	0.51	U	0.51	0.13	mg/Kg		10/29/24 14:46	10/30/24 17:08	1
Zinc	2.0	U	2.0	1.0	mg/Kg		10/29/24 14:46	10/30/24 17:08	1

Lab Sample ID: LCSSRM 480-730281/2-A
Matrix: Solid
Analysis Batch: 730857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730281

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6780	6442		mg/Kg		95.0	47.8 - 151.9
Antimony	127	82.15		mg/Kg		64.7	20.2 - 250.4
Arsenic	311	240.1		mg/Kg		77.2	70.1 - 130.2
Barium	304	267.1		mg/Kg		87.9	75.0 - 125.0
Beryllium	169	143.4		mg/Kg		84.8	75.1 - 124.9
Cadmium	212	175.0		mg/Kg		82.6	75.0 - 125.0
Calcium	5170	4219		mg/Kg		81.6	72.9 - 126.9
Chromium	180	152.5		mg/Kg		84.7	70.0 - 130.0
Cobalt	81.6	73.82		mg/Kg		90.5	75.0 - 125.0
Copper	205	167.4		mg/Kg		81.6	75.1 - 124.9
Iron	6510	5741		mg/Kg		88.2	11.3 - 202.8
Lead	92.8	82.76		mg/Kg		89.2	81.8 - 118.5
Magnesium	1700	1405		mg/Kg		82.6	55.6 - 144.1
Manganese	531	443.3		mg/Kg		83.5	77.2 - 122.8
Nickel	313	291.6		mg/Kg		93.2	70.0 - 130.0
Potassium	1370	1235		mg/Kg		90.1	52.0 - 148.2
Selenium	165	118.2		mg/Kg		71.6	67.9 - 132.1
Silver	82.4	63.22		mg/Kg		76.7	71.0 - 128.6
Sodium	486	411.7		mg/Kg		84.7	59.5 - 140.5
Thallium	205	186.8		mg/Kg		91.1	72.2 - 128.3
Vanadium	103	89.22		mg/Kg		86.6	68.0 - 132.0
Zinc	166	137.6		mg/Kg		82.9	70.5 - 130.1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-730595/1-A
Matrix: Solid
Analysis Batch: 730681

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0046	mg/Kg		10/31/24 09:44	10/31/24 13:05	1

Lab Sample ID: LCSSRM 480-730595/2-A ^10
Matrix: Solid
Analysis Batch: 730681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730595

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	11.9	10.39		mg/Kg		87.3	59.8 - 139.5

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-1005289/1-A
Matrix: Solid
Analysis Batch: 1005298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1005289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		11/05/24 08:15	11/05/24 10:10	1

Lab Sample ID: LCSI 460-1005289/3-A
Matrix: Solid
Analysis Batch: 1005298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1005289

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	731.6		mg/Kg		103	80 - 120

Lab Sample ID: LCSSRM 460-1005289/2-A
Matrix: Solid
Analysis Batch: 1005298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1005289

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	14.9	14.20		mg/Kg		95.1	84.2 - 114.5

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-730702/1-A
Matrix: Solid
Analysis Batch: 730810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.95	U	0.95	0.46	mg/Kg		10/31/24 14:10	10/31/24 18:10	1

Lab Sample ID: LCS 480-730702/3-A
Matrix: Solid
Analysis Batch: 730810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.418		mg/Kg		105	29 - 122

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-730702/4-A
Matrix: Solid
Analysis Batch: 730810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.257		mg/Kg		103	29 - 122

Lab Sample ID: LCSSRM 480-730702/2-A
Matrix: Solid
Analysis Batch: 730810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730702

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	85.63		mg/Kg		57.1	38.9 - 138.7

GC/MS VOA

Prep Batch: 730356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	5035A_L	
480-224894-2	BH-4 (2-4')	Total/NA	Solid	5035A_L	
480-224894-3	BH-7 (2-4')	Total/NA	Solid	5035A_L	
MB 480-730356/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-730356/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 730358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	8260C	730356
480-224894-2	BH-4 (2-4')	Total/NA	Solid	8260C	730356
480-224894-3	BH-7 (2-4')	Total/NA	Solid	8260C	730356
MB 480-730356/2-A	Method Blank	Total/NA	Solid	8260C	730356
LCS 480-730356/1-A	Lab Control Sample	Total/NA	Solid	8260C	730356

GC/MS Semi VOA

Prep Batch: 730353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	3550C	
480-224894-2	BH-4 (2-4')	Total/NA	Solid	3550C	
480-224894-3	BH-7 (2-4')	Total/NA	Solid	3550C	
MB 480-730353/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-730353/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-224894-1 MS	BH-2 (2-4')	Total/NA	Solid	3550C	
480-224894-1 MSD	BH-2 (2-4')	Total/NA	Solid	3550C	

Analysis Batch: 730417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	8270D	730353
480-224894-2	BH-4 (2-4')	Total/NA	Solid	8270D	730353
480-224894-3	BH-7 (2-4')	Total/NA	Solid	8270D	730353
MB 480-730353/1-A	Method Blank	Total/NA	Solid	8270D	730353
LCS 480-730353/2-A	Lab Control Sample	Total/NA	Solid	8270D	730353
480-224894-1 MS	BH-2 (2-4')	Total/NA	Solid	8270D	730353
480-224894-1 MSD	BH-2 (2-4')	Total/NA	Solid	8270D	730353

GC Semi VOA

Prep Batch: 730360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	3550C	
480-224894-2	BH-4 (2-4')	Total/NA	Solid	3550C	
480-224894-3	BH-7 (2-4')	Total/NA	Solid	3550C	
MB 480-730360/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-730360/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 730372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	3550C	
480-224894-2	BH-4 (2-4')	Total/NA	Solid	3550C	
480-224894-3	BH-7 (2-4')	Total/NA	Solid	3550C	
MB 480-730372/1-A	Method Blank	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 730372 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-730372/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-224894-1 MS	BH-2 (2-4')	Total/NA	Solid	3550C	
480-224894-1 MSD	BH-2 (2-4')	Total/NA	Solid	3550C	

Analysis Batch: 730459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-730360/1-A	Method Blank	Total/NA	Solid	8082A	730360
LCS 480-730360/2-A	Lab Control Sample	Total/NA	Solid	8082A	730360

Prep Batch: 730561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	8151A	
480-224894-2	BH-4 (2-4')	Total/NA	Solid	8151A	
480-224894-3	BH-7 (2-4')	Total/NA	Solid	8151A	
MB 480-730561/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-730561/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Analysis Batch: 730567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	8081B	730372
480-224894-2	BH-4 (2-4')	Total/NA	Solid	8081B	730372
480-224894-3	BH-7 (2-4')	Total/NA	Solid	8081B	730372
MB 480-730372/1-A	Method Blank	Total/NA	Solid	8081B	730372
LCS 480-730372/2-A	Lab Control Sample	Total/NA	Solid	8081B	730372
480-224894-1 MS	BH-2 (2-4')	Total/NA	Solid	8081B	730372
480-224894-1 MSD	BH-2 (2-4')	Total/NA	Solid	8081B	730372

Analysis Batch: 730642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	8082A	730360
480-224894-2	BH-4 (2-4')	Total/NA	Solid	8082A	730360
480-224894-3	BH-7 (2-4')	Total/NA	Solid	8082A	730360

Analysis Batch: 730835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	8151A	730561
480-224894-2	BH-4 (2-4')	Total/NA	Solid	8151A	730561
480-224894-3	BH-7 (2-4')	Total/NA	Solid	8151A	730561
MB 480-730561/1-A	Method Blank	Total/NA	Solid	8151A	730561
LCS 480-730561/2-A	Lab Control Sample	Total/NA	Solid	8151A	730561

LCMS

Prep Batch: 633477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	1633 Shake	
480-224894-2	BH-4 (2-4')	Total/NA	Solid	1633 Shake	
480-224894-3	BH-7 (2-4')	Total/NA	Solid	1633 Shake	
MB 240-633477/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-633477/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-633477/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

LCMS

Analysis Batch: 633666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	Draft-3 1633	633477
480-224894-2	BH-4 (2-4')	Total/NA	Solid	Draft-3 1633	633477
480-224894-3	BH-7 (2-4')	Total/NA	Solid	Draft-3 1633	633477
MB 240-633477/1-A	Method Blank	Total/NA	Solid	Draft-3 1633	633477
LCS 240-633477/3-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	633477
LLCS 240-633477/2-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	633477

Metals

Prep Batch: 730281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	3050B	
480-224894-2	BH-4 (2-4')	Total/NA	Solid	3050B	
480-224894-3	BH-7 (2-4')	Total/NA	Solid	3050B	
MB 480-730281/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-730281/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 730572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	6010C	730281
480-224894-2	BH-4 (2-4')	Total/NA	Solid	6010C	730281
480-224894-3	BH-7 (2-4')	Total/NA	Solid	6010C	730281
MB 480-730281/1-A	Method Blank	Total/NA	Solid	6010C	730281

Prep Batch: 730595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	7471B	
480-224894-2	BH-4 (2-4')	Total/NA	Solid	7471B	
480-224894-3	BH-7 (2-4')	Total/NA	Solid	7471B	
MB 480-730595/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-730595/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 730681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	7471B	730595
480-224894-2	BH-4 (2-4')	Total/NA	Solid	7471B	730595
480-224894-3	BH-7 (2-4')	Total/NA	Solid	7471B	730595
MB 480-730595/1-A	Method Blank	Total/NA	Solid	7471B	730595
LCSSRM 480-730595/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	730595

Analysis Batch: 730774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	6010C	730281
480-224894-3	BH-7 (2-4')	Total/NA	Solid	6010C	730281

Analysis Batch: 730857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 480-730281/2-A	Lab Control Sample	Total/NA	Solid	6010C	730281

General Chemistry

Analysis Batch: 730271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	Moisture	
480-224894-2	BH-4 (2-4')	Total/NA	Solid	Moisture	
480-224894-3	BH-7 (2-4')	Total/NA	Solid	Moisture	

Prep Batch: 730702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	9012B	
480-224894-2	BH-4 (2-4')	Total/NA	Solid	9012B	
480-224894-3	BH-7 (2-4')	Total/NA	Solid	9012B	
MB 480-730702/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-730702/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-730702/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-730702/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 730810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	9012B	730702
480-224894-2	BH-4 (2-4')	Total/NA	Solid	9012B	730702
480-224894-3	BH-7 (2-4')	Total/NA	Solid	9012B	730702
MB 480-730702/1-A	Method Blank	Total/NA	Solid	9012B	730702
LCS 480-730702/3-A	Lab Control Sample	Total/NA	Solid	9012B	730702
LCS 480-730702/4-A	Lab Control Sample	Total/NA	Solid	9012B	730702
LCSSRM 480-730702/2-A	Lab Control Sample	Total/NA	Solid	9012B	730702

Prep Batch: 1005289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	3060A	
480-224894-2	BH-4 (2-4')	Total/NA	Solid	3060A	
480-224894-3	BH-7 (2-4')	Total/NA	Solid	3060A	
MB 460-1005289/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-1005289/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-1005289/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 1005298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224894-1	BH-2 (2-4')	Total/NA	Solid	7196A	1005289
480-224894-2	BH-4 (2-4')	Total/NA	Solid	7196A	1005289
480-224894-3	BH-7 (2-4')	Total/NA	Solid	7196A	1005289
MB 460-1005289/1-A	Method Blank	Total/NA	Solid	7196A	1005289
LCSI 460-1005289/3-A	Lab Control Sample	Total/NA	Solid	7196A	1005289
LCSSRM 460-1005289/2-A	Lab Control Sample	Total/NA	Solid	7196A	1005289

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

Client Sample ID: BH-2 (2-4')
Lab Sample ID: 480-224894-1
Date Collected: 10/28/24 10:30
Matrix: Solid
Date Received: 10/28/24 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730271	VXF	EET BUF	10/29/24 12:44

Client Sample ID: BH-2 (2-4')
Lab Sample ID: 480-224894-1
Date Collected: 10/28/24 10:30
Matrix: Solid
Date Received: 10/28/24 16:38
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730356	CDC	EET BUF	10/29/24 18:07
Total/NA	Analysis	8260C		1	730358	CDC	EET BUF	10/30/24 02:06
Total/NA	Prep	3550C			730353	SJM	EET BUF	10/29/24 17:50
Total/NA	Analysis	8270D		20	730417	JMM	EET BUF	10/30/24 15:40
Total/NA	Prep	3550C			730372	DP	EET BUF	10/30/24 07:05
Total/NA	Analysis	8081B		20	730567	MAN	EET BUF	10/31/24 10:41
Total/NA	Prep	3550C			730360	SJM	EET BUF	10/29/24 18:14
Total/NA	Analysis	8082A		1	730642	W1T	EET BUF	10/31/24 14:15
Total/NA	Prep	8151A			730561	SJM	EET BUF	10/30/24 17:37
Total/NA	Analysis	8151A		1	730835	MAN	EET BUF	11/01/24 15:37
Total/NA	Prep	1633 Shake			633477	JVB4	EET CLE	11/01/24 08:56
Total/NA	Analysis	Draft-3 1633		1	633666	DSH	EET CLE	11/03/24 02:10
Total/NA	Prep	3050B			730281	ET	EET BUF	10/29/24 14:46
Total/NA	Analysis	6010C		1	730572	BMB	EET BUF	10/30/24 17:30
Total/NA	Prep	3050B			730281	ET	EET BUF	10/29/24 14:46
Total/NA	Analysis	6010C		5	730774	BMB	EET BUF	10/31/24 17:38
Total/NA	Prep	7471B			730595	ESB	EET BUF	10/31/24 09:44
Total/NA	Analysis	7471B		1	730681	ESB	EET BUF	10/31/24 13:19
Total/NA	Prep	3060A			1005289	MNP	EET EDI	11/05/24 08:15 - 11/05/24 09:15 [1]
Total/NA	Analysis	7196A		1	1005298	MNP	EET EDI	11/05/24 13:05
Total/NA	Prep	9012B			730702	AM	EET BUF	10/31/24 14:10
Total/NA	Analysis	9012B		1	730810	AM	EET BUF	10/31/24 18:18

Client Sample ID: BH-4 (2-4')
Lab Sample ID: 480-224894-2
Date Collected: 10/28/24 12:30
Matrix: Solid
Date Received: 10/28/24 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730271	VXF	EET BUF	10/29/24 12:44

Client Sample ID: BH-4 (2-4')
Lab Sample ID: 480-224894-2
Date Collected: 10/28/24 12:30
Matrix: Solid
Date Received: 10/28/24 16:38
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730356	CDC	EET BUF	10/29/24 18:07
Total/NA	Analysis	8260C		1	730358	CDC	EET BUF	10/30/24 02:33

Client Sample ID: BH-4 (2-4')
Lab Sample ID: 480-224894-2

Date Collected: 10/28/24 12:30
Matrix: Solid
Date Received: 10/28/24 16:38
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			730353	SJM	EET BUF	10/29/24 17:50
Total/NA	Analysis	8270D		5	730417	JMM	EET BUF	10/30/24 21:28
Total/NA	Prep	3550C			730372	DP	EET BUF	10/30/24 07:05
Total/NA	Analysis	8081B		20	730567	MAN	EET BUF	10/31/24 11:00
Total/NA	Prep	3550C			730360	SJM	EET BUF	10/29/24 18:14
Total/NA	Analysis	8082A		1	730642	W1T	EET BUF	10/31/24 14:34
Total/NA	Prep	8151A			730561	SJM	EET BUF	10/30/24 17:37
Total/NA	Analysis	8151A		1	730835	MAN	EET BUF	11/01/24 15:55
Total/NA	Prep	1633 Shake			633477	JVB4	EET CLE	11/01/24 08:56
Total/NA	Analysis	Draft-3 1633		1	633666	DSH	EET CLE	11/03/24 02:27
Total/NA	Prep	3050B			730281	ET	EET BUF	10/29/24 14:46
Total/NA	Analysis	6010C		1	730572	BMB	EET BUF	10/30/24 17:31
Total/NA	Prep	7471B			730595	ESB	EET BUF	10/31/24 09:44
Total/NA	Analysis	7471B		1	730681	ESB	EET BUF	10/31/24 13:21
Total/NA	Prep	3060A			1005289	MNP	EET EDI	11/05/24 08:15 - 11/05/24 09:15 [1]
Total/NA	Analysis	7196A		1	1005298	MNP	EET EDI	11/05/24 13:05
Total/NA	Prep	9012B			730702	AM	EET BUF	10/31/24 14:10
Total/NA	Analysis	9012B		1	730810	AM	EET BUF	10/31/24 18:18

Client Sample ID: BH-7 (2-4')
Lab Sample ID: 480-224894-3

Date Collected: 10/28/24 12:00
Matrix: Solid
Date Received: 10/28/24 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730271	VXF	EET BUF	10/29/24 12:44

Client Sample ID: BH-7 (2-4')
Lab Sample ID: 480-224894-3

Date Collected: 10/28/24 12:00
Matrix: Solid
Date Received: 10/28/24 16:38
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730356	CDC	EET BUF	10/29/24 18:07
Total/NA	Analysis	8260C		1	730358	CDC	EET BUF	10/30/24 03:00
Total/NA	Prep	3550C			730353	SJM	EET BUF	10/29/24 17:50
Total/NA	Analysis	8270D		20	730417	JMM	EET BUF	10/30/24 21:53
Total/NA	Prep	3550C			730372	DP	EET BUF	10/30/24 07:05
Total/NA	Analysis	8081B		20	730567	MAN	EET BUF	10/31/24 11:20
Total/NA	Prep	3550C			730360	SJM	EET BUF	10/29/24 18:14
Total/NA	Analysis	8082A		1	730642	W1T	EET BUF	10/31/24 14:52
Total/NA	Prep	8151A			730561	SJM	EET BUF	10/30/24 17:37
Total/NA	Analysis	8151A		1	730835	MAN	EET BUF	11/01/24 16:32
Total/NA	Prep	1633 Shake			633477	JVB4	EET CLE	11/01/24 08:56
Total/NA	Analysis	Draft-3 1633		1	633666	DSH	EET CLE	11/03/24 02:44
Total/NA	Prep	3050B			730281	ET	EET BUF	10/29/24 14:46
Total/NA	Analysis	6010C		1	730572	BMB	EET BUF	10/30/24 17:33

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

Client Sample ID: BH-7 (2-4')
Lab Sample ID: 480-224894-3

Date Collected: 10/28/24 12:00
Matrix: Solid

Date Received: 10/28/24 16:38
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			730281	ET	EET BUF	10/29/24 14:46
Total/NA	Analysis	6010C		5	730774	BMB	EET BUF	10/31/24 17:40
Total/NA	Prep	7471B			730595	ESB	EET BUF	10/31/24 09:44
Total/NA	Analysis	7471B		1	730681	ESB	EET BUF	10/31/24 13:22
Total/NA	Prep	3060A			1005289	MNP	EET EDI	11/05/24 08:15 - 11/05/24 09:15 [1]
Total/NA	Analysis	7196A		1	1005298	MNP	EET EDI	11/05/24 13:05
Total/NA	Prep	9012B			730702	AM	EET BUF	10/31/24 14:10
Total/NA	Analysis	9012B		1	730810	AM	EET BUF	10/31/24 18:19

[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
EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

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
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
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
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	12-31-24

Laboratory: Eurofins Edison

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-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	04-01-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-31-24
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

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
Draft-3 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
7196A	Chromium, Hexavalent	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET EDI
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
9012B	Cyanide, Total and/or Amenable, Distillation	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

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224894-1	BH-2 (2-4')	Solid	10/28/24 10:30	10/28/24 16:38
480-224894-2	BH-4 (2-4')	Solid	10/28/24 12:30	10/28/24 16:38
480-224894-3	BH-7 (2-4')	Solid	10/28/24 12:00	10/28/24 16:38

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Syracuse

Client Information	Sampler: Joseph Gembine	Lab PM: Beninati, John	Carrier Tracking No(s): #225	COC No: 480-199807-41205.2
Client Contact: Jacob Cox	Phone: 716-249-6880	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 2 of 3
Company: Brydges Engineering in Environment & Energy DPC	PWSID:			Job #:
Address: 960 Busti Ave Suite B-150	Due Date Requested:			
City: Buffalo	TAT Requested (days):			
State, Zip: NY, 14213	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: jcox@be3corp.com	WO #:			
Project Name: The Nest Site Analysis - Soil	Project #: 48028073			
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 - TCL VOCs + TICs	6010C, 7471B, 8081B, 8082A, 8151A, 8270D	1633_Final - 1633 Standard List 40	7196A, 9012B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N			
BH-2 (2-4')	10-28-24	10.30	G	Solid			X	X	X	X		Added Hex Chrom + Cyanide
BH-4 (2-4')	10-28-24	12.30	G	Solid			X	X	X	X		
BH-7 (2-4')	10-28-24	2.00	G	Solid			X	X	X	X		
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

480-224894 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)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: Joseph Gembine	Date/Time: 10/28/24 16:38	Company: BE3	Received by: LC	Date/Time: 10/28/24 16:38	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: 3.4 ICE IR# SC

Ver: 05/06/2024

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90114.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-224894-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/11/2024			
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: The Nest Site Analysis Soil	Project #: 48028073			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

PFAS 8430

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:						
BH-2 (2-4') (480-224894-1)	10/28/24	10:30 Eastern	G	Solid			X	1	
BH-4 (2-4') (480-224894-2)	10/28/24	12:30 Eastern	G	Solid			X	1	
BH-7 (2-4') (480-224894-3)	10/28/24	12:00 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]	10/29/24 1500	TAS	MALISSA LOAR	10-30 24 930	
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 – Cleveland Sample Receipt Form/Narrative **Login # :**

Barberton Facility

Client Eur Buffalo Site Name

Cooler Received on 10-30-24 Opened on 10-30-24

Cooler unpacked by: Y. Kou

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # 6C 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 # 17 (CF +0.1 °C) Observed Cooler Temp 2.2 °C Corrected Cooler Temp 2.3 °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# HC339814
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

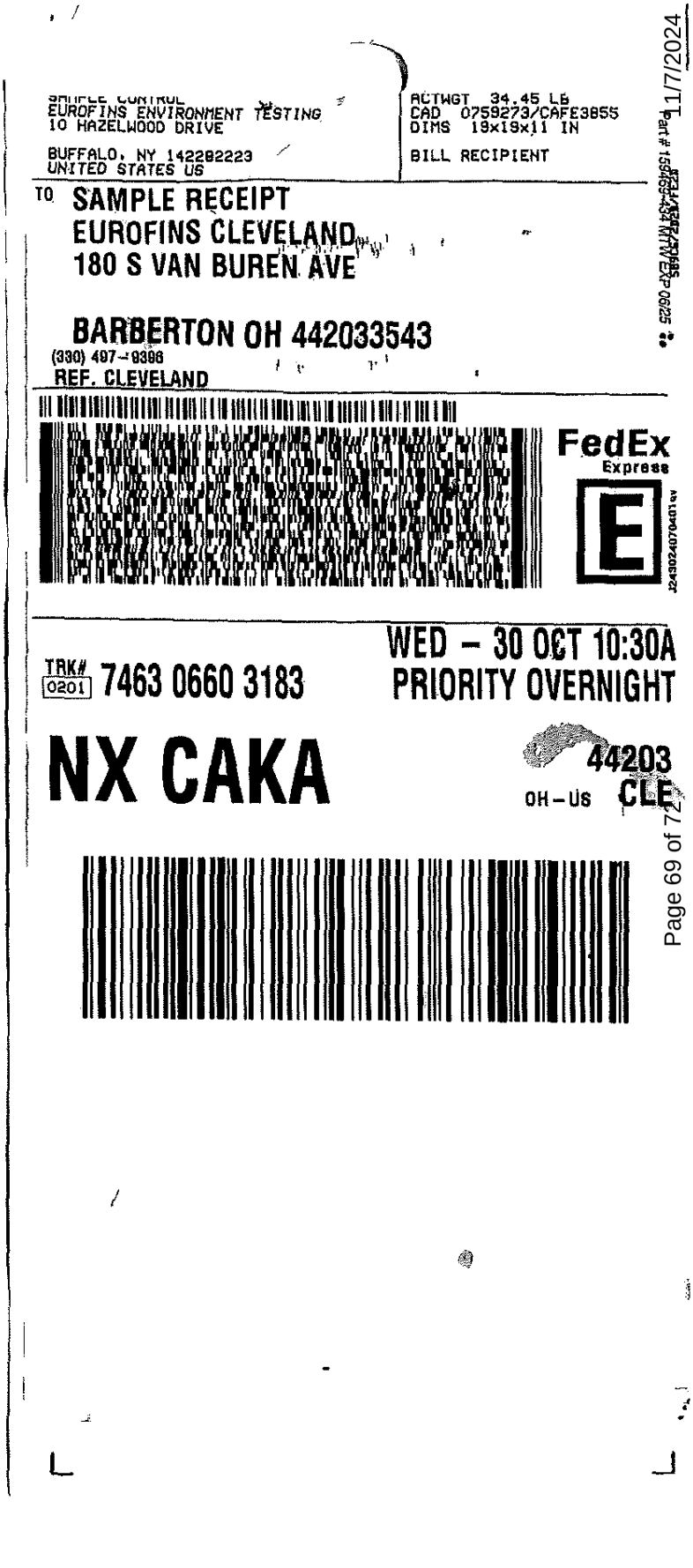
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

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 34.45 LB
CAD 0759273/CAFE3855
DIMS 19x19x11 IN

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF. CLEVELAND

FedEx Express

TRK# 0201 7463 0660 3183

WED - 30 OCT 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

Part # 159469-434 MTW EXP 06/25

11/7/2024

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90117 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-224894-1
Address: 777 New Durham Road,	Due Date Requested: 11/11/2024			
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis Soil	Project #: 48028073			
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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH-2 (2-4') (480-224894-1)	10/28/24	10:30 Eastern	G	Solid			X	1	
BH-4 (2-4') (480-224894-2)	10/28/24	12:30 Eastern	G	Solid			X	1	
BH-7 (2-4') (480-224894-3)	10/28/24	12:00 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: Fedex			
Relinquished by:	Date/Time: 10/29/24 1500	Company TAB	Received by:	Date/Time: 10/30/24 10:50	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

IR 9 1 0-1.2

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224894-1

Login Number: 224894
List Number: 1
Creator: Wallace, Cameron

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	BE3
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224894-1

Login Number: 224894
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins Edison
List Creation: 10/30/24 11:38 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0/1.2°C IR9
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 11/15/2024 11:38:36 AM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-224950-1

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

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11/15/2024 11:38:36 AM

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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.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

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.
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

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.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

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: 480-224950-1 Eurofins Buffalo

Job Narrative
480-224950-1

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 10/30/2024 4:22 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

Receipt Exceptions
COC lists MS for sample 5 and MSD for sample 7. Lab assigned MS/MSD to both sample points pending client/PM resolutuon.

VP-1 (2-4') (480-224950-5), VP-1 (2-4') (480-224950-5[MS]), VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[MSD])

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-731001 recovered above the upper control limit for 4-Methyl-2-pentanone (MIBK). The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-4 QA/QC (2-4') (480-224950-3), VP-2 (2-4') (480-224950-4), VP-1 (2-4') (480-224950-5) and VP-3 Native (8-9') (480-224950-9).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-731000 recovered above the upper control limit for Cyclohexane. The sample(s) associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated sample is impacted: VP-3 (2-4') (480-224950-7).

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: Due to the matrix, the following samples could not be concentrated to the final method required volume: VP-3 (2-4') (480-224950-7), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[MSD]). The reporting limits (RLs) are elevated proportionately.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-1 (2-4') (480-224950-5), VP-1 (2-4') (480-224950-5[MS]), VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[MSD]). 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 sample contained an allowable number of surrogate compounds outside limits: VP-4 QA/QC (2-4') (480-224950-3). These results have been reported and qualified.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-730560 and analytical batch 480-730591 was outside control limits. The following samples were diluted due to the nature of the sample matrix: VP-1 (2-4') (480-224950-5[MS]), VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4')

(480-224950-7[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following samples required a dilution due to the nature of the sample matrix: BH-10 (2-4') (480-224950-1) and VP-1 (2-4') (480-224950-5). 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: The following sample was diluted due to the nature of the sample matrix: VP-3 (2-4') (480-224950-7). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730591 recovered above the upper control limit for 1,4-Dioxane and 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-4 QA/QC (2-4') (480-224950-3), VP-2 (2-4') (480-224950-4), VP-1 (2-4') (480-224950-5), VP-3 (2-4') (480-224950-7) and VP-3 Native (8-9') (480-224950-9).

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: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-4 QA/QC (2-4') (480-224950-3), VP-1 (2-4') (480-224950-5), VP-1 (2-4') (480-224950-5[MS]), VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[MSD]).

Method 8081B: The following samples were diluted due to the nature of the sample matrix: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-4 QA/QC (2-4') (480-224950-3), VP-1 (2-4') (480-224950-5) and VP-3 (2-4') (480-224950-7). 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: VP-1 (2-4') (480-224950-5[MS]), VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[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 method blank for preparation batch 480-730565 and analytical batch 480-730754 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. The following associated samples are impacted: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-4 QA/QC (2-4') (480-224950-3), VP-2 (2-4') (480-224950-4), VP-1 (2-4') (480-224950-5), VP-3 (2-4') (480-224950-7) and VP-3 Native (8-9') (480-224950-9).

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 240-633665 recovered above the upper control limit for Perfluoroheptanesulfonic acid (PFHpS), Perfluorononanesulfonic acid (PFNS) and Perfluorodecanesulfonic acid (PFDS). The samples associated with this CCVL were below the reporting limit for the affected analytes; therefore, the data have been reported.

Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-633665 recovered above the upper control limit for Perfluorooctanesulfonic acid (PFOS). The samples associated with this CCVL were non-detects for the affected analytes; therefore, the data have been reported.

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

Metals

Job ID: 480-224950-1 (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 9012B: The following samples ms/msd recovery is ND due to the samples reporting limit being 1.1.Due to this reanalysis was not performed.

VP-1 (2-4') (480-224950-5) and VP-3 (2-4') (480-224950-7)

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

Client Sample ID: BH-10 (2-4')
Lab Sample ID: 480-224950-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.29	J vs	5.3	0.26	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.55	J B vs	5.3	0.33	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.62	J vs	5.3	0.37	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J vs	5.3	2.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	3.3	J vs	5.3	0.40	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	5.3	J vs	11	0.89	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	1400	J	3700	370	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	1500	J	3700	550	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	1900	J	3700	590	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1200	J	3700	390	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	710	J	3700	480	ug/Kg	20	☼	8270D	Total/NA
Chrysene	1500	J	3700	830	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	3100	J	3700	390	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	980	J	3700	460	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	2300	J	3700	550	ug/Kg	20	☼	8270D	Total/NA
Pyrene	2500	J	3700	440	ug/Kg	20	☼	8270D	Total/NA
4,4'-DDT	12	J B	18	4.2	ug/Kg	10	☼	8081B	Total/NA
alpha-BHC	3.8	J	18	3.2	ug/Kg	10	☼	8081B	Total/NA
delta-BHC	4.6	J	18	3.4	ug/Kg	10	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.16	J	0.18	0.045	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	3670		10.9	9.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.0		2.2	0.96	mg/Kg	1	☼	6010C	Total/NA
Barium	82.3		0.55	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.23		0.22	0.044	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.48		0.22	0.076	mg/Kg	1	☼	6010C	Total/NA
Calcium	103000		273	147	mg/Kg	5	☼	6010C	Total/NA
Chromium	7.5		0.55	0.39	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.7		0.55	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	15.5		1.1	0.62	mg/Kg	1	☼	6010C	Total/NA
Iron	5370		10.9	9.3	mg/Kg	1	☼	6010C	Total/NA
Lead	89.3		1.1	0.50	mg/Kg	1	☼	6010C	Total/NA
Magnesium	41600		21.9	9.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	284		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.2		5.5	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	933		32.8	26.5	mg/Kg	1	☼	6010C	Total/NA
Sodium	250		153	67.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	9.8		0.55	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	148		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.41		0.021	0.0049	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: VP-4 (2-4')
Lab Sample ID: 480-224950-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.9	J vs	27	4.6	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.55	J B vs	5.4	0.33	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.1	J vs	5.4	0.41	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.2	J vs	11	0.91	ug/Kg	1	☼	8260C	Total/NA
Benzo[g,h,i]perylene	190	J	940	99	ug/Kg	5	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	510	J	940	320	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	130	J	940	99	ug/Kg	5	☼	8270D	Total/NA
Pyrene	150	J	940	110	ug/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: VP-4 (2-4') (Continued)
Lab Sample ID: 480-224950-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	8.2	J B	18	4.3	ug/Kg	10	☼	8081B	Total/NA
Perfluorooctanoic acid (PFOA)	0.066	J	0.18	0.045	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.080	J	0.18	0.045	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	5280		11.7	10.1	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.8	J	2.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	30.5		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	0.99		0.23	0.082	mg/Kg	1	☼	6010C	Total/NA
Calcium	111000		293	158	mg/Kg	5	☼	6010C	Total/NA
Chromium	5.5		0.59	0.42	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.2		0.59	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	9.0		1.2	0.67	mg/Kg	1	☼	6010C	Total/NA
Iron	5990		11.7	9.9	mg/Kg	1	☼	6010C	Total/NA
Lead	46.9		1.2	0.54	mg/Kg	1	☼	6010C	Total/NA
Magnesium	66900		117	49.6	mg/Kg	5	☼	6010C	Total/NA
Manganese	696		1.2	0.33	mg/Kg	1	☼	6010C	Total/NA
Nickel	4.9	J	5.9	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	1070		35.1	28.4	mg/Kg	1	☼	6010C	Total/NA
Sodium	197		164	71.7	mg/Kg	1	☼	6010C	Total/NA
Thallium	0.93	J	7.0	0.89	mg/Kg	1	☼	6010C	Total/NA
Vanadium	9.6		0.59	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	395		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.17		0.023	0.0052	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0	J vs	29	4.9	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.58	J B vs	5.9	0.36	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.8	J vs	5.9	2.7	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.9	J vs	5.9	0.44	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.5	J vs	12	0.98	ug/Kg	1	☼	8260C	Total/NA
4,4'-DDT	8.7	J B	19	4.5	ug/Kg	10	☼	8081B	Total/NA
Aluminum	7150		11.2	9.7	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.6		2.2	0.99	mg/Kg	1	☼	6010C	Total/NA
Barium	31.2		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.26		0.22	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.2		0.22	0.079	mg/Kg	1	☼	6010C	Total/NA
Calcium	121000		280	151	mg/Kg	5	☼	6010C	Total/NA
Chromium	7.3		0.56	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.0		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	5.1		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Iron	8250		11.2	9.5	mg/Kg	1	☼	6010C	Total/NA
Lead	33.1		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Magnesium	71500		112	47.6	mg/Kg	5	☼	6010C	Total/NA
Manganese	875		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	5.9		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1110		33.7	27.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	238		157	68.8	mg/Kg	1	☼	6010C	Total/NA
Thallium	0.99	J	6.7	0.85	mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.7		0.56	0.15	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: VP-4 QA/QC (2-4') (Continued)
Lab Sample ID: 480-224950-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	386		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.089		0.024	0.0055	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: VP-2 (2-4')
Lab Sample ID: 480-224950-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.5	J vs	26	4.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.3	J vs	5.2	0.40	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.97	J vs	10	0.88	ug/Kg	1	☼	8260C	Total/NA
4,4'-DDT	0.77	J B	1.8	0.41	ug/Kg	1	☼	8081B	Total/NA
Lindane	0.58	J	1.8	0.32	ug/Kg	1	☼	8081B	Total/NA
Aluminum	1830		10.8	9.3	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.1	J	2.2	0.95	mg/Kg	1	☼	6010C	Total/NA
Barium	7.1		0.54	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.079	J	0.22	0.043	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.49		0.22	0.075	mg/Kg	1	☼	6010C	Total/NA
Calcium	167000		269	145	mg/Kg	5	☼	6010C	Total/NA
Chromium	2.5		0.54	0.39	mg/Kg	1	☼	6010C	Total/NA
Cobalt	0.54		0.54	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	2.6		1.1	0.61	mg/Kg	1	☼	6010C	Total/NA
Iron	2570		10.8	9.1	mg/Kg	1	☼	6010C	Total/NA
Lead	7.2		1.1	0.50	mg/Kg	1	☼	6010C	Total/NA
Magnesium	104000		108	45.7	mg/Kg	5	☼	6010C	Total/NA
Manganese	347		1.1	0.30	mg/Kg	1	☼	6010C	Total/NA
Nickel	1.7	J	5.4	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	580		32.3	26.1	mg/Kg	1	☼	6010C	Total/NA
Sodium	180		151	66.0	mg/Kg	1	☼	6010C	Total/NA
Thallium	0.95	J	6.5	0.82	mg/Kg	1	☼	6010C	Total/NA
Vanadium	3.2		0.54	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	175		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.062		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: VP-1 (2-4')
Lab Sample ID: 480-224950-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.0	J F1 vs	26	4.4	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.51	J B vs	5.3	0.33	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.4	J vs	5.3	2.4	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	3.9	J vs	5.3	0.71	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.0	J vs	5.3	0.40	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.1	J vs	11	0.89	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	1000	J F1 F2	3700	370	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	1100	J F1 F2	3700	550	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	1300	J F1 F2	3700	590	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	720	J F1 F2	3700	390	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	520	J F1 F2	3700	480	ug/Kg	20	☼	8270D	Total/NA
Chrysene	980	J F1 F2	3700	830	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	2300	J F1 F2	3700	390	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	550	J F1 F2	3700	460	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	1300	J F1 F2	3700	550	ug/Kg	20	☼	8270D	Total/NA
Pyrene	1800	J F1 F2	3700	440	ug/Kg	20	☼	8270D	Total/NA
4,4'-DDT	5.8	J B	9.1	2.1	ug/Kg	5	☼	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: VP-1 (2-4') (Continued)
Lab Sample ID: 480-224950-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
delta-BHC	2.0	J	9.1	1.7	ug/Kg	5	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.11	J	0.18	0.046	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	3480	F1	10.8	9.3	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.3	F1	2.2	0.95	mg/Kg	1	☼	6010C	Total/NA
Barium	44.0	F1	0.54	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.15	J F1	0.22	0.043	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.65	F1	0.22	0.076	mg/Kg	1	☼	6010C	Total/NA
Calcium	131000		270	146	mg/Kg	5	☼	6010C	Total/NA
Chromium	4.6	F1	0.54	0.39	mg/Kg	1	☼	6010C	Total/NA
Cobalt	1.9	F1	0.54	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	37.3	F1 F2	1.1	0.62	mg/Kg	1	☼	6010C	Total/NA
Iron	4740		10.8	9.2	mg/Kg	1	☼	6010C	Total/NA
Lead	68.9	F1	1.1	0.50	mg/Kg	1	☼	6010C	Total/NA
Magnesium	68800		108	45.8	mg/Kg	5	☼	6010C	Total/NA
Manganese	378	F1	1.1	0.30	mg/Kg	1	☼	6010C	Total/NA
Nickel	4.1	J F1	5.4	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	943		32.4	26.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	186		151	66.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	7.5	F1	0.54	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	205	F1	2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.12		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: VP-3 (2-4')
Lab Sample ID: 480-224950-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.62	J B F1 vs	5.4	0.33	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.77	J vs	5.4	0.41	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	2500	J F1 F2	18000	1800	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	5700	J F2	18000	1900	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	4000	J F1	18000	2700	ug/Kg	10	☼	8270D	Total/NA
Pyrene	4300	J F1	18000	2200	ug/Kg	10	☼	8270D	Total/NA
4,4'-DDT	40	J B	91	21	ug/Kg	50	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.10	J	0.18	0.044	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	9050		11.4	9.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.0	F1	2.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	136	F1 F2	0.57	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.36	F1 F2	0.23	0.046	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.56	F1 F2	0.23	0.080	mg/Kg	1	☼	6010C	Total/NA
Calcium	108000	F2	286	155	mg/Kg	5	☼	6010C	Total/NA
Chromium	12.3	F1 F2	0.57	0.41	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.3	F1 F2	0.57	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	21.5	F1 F2	1.1	0.65	mg/Kg	1	☼	6010C	Total/NA
Iron	12200	F2	11.4	9.7	mg/Kg	1	☼	6010C	Total/NA
Lead	176	F1 F2	1.1	0.53	mg/Kg	1	☼	6010C	Total/NA
Magnesium	45500	F2	22.9	9.7	mg/Kg	1	☼	6010C	Total/NA
Manganese	461	F1 F2	1.1	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.8	F1 F2	5.7	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	2300	F1 F2	34.3	27.8	mg/Kg	1	☼	6010C	Total/NA
Sodium	547	F1 F2	160	70.2	mg/Kg	1	☼	6010C	Total/NA
Vanadium	16.9	F1 F2	0.57	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	177	F1 F2	2.3	1.2	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: VP-3 (2-4') (Continued)
Lab Sample ID: 480-224950-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	4.5		0.23	0.053	mg/Kg	10	☼	7471B	Total/NA

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.59	J B vs	5.5	0.34	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.99	J vs	5.5	0.42	ug/Kg	1	☼	8260C	Total/NA
Fluoranthene	27	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Pyrene	22	J	190	22	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDT	0.95	J B	1.9	0.44	ug/Kg	1	☼	8081B	Total/NA
Aluminum	3390		11.6	10	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.9	J	2.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	15.5		0.58	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.14	J	0.23	0.046	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.72		0.23	0.081	mg/Kg	1	☼	6010C	Total/NA
Calcium	133000		289	156	mg/Kg	5	☼	6010C	Total/NA
Chromium	3.8		0.58	0.42	mg/Kg	1	☼	6010C	Total/NA
Cobalt	1.7		0.58	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	9.3		1.2	0.66	mg/Kg	1	☼	6010C	Total/NA
Iron	4920		11.6	9.8	mg/Kg	1	☼	6010C	Total/NA
Lead	47.2		1.2	0.53	mg/Kg	1	☼	6010C	Total/NA
Magnesium	79000		116	49.0	mg/Kg	5	☼	6010C	Total/NA
Manganese	429		1.2	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	4.0	J	5.8	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	1100		34.7	28.0	mg/Kg	1	☼	6010C	Total/NA
Sodium	166		162	70.9	mg/Kg	1	☼	6010C	Total/NA
Thallium	1.0	J	6.9	0.88	mg/Kg	1	☼	6010C	Total/NA
Vanadium	7.0		0.58	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	156		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.039		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH-10 (2-4')
Date Collected: 10/29/24 09:30
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-1
Matrix: Solid
Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U vs	5.3	0.39	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,1,2,2-Tetrachloroethane	5.3	U vs	5.3	0.86	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,1,2-Trichloroethane	5.3	U vs	5.3	0.69	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U vs	5.3	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,1-Dichloroethane	5.3	U vs	5.3	0.65	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,1-Dichloroethene	5.3	U vs	5.3	0.65	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,2,4-Trichlorobenzene	5.3	U vs	5.3	0.32	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,2-Dibromo-3-Chloropropane	5.3	U vs	5.3	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,2-Dichlorobenzene	5.3	U vs	5.3	0.42	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,2-Dichloroethane	5.3	U vs	5.3	0.27	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,2-Dichloropropane	5.3	U vs	5.3	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,4-Dichlorobenzene	5.3	U vs	5.3	0.74	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
2-Butanone (MEK)	27	U vs	27	1.9	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
2-Hexanone	27	U vs	27	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.7	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Acetone	27	U vs	27	4.5	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Benzene	**0.29**	**J vs**	5.3	0.26	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Bromodichloromethane	5.3	U vs	5.3	0.71	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Bromoform	5.3	U vs	5.3	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Bromomethane	5.3	U vs	5.3	0.48	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Carbon disulfide	5.3	U vs	5.3	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Carbon tetrachloride	5.3	U vs	5.3	0.51	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Chlorobenzene	5.3	U vs	5.3	0.70	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Dibromochloromethane	5.3	U vs	5.3	0.68	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Chloroethane	5.3	U vs	5.3	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Chloroform	**0.55**	**J B vs**	5.3	0.33	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Chloromethane	5.3	U vs	5.3	0.32	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
cis-1,2-Dichloroethene	5.3	U vs	5.3	0.68	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
cis-1,3-Dichloropropene	5.3	U vs	5.3	0.77	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Cyclohexane	5.3	U vs	5.3	0.74	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Dichlorodifluoromethane	5.3	U vs	5.3	0.44	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Ethylbenzene	**0.62**	**J vs**	5.3	0.37	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
1,2-Dibromoethane	5.3	U vs	5.3	0.68	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Isopropylbenzene	5.3	U vs	5.3	0.80	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Methyl acetate	27	U vs	27	3.2	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Methyl tert-butyl ether	5.3	U vs	5.3	0.52	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Methylcyclohexane	5.3	U vs	5.3	0.81	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Methylene Chloride	**2.6**	**J vs**	5.3	2.4	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Styrene	5.3	U vs	5.3	0.27	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Tetrachloroethene	5.3	U vs	5.3	0.71	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Toluene	**3.3**	**J vs**	5.3	0.40	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
trans-1,2-Dichloroethene	5.3	U vs	5.3	0.55	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
trans-1,3-Dichloropropene	5.3	U vs	5.3	2.3	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Trichloroethene	5.3	U vs	5.3	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Trichlorofluoromethane	5.3	U vs	5.3	0.50	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Vinyl chloride	5.3	U vs	5.3	0.65	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1
Xylenes, Total	**5.3**	**J vs**	11	0.89	ug/Kg	☼	11/03/24 16:37	11/03/24 21:22	1

Client Sample ID: BH-10 (2-4')
Date Collected: 10/29/24 09:30
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-1
Matrix: Solid
Percent Solids: 90.8

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	3.8	J	ug/Kg	☼	8.48	179601-23-1	11/03/24 16:37	11/03/24 21:22	1
o-Xylene	1.5	J	ug/Kg	☼	8.91	95-47-6	11/03/24 16:37	11/03/24 21:22	1
Benzene, 1,2,3-trimethyl-	6.3	T J N	ug/Kg	☼	10.28	526-73-8	11/03/24 16:37	11/03/24 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		71 - 125	11/03/24 16:37	11/03/24 21:22	1
1,2-Dichloroethane-d4 (Surr)	93		64 - 126	11/03/24 16:37	11/03/24 21:22	1
4-Bromofluorobenzene (Surr)	82		72 - 126	11/03/24 16:37	11/03/24 21:22	1
Dibromofluoromethane (Surr)	95		60 - 140	11/03/24 16:37	11/03/24 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2200	U	2200	1200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2,4,5-Trichlorophenol	3700	U	3700	1000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2,4,6-Trichlorophenol	3700	U	3700	740	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2,4-Dichlorophenol	3700	U	3700	390	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2,4-Dimethylphenol	3700	U	3700	890	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2,4-Dinitrophenol	36000	U	36000	17000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2,4-Dinitrotoluene	3700	U	3700	760	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2,6-Dinitrotoluene	3700	U	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2-Chloronaphthalene	3700	U	3700	610	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2-Chlorophenol	7200	U	7200	680	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2-Methylnaphthalene	3700	U	3700	740	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2-Methylphenol	3700	U	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2-Nitroaniline	7200	U	7200	550	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
2-Nitrophenol	3700	U	3700	1000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
3,3'-Dichlorobenzidine	7200	U	7200	4400	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
3-Nitroaniline	7200	U	7200	1000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
4,6-Dinitro-2-methylphenol	7200	U	7200	3700	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
4-Bromophenyl phenyl ether	3700	U	3700	520	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
4-Chloro-3-methylphenol	3700	U	3700	920	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
4-Chloroaniline	3700	U	3700	920	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
4-Chlorophenyl phenyl ether	3700	U	3700	460	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
4-Methylphenol	7200	U	7200	440	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
4-Nitroaniline	7200	U	7200	1900	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
4-Nitrophenol	7200	U	7200	2600	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Acenaphthene	3700	U	3700	550	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Acenaphthylene	3700	U	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Acetophenone	3700	U	3700	500	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Anthracene	3700	U	3700	920	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Atrazine	3700	U	3700	1300	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Benzaldehyde	3700	U	3700	2900	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Benzo[a]anthracene	**1400**	**J**	3700	370	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Benzo[a]pyrene	**1500**	**J**	3700	550	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Benzo[b]fluoranthene	**1900**	**J**	3700	590	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Benzo[g,h,i]perylene	**1200**	**J**	3700	390	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Benzo[k]fluoranthene	**710**	**J**	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Biphenyl	3700	U	3700	550	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
bis (2-chloroisopropyl) ether	3700	U	3700	740	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Bis(2-chloroethoxy)methane	3700	U	3700	790	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20

Client Sample ID: BH-10 (2-4')
Lab Sample ID: 480-224950-1
Date Collected: 10/29/24 09:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	3700	U	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Bis(2-ethylhexyl) phthalate	3700	U	3700	1300	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Butyl benzyl phthalate	3700	U	3700	610	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Caprolactam	3700	U	3700	1100	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Carbazole	3700	U	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Chrysene	**1500**	**J**	3700	830	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Dibenz(a,h)anthracene	3700	U	3700	650	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Dibenzofuran	3700	U	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Diethyl phthalate	3700	U	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Dimethyl phthalate	3700	U	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Di-n-butyl phthalate	3700	U	3700	630	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Di-n-octyl phthalate	3700	U	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Fluoranthene	**3100**	**J**	3700	390	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Fluorene	3700	U	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Hexachlorobenzene	3700	U	3700	500	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Hexachlorobutadiene	3700	U	3700	550	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Hexachlorocyclopentadiene	3700	U	3700	500	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Hexachloroethane	3700	U	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Indeno[1,2,3-cd]pyrene	**980**	**J**	3700	460	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Isophorone	3700	U	3700	790	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Naphthalene	3700	U	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Nitrobenzene	3700	U	3700	410	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
N-Nitrosodi-n-propylamine	3700	U	3700	630	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
N-Nitrosodiphenylamine	3700	U	3700	3000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Pentachlorophenol	7200	U	7200	3700	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Phenanthrene	**2300**	**J**	3700	550	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Phenol	3700	U	3700	570	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20
Pyrene	**2500**	**J**	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 20:35	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*26 - 143*	*10/30/24 17:31*	*10/31/24 20:35*	*20*
2-Fluorobiphenyl (Surr)	*85*		*50 - 121*	*10/30/24 17:31*	*10/31/24 20:35*	*20*
2-Fluorophenol (Surr)	*66*		*36 - 120*	*10/30/24 17:31*	*10/31/24 20:35*	*20*
Nitrobenzene-d5 (Surr)	*86*		*40 - 121*	*10/30/24 17:31*	*10/31/24 20:35*	*20*
Phenol-d5 (Surr)	*76*		*41 - 120*	*10/30/24 17:31*	*10/31/24 20:35*	*20*
p-Terphenyl-d14 (Surr)	*89*		*46 - 143*	*10/30/24 17:31*	*10/31/24 20:35*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	18	U	18	3.5	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
4,4'-DDE	18	U	18	3.8	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
4,4'-DDT	**12**	**J B**	18	4.2	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
Aldrin	18	U	18	4.4	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
alpha-BHC	**3.8**	**J**	18	3.2	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
beta-BHC	18	U	18	3.2	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
Chlordane (.alpha.)	18	U	18	9.0	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
delta-BHC	**4.6**	**J**	18	3.4	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
Dieldrin	18	U	18	4.3	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
Endosulfan I	18	U	18	3.5	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
Endosulfan II	18	U	18	3.2	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10

Client Sample ID: BH-10 (2-4')
Date Collected: 10/29/24 09:30
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-1
Matrix: Solid
Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	18	U	18	3.4	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
Endrin	18	U	18	3.6	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
Heptachlor	18	U	18	3.9	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10
Lindane	18	U	18	3.3	ug/Kg	☼	10/31/24 06:36	11/01/24 11:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*10/31/24 06:36*	*11/01/24 11:31*	*10*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*10/31/24 06:36*	*11/01/24 11:31*	*10*
Tetrachloro-m-xylene	*84*		*30 - 124*	*10/31/24 06:36*	*11/01/24 11:31*	*10*
Tetrachloro-m-xylene	*93*		*30 - 124*	*10/31/24 06:36*	*11/01/24 11:31*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.24	U	0.24	0.047	mg/Kg	☼	10/31/24 09:17	11/02/24 04:36	1
PCB-1221	0.24	U	0.24	0.047	mg/Kg	☼	10/31/24 09:17	11/02/24 04:36	1
PCB-1232	0.24	U	0.24	0.047	mg/Kg	☼	10/31/24 09:17	11/02/24 04:36	1
PCB-1242	0.24	U	0.24	0.047	mg/Kg	☼	10/31/24 09:17	11/02/24 04:36	1
PCB-1248	0.24	U	0.24	0.047	mg/Kg	☼	10/31/24 09:17	11/02/24 04:36	1
PCB-1254	0.24	U	0.24	0.11	mg/Kg	☼	10/31/24 09:17	11/02/24 04:36	1
PCB-1260	0.24	U	0.24	0.11	mg/Kg	☼	10/31/24 09:17	11/02/24 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*60 - 154*	*10/31/24 09:17*	*11/02/24 04:36*	*1*
Tetrachloro-m-xylene	*94*		*60 - 154*	*10/31/24 09:17*	*11/02/24 04:36*	*1*
DCB Decachlorobiphenyl	*90*		*65 - 174*	*10/31/24 09:17*	*11/02/24 04:36*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*10/31/24 09:17*	*11/02/24 04:36*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	18	U	18	6.5	ug/Kg	☼	11/03/24 06:56	11/05/24 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*11/03/24 06:56*	*11/05/24 15:04*	*1*
2,4-Dichlorophenylacetic acid	*61*		*28 - 129*	*11/03/24 06:56*	*11/05/24 15:04*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluoropentanoic acid (PFPeA)	0.36	U	0.36	0.091	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1

Client Sample ID: BH-10 (2-4')
Lab Sample ID: 480-224950-1
Date Collected: 10/29/24 09:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 90.8

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorooctanesulfonic acid (PFOS)	**0.16**	**J**	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.45	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.45	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	0.36	0.091	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	0.36	0.091	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	0.36	0.091	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.91	U	0.91	0.23	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.5	U	4.5	1.1	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.5	U	4.5	1.1	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	0.36	0.091	ug/Kg	☼	11/01/24 07:50	11/02/24 19:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98.7*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:25*	*1*
13C5 PFPeA	*82.9*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:25*	*1*
13C5 PFHxA	*84.8*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:25*	*1*
13C4 PFHpA	*87.0*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:25*	*1*

Client Sample ID: BH-10 (2-4')
Date Collected: 10/29/24 09:30
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-1
Matrix: Solid
Percent Solids: 90.8

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	92.2		20 - 150	11/01/24 07:50	11/02/24 19:25	1
13C9 PFNA	87.7		20 - 150	11/01/24 07:50	11/02/24 19:25	1
13C6 PFDA	88.0		20 - 150	11/01/24 07:50	11/02/24 19:25	1
13C7 PFUnA	91.0		20 - 150	11/01/24 07:50	11/02/24 19:25	1
13C2 PFTeDA	81.8		20 - 150	11/01/24 07:50	11/02/24 19:25	1
13C3 PFBS	93.2		20 - 150	11/01/24 07:50	11/02/24 19:25	1
13C3 PFHxS	88.5		20 - 150	11/01/24 07:50	11/02/24 19:25	1
13C8 PFOS	87.7		20 - 150	11/01/24 07:50	11/02/24 19:25	1
13C8 PFOSA	73.1		20 - 150	11/01/24 07:50	11/02/24 19:25	1
d3-NMeFOSAA	74.5		20 - 150	11/01/24 07:50	11/02/24 19:25	1
d5-NEtFOSAA	86.0		20 - 150	11/01/24 07:50	11/02/24 19:25	1
M2-4:2 FTS	102		20 - 150	11/01/24 07:50	11/02/24 19:25	1
M2-6:2 FTS	102		20 - 150	11/01/24 07:50	11/02/24 19:25	1
M2-8:2 FTS	96.5		20 - 150	11/01/24 07:50	11/02/24 19:25	1
13C3 HFPO-DA	88.3		20 - 150	11/01/24 07:50	11/02/24 19:25	1
d7-N-MeFOSE-M	68.3		20 - 150	11/01/24 07:50	11/02/24 19:25	1
d9-N-EtFOSE-M	67.1		20 - 150	11/01/24 07:50	11/02/24 19:25	1
d5-NEtPFOSA	60.3		20 - 150	11/01/24 07:50	11/02/24 19:25	1
D3-NMeFOSA	62.8		20 - 150	11/01/24 07:50	11/02/24 19:25	1
13C2-PFDoDA	92.9		20 - 150	11/01/24 07:50	11/02/24 19:25	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3670**		10.9	9.4	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Antimony	16.4	U	16.4	0.58	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Arsenic	**3.0**		2.2	0.96	mg/Kg	☼	10/30/24 15:30	11/04/24 13:05	1
Barium	**82.3**		0.55	0.15	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Beryllium	**0.23**		0.22	0.044	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Cadmium	**0.48**		0.22	0.076	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Calcium	**103000**		273	147	mg/Kg	☼	10/30/24 15:30	11/01/24 15:05	5
Chromium	**7.5**		0.55	0.39	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Cobalt	**2.7**		0.55	0.11	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Copper	**15.5**		1.1	0.62	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Iron	**5370**		10.9	9.3	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Lead	**89.3**		1.1	0.50	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Magnesium	**41600**		21.9	9.3	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Manganese	**284**		1.1	0.31	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Nickel	**7.2**		5.5	0.27	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Potassium	**933**		32.8	26.5	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Selenium	4.4	U	4.4	0.87	mg/Kg	☼	10/30/24 15:30	11/04/24 13:05	1
Silver	0.66	U	0.66	0.22	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Sodium	**250**		153	67.0	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Thallium	6.6	U	6.6	0.83	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Vanadium	**9.8**		0.55	0.14	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1
Zinc	**148**		2.2	1.1	mg/Kg	☼	10/30/24 15:30	11/01/24 15:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.41**		0.021	0.0049	mg/Kg	☼	10/31/24 09:44	10/31/24 11:57	1

Client Sample ID: BH-10 (2-4')
Lab Sample ID: 480-224950-1
Date Collected: 10/29/24 09:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 90.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.92	mg/Kg	☼	11/11/24 09:15	11/11/24 10:33	1
Cyanide, Total (SW846 9012B)	1.0	U	1.0	0.49	mg/Kg	☼	11/05/24 14:00	11/05/24 17:49	1

Client Sample ID: VP-4 (2-4')
Lab Sample ID: 480-224950-2
Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.4	U vs	5.4	0.39	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,1,2,2-Tetrachloroethane	5.4	U vs	5.4	0.88	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,1,2-Trichloroethane	5.4	U vs	5.4	0.70	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	5.4	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,1-Dichloroethane	5.4	U vs	5.4	0.66	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,1-Dichloroethene	5.4	U vs	5.4	0.66	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,2,4-Trichlorobenzene	5.4	U vs	5.4	0.33	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,2-Dibromo-3-Chloropropane	5.4	U vs	5.4	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,2-Dichlorobenzene	5.4	U vs	5.4	0.42	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,2-Dichloroethane	5.4	U vs	5.4	0.27	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,2-Dichloropropane	5.4	U vs	5.4	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,3-Dichlorobenzene	5.4	U vs	5.4	0.28	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,4-Dichlorobenzene	5.4	U vs	5.4	0.76	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
2-Butanone (MEK)	27	U vs	27	2.0	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
2-Hexanone	27	U vs	27	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.8	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Acetone	**4.9**	**J vs**	27	4.6	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Benzene	5.4	U vs	5.4	0.26	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Bromodichloromethane	5.4	U vs	5.4	0.72	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Bromoform	5.4	U vs	5.4	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Bromomethane	5.4	U vs	5.4	0.49	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Carbon disulfide	5.4	U vs	5.4	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Carbon tetrachloride	5.4	U vs	5.4	0.52	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Chlorobenzene	5.4	U vs	5.4	0.71	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Dibromochloromethane	5.4	U vs	5.4	0.69	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Chloroethane	5.4	U vs	5.4	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Chloroform	**0.55**	**J B vs**	5.4	0.33	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Chloromethane	5.4	U vs	5.4	0.33	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
cis-1,2-Dichloroethene	5.4	U vs	5.4	0.69	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
cis-1,3-Dichloropropene	5.4	U vs	5.4	0.78	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Cyclohexane	5.4	U vs	5.4	0.76	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Dichlorodifluoromethane	5.4	U vs	5.4	0.45	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Ethylbenzene	5.4	U vs	5.4	0.37	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
1,2-Dibromoethane	5.4	U vs	5.4	0.69	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Isopropylbenzene	5.4	U vs	5.4	0.82	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Methyl acetate	27	U vs	27	3.3	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Methyl tert-butyl ether	5.4	U vs	5.4	0.53	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Methylcyclohexane	5.4	U vs	5.4	0.82	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Methylene Chloride	5.4	U vs	5.4	2.5	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Styrene	5.4	U vs	5.4	0.27	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Tetrachloroethene	5.4	U vs	5.4	0.73	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1

Client Sample ID: VP-4 (2-4')
Date Collected: 10/29/24 10:45
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-2
Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**2.1**	**J vs**	5.4	0.41	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
trans-1,2-Dichloroethene	5.4	U vs	5.4	0.56	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
trans-1,3-Dichloropropene	5.4	U vs	5.4	2.4	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Trichloroethene	5.4	U vs	5.4	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Trichlorofluoromethane	5.4	U vs	5.4	0.51	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Vinyl chloride	5.4	U vs	5.4	0.66	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1
Xylenes, Total	**3.2**	**J vs**	11	0.91	ug/Kg	☼	11/03/24 16:37	11/03/24 21:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*2.5*	*J*	*ug/Kg*	☼	*8.48*	*179601-23-1*	*11/03/24 16:37*	*11/03/24 21:50*	*1*
o-Xylene	*0.72*	*J*	*ug/Kg*	☼	*8.91*	*95-47-6*	*11/03/24 16:37*	*11/03/24 21:50*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*11/03/24 16:37*	*11/03/24 21:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*71 - 125*	*11/03/24 16:37*	*11/03/24 21:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 126*	*11/03/24 16:37*	*11/03/24 21:50*	*1*
4-Bromofluorobenzene (Surr)	*90*		*72 - 126*	*11/03/24 16:37*	*11/03/24 21:50*	*1*
Dibromofluoromethane (Surr)	*92*		*60 - 140*	*11/03/24 16:37*	*11/03/24 21:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	550	U	550	300	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2,4,5-Trichlorophenol	940	U	940	250	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2,4,6-Trichlorophenol	940	U	940	190	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2,4-Dichlorophenol	940	U	940	99	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2,4-Dimethylphenol	940	U	940	230	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2,4-Dinitrophenol	9100	U	9100	4300	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2,4-Dinitrotoluene	940	U	940	190	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2,6-Dinitrotoluene	940	U	940	110	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2-Chloronaphthalene	940	U	940	150	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2-Chlorophenol	1800	U	1800	170	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2-Methylnaphthalene	940	U	940	190	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2-Methylphenol	940	U	940	110	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2-Nitroaniline	1800	U	1800	140	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
2-Nitrophenol	940	U	940	260	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
3,3'-Dichlorobenzidine	1800	U	1800	1100	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
3-Nitroaniline	1800	U	1800	260	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
4,6-Dinitro-2-methylphenol	1800	U	1800	940	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
4-Bromophenyl phenyl ether	940	U	940	130	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
4-Chloro-3-methylphenol	940	U	940	230	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
4-Chloroaniline	940	U	940	230	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
4-Chlorophenyl phenyl ether	940	U	940	120	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
4-Methylphenol	1800	U	1800	110	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
4-Nitroaniline	1800	U	1800	490	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
4-Nitrophenol	1800	U	1800	650	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Acenaphthene	940	U	940	140	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Acenaphthylene	940	U	940	120	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Acetophenone	940	U	940	130	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Anthracene	940	U	940	230	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Atrazine	940	U	940	320	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5

Client Sample ID: VP-4 (2-4')
Lab Sample ID: 480-224950-2
Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	940	U	940	740	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Benzo[a]anthracene	940	U	940	94	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Benzo[a]pyrene	940	U	940	140	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Benzo[b]fluoranthene	940	U	940	150	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Benzo[g,h,i]perylene	**190**	**J**	940	99	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Benzo[k]fluoranthene	940	U	940	120	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Biphenyl	940	U	940	140	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
bis (2-chloroisopropyl) ether	940	U	940	190	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Bis(2-chloroethoxy)methane	940	U	940	200	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Bis(2-chloroethyl)ether	940	U	940	120	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Bis(2-ethylhexyl) phthalate	**510**	**J**	940	320	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Butyl benzyl phthalate	940	U	940	150	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Caprolactam	940	U	940	280	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Carbazole	940	U	940	110	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Chrysene	940	U	940	210	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Dibenz(a,h)anthracene	940	U	940	170	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Dibenzofuran	940	U	940	110	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Diethyl phthalate	940	U	940	120	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Dimethyl phthalate	940	U	940	110	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Di-n-butyl phthalate	940	U	940	160	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Di-n-octyl phthalate	940	U	940	110	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Fluoranthene	**130**	**J**	940	99	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Fluorene	940	U	940	110	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Hexachlorobenzene	940	U	940	130	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Hexachlorobutadiene	940	U	940	140	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Hexachlorocyclopentadiene	940	U	940	130	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Hexachloroethane	940	U	940	120	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Indeno[1,2,3-cd]pyrene	940	U	940	120	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Isophorone	940	U	940	200	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Naphthalene	940	U	940	120	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Nitrobenzene	940	U	940	100	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
N-Nitrosodi-n-propylamine	940	U	940	160	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
N-Nitrosodiphenylamine	940	U	940	760	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Pentachlorophenol	1800	U	1800	940	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Phenanthrene	940	U	940	140	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Phenol	940	U	940	140	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5
Pyrene	**150**	**J**	940	110	ug/Kg	☼	10/30/24 17:31	10/31/24 21:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*26 - 143*	*10/30/24 17:31*	*10/31/24 21:00*	*5*
2-Fluorobiphenyl (Surr)	*93*		*50 - 121*	*10/30/24 17:31*	*10/31/24 21:00*	*5*
2-Fluorophenol (Surr)	*87*		*36 - 120*	*10/30/24 17:31*	*10/31/24 21:00*	*5*
Nitrobenzene-d5 (Surr)	*88*		*40 - 121*	*10/30/24 17:31*	*10/31/24 21:00*	*5*
Phenol-d5 (Surr)	*86*		*41 - 120*	*10/30/24 17:31*	*10/31/24 21:00*	*5*
p-Terphenyl-d14 (Surr)	*91*		*46 - 143*	*10/30/24 17:31*	*10/31/24 21:00*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	18	U	18	3.6	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
4,4'-DDE	18	U	18	3.8	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10

Client Sample ID: VP-4 (2-4')
Date Collected: 10/29/24 10:45
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-2
Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	**8.2**	**J B**	18	4.3	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
Aldrin	18	U	18	4.5	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
alpha-BHC	18	U	18	3.3	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
beta-BHC	18	U	18	3.3	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
Chlordane (.alpha.)	18	U	18	9.1	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
delta-BHC	18	U	18	3.4	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
Dieldrin	18	U	18	4.4	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
Endosulfan I	18	U	18	3.5	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
Endosulfan II	18	U	18	3.3	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
Endosulfan sulfate	18	U	18	3.4	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
Endrin	18	U	18	3.6	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
Heptachlor	18	U	18	4.0	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10
Lindane	18	U	18	3.4	ug/Kg	☼	10/31/24 06:36	11/01/24 11:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*45 - 120*	*10/31/24 06:36*	*11/01/24 11:51*	*10*
DCB Decachlorobiphenyl	*78*		*45 - 120*	*10/31/24 06:36*	*11/01/24 11:51*	*10*
Tetrachloro-m-xylene	*104*		*30 - 124*	*10/31/24 06:36*	*11/01/24 11:51*	*10*
Tetrachloro-m-xylene	*106*		*30 - 124*	*10/31/24 06:36*	*11/01/24 11:51*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.26	U	0.26	0.051	mg/Kg	☼	10/31/24 09:17	11/02/24 04:55	1
PCB-1221	0.26	U	0.26	0.051	mg/Kg	☼	10/31/24 09:17	11/02/24 04:55	1
PCB-1232	0.26	U	0.26	0.051	mg/Kg	☼	10/31/24 09:17	11/02/24 04:55	1
PCB-1242	0.26	U	0.26	0.051	mg/Kg	☼	10/31/24 09:17	11/02/24 04:55	1
PCB-1248	0.26	U	0.26	0.051	mg/Kg	☼	10/31/24 09:17	11/02/24 04:55	1
PCB-1254	0.26	U	0.26	0.12	mg/Kg	☼	10/31/24 09:17	11/02/24 04:55	1
PCB-1260	0.26	U	0.26	0.12	mg/Kg	☼	10/31/24 09:17	11/02/24 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*60 - 154*	*10/31/24 09:17*	*11/02/24 04:55*	*1*
Tetrachloro-m-xylene	*82*		*60 - 154*	*10/31/24 09:17*	*11/02/24 04:55*	*1*
DCB Decachlorobiphenyl	*101*		*65 - 174*	*10/31/24 09:17*	*11/02/24 04:55*	*1*
DCB Decachlorobiphenyl	*120*		*65 - 174*	*10/31/24 09:17*	*11/02/24 04:55*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	18	U	18	6.6	ug/Kg	☼	11/03/24 06:56	11/05/24 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*61*		*28 - 129*	*11/03/24 06:56*	*11/05/24 15:23*	*1*
2,4-Dichlorophenylacetic acid	*61*		*28 - 129*	*11/03/24 06:56*	*11/05/24 15:23*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluoropentanoic acid (PFPeA)	0.36	U	0.36	0.090	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorooctanoic acid (PFOA)	**0.066**	**J**	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1

Client Sample ID: VP-4 (2-4')
Date Collected: 10/29/24 10:45
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-2
Matrix: Solid
Percent Solids: 89.6

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorooctanesulfonic acid (PFOS)	**0.080**	**J**	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.45	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.45	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	0.36	0.090	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	0.36	0.090	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.72	U	0.72	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	0.36	0.090	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.90	U	0.90	0.22	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.5	U	4.5	1.1	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1

Client Sample ID: VP-4 (2-4')
Date Collected: 10/29/24 10:45
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-2
Matrix: Solid
Percent Solids: 89.6

Method: EPA Draft-3 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)	4.5	U	4.5	1.1	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	0.36	0.090	ug/Kg	☼	11/01/24 07:50	11/02/24 19:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98.4*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C5 PFPeA	*85.8*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C5 PFHxA	*92.6*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C4 PFHpA	*94.4*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C8 PFOA	*92.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C9 PFNA	*90.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C6 PFDA	*93.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C7 PFUnA	*89.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C2 PFTeDA	*88.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C3 PFBS	*87.5*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C3 PFHxS	*84.1*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C8 PFOS	*85.8*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C8 PFOSA	*67.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
d3-NMeFOSAA	*75.4*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
d5-NEtFOSAA	*89.8*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
M2-4:2 FTS	*95.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
M2-6:2 FTS	*102*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
M2-8:2 FTS	*102*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C3 HFPO-DA	*95.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
d7-N-MeFOSE-M	*65.6*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
d9-N-EtFOSE-M	*63.4*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
d5-NEtPFOSA	*58.8*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
D3-NMeFOSA	*60.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*
13C2-PFDoDA	*87.9*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:42*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5280**		11.7	10.1	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Antimony	17.6	U	17.6	0.62	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Arsenic	**1.8**	**J**	2.3	1.0	mg/Kg	☼	10/30/24 15:30	11/04/24 13:07	1
Barium	**30.5**		0.59	0.16	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Beryllium	**0.22**	**J**	0.23	0.047	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Cadmium	**0.99**		0.23	0.082	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Calcium	**111000**		293	158	mg/Kg	☼	10/30/24 15:30	11/01/24 15:09	5
Chromium	**5.5**		0.59	0.42	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Cobalt	**2.2**		0.59	0.12	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Copper	**9.0**		1.2	0.67	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Iron	**5990**		11.7	9.9	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Lead	**46.9**		1.2	0.54	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Magnesium	**66900**		117	49.6	mg/Kg	☼	10/30/24 15:30	11/01/24 15:09	5
Manganese	**696**		1.2	0.33	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Nickel	**4.9**	**J**	5.9	0.29	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Potassium	**1070**		35.1	28.4	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Selenium	4.7	U	4.7	0.94	mg/Kg	☼	10/30/24 15:30	11/04/24 13:07	1

Client Sample ID: VP-4 (2-4')
Lab Sample ID: 480-224950-2
Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.70	U	0.70	0.23	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Sodium	**197**		164	71.7	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Thallium	**0.93**	**J**	7.0	0.89	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Vanadium	**9.6**		0.59	0.15	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1
Zinc	**395**		2.3	1.2	mg/Kg	☼	10/30/24 15:30	11/01/24 15:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.023	0.0052	mg/Kg	☼	10/31/24 09:44	10/31/24 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.93	mg/Kg	☼	11/11/24 09:15	11/11/24 10:33	1
Cyanide, Total (SW846 9012B)	1.0	U	1.0	0.50	mg/Kg	☼	11/05/24 14:00	11/05/24 17:50	1

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3
Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.9	U vs	5.9	0.42	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,1,2,2-Tetrachloroethane	5.9	U vs	5.9	0.95	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,1,2-Trichloroethane	5.9	U vs	5.9	0.76	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U vs	5.9	1.3	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,1-Dichloroethane	5.9	U vs	5.9	0.71	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,1-Dichloroethene	5.9	U vs	5.9	0.72	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,2,4-Trichlorobenzene	5.9	U vs	5.9	0.36	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,2-Dibromo-3-Chloropropane	5.9	U vs	5.9	2.9	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,2-Dichlorobenzene	5.9	U vs	5.9	0.46	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,2-Dichloroethane	5.9	U vs	5.9	0.29	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,2-Dichloropropane	5.9	U vs	5.9	2.9	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,3-Dichlorobenzene	5.9	U vs	5.9	0.30	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,4-Dichlorobenzene	5.9	U vs	5.9	0.82	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
2-Butanone (MEK)	29	U vs	29	2.1	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
2-Hexanone	29	U vs	29	2.9	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
4-Methyl-2-pentanone (MIBK)	29	U vs	29	1.9	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Acetone	**5.0**	**J vs**	29	4.9	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Benzene	5.9	U vs	5.9	0.29	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Bromodichloromethane	5.9	U vs	5.9	0.78	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Bromoform	5.9	U vs	5.9	2.9	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Bromomethane	5.9	U vs	5.9	0.53	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Carbon disulfide	5.9	U vs	5.9	2.9	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Carbon tetrachloride	5.9	U vs	5.9	0.57	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Chlorobenzene	5.9	U vs	5.9	0.77	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Dibromochloromethane	5.9	U vs	5.9	0.75	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Chloroethane	5.9	U vs	5.9	1.3	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Chloroform	**0.58**	**J B vs**	5.9	0.36	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Chloromethane	5.9	U vs	5.9	0.35	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
cis-1,2-Dichloroethene	5.9	U vs	5.9	0.75	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3
Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	5.9	U vs	5.9	0.84	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Cyclohexane	5.9	U vs	5.9	0.82	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Dichlorodifluoromethane	5.9	U vs	5.9	0.48	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Ethylbenzene	5.9	U vs	5.9	0.40	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
1,2-Dibromoethane	5.9	U vs	5.9	0.75	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Isopropylbenzene	5.9	U vs	5.9	0.88	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Methyl acetate	29	U vs	29	3.5	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Methyl tert-butyl ether	5.9	U vs	5.9	0.57	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Methylcyclohexane	5.9	U vs	5.9	0.89	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Methylene Chloride	**2.8**	**J vs**	5.9	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Styrene	5.9	U vs	5.9	0.29	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Tetrachloroethene	5.9	U vs	5.9	0.79	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Toluene	**1.9**	**J vs**	5.9	0.44	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
trans-1,2-Dichloroethene	5.9	U vs	5.9	0.60	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
trans-1,3-Dichloropropene	5.9	U vs	5.9	2.6	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Trichloroethene	5.9	U vs	5.9	1.3	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Trichlorofluoromethane	5.9	U vs	5.9	0.55	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Vinyl chloride	5.9	U vs	5.9	0.71	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1
Xylenes, Total	**1.5**	**J vs**	12	0.98	ug/Kg	☼	11/03/24 16:37	11/03/24 22:17	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*1.5*	*J*	*ug/Kg*	☼	*8.48*	*179601-23-1*	*11/03/24 16:37*	*11/03/24 22:17*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*11/03/24 16:37*	*11/03/24 22:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*71 - 125*	*11/03/24 16:37*	*11/03/24 22:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*64 - 126*	*11/03/24 16:37*	*11/03/24 22:17*	*1*
4-Bromofluorobenzene (Surr)	*90*		*72 - 126*	*11/03/24 16:37*	*11/03/24 22:17*	*1*
Dibromofluoromethane (Surr)	*93*		*60 - 140*	*11/03/24 16:37*	*11/03/24 22:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	120	U	120	64	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2,4,5-Trichlorophenol	200	U	200	53	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2,4,6-Trichlorophenol	200	U	200	39	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2,4-Dichlorophenol	200	U	200	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2,4-Dimethylphenol	200	U	200	48	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2,4-Dinitrophenol	1900	U	1900	910	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2,4-Dinitrotoluene	200	U	200	41	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2,6-Dinitrotoluene	200	U	200	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2-Chloronaphthalene	200	U	200	32	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2-Chlorophenol	380	U	380	36	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2-Methylnaphthalene	200	U	200	39	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2-Methylphenol	200	U	200	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2-Nitroaniline	380	U	380	29	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
2-Nitrophenol	200	U	200	56	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
3,3'-Dichlorobenzidine	380	U	380	230	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
3-Nitroaniline	380	U	380	54	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
4,6-Dinitro-2-methylphenol	380	U	380	200	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
4-Bromophenyl phenyl ether	200	U	200	28	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3
Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	200	U	200	49	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
4-Chloroaniline	200	U	200	49	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
4-Chlorophenyl phenyl ether	200	U	200	24	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
4-Methylphenol	380	U	380	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
4-Nitroaniline	380	U	380	100	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
4-Nitrophenol	380	U	380	140	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Acenaphthene	200	U	200	29	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Acenaphthylene	200	U	200	25	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Acetophenone	200	U	200	27	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Anthracene	200	U	200	49	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Atrazine	200	U	200	68	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Benzaldehyde	200	U	200	160	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Benzo[a]anthracene	200	U	200	20	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Benzo[a]pyrene	200	U	200	29	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Benzo[b]fluoranthene	200	U	200	31	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Benzo[g,h,i]perylene	200	U	200	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Benzo[k]fluoranthene	200	U	200	25	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Biphenyl	200	U	200	29	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
bis (2-chloroisopropyl) ether	200	U	200	39	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Bis(2-chloroethoxy)methane	200	U	200	42	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Bis(2-chloroethyl)ether	200	U	200	25	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Bis(2-ethylhexyl) phthalate	200	U	200	67	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Butyl benzyl phthalate	200	U	200	32	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Caprolactam	200	U	200	59	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Carbazole	200	U	200	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Chrysene	200	U	200	44	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Dibenz(a,h)anthracene	200	U	200	35	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Dibenzofuran	200	U	200	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Diethyl phthalate	200	U	200	25	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Dimethyl phthalate	200	U	200	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Di-n-butyl phthalate	200	U	200	34	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Di-n-octyl phthalate	200	U	200	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Fluoranthene	200	U	200	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Fluorene	200	U	200	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Hexachlorobenzene	200	U	200	27	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Hexachlorobutadiene	200	U	200	29	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Hexachlorocyclopentadiene	200	U	200	27	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Hexachloroethane	200	U	200	25	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Indeno[1,2,3-cd]pyrene	200	U	200	24	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Isophorone	200	U	200	42	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Naphthalene	200	U	200	25	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Nitrobenzene	200	U	200	22	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
N-Nitrosodi-n-propylamine	200	U	200	34	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
N-Nitrosodiphenylamine	200	U	200	160	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Pentachlorophenol	380	U	380	200	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Phenanthrene	200	U	200	29	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Phenol	200	U	200	30	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1
Pyrene	200	U	200	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:24	1

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3

Date Collected: 10/29/24 10:45
Matrix: Solid

Date Received: 10/30/24 16:22
Percent Solids: 85.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*58*		*26 - 143*	*10/30/24 17:31*	*10/31/24 21:24*	*1*
2-Fluorobiphenyl (Surr)	*48*	*S1-*	*50 - 121*	*10/30/24 17:31*	*10/31/24 21:24*	*1*
2-Fluorophenol (Surr)	*44*		*36 - 120*	*10/30/24 17:31*	*10/31/24 21:24*	*1*
Nitrobenzene-d5 (Surr)	*44*		*40 - 121*	*10/30/24 17:31*	*10/31/24 21:24*	*1*
Phenol-d5 (Surr)	*47*		*41 - 120*	*10/30/24 17:31*	*10/31/24 21:24*	*1*
p-Terphenyl-d14 (Surr)	*63*		*46 - 143*	*10/30/24 17:31*	*10/31/24 21:24*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	19	U	19	3.7	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
4,4'-DDE	19	U	19	4.0	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
4,4'-DDT	**8.7**	**J B**	19	4.5	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
Aldrin	19	U	19	4.7	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
alpha-BHC	19	U	19	3.4	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
beta-BHC	19	U	19	3.4	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
Chlordane (.alpha.)	19	U	19	9.5	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
delta-BHC	19	U	19	3.6	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
Dieldrin	19	U	19	4.6	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
Endosulfan I	19	U	19	3.7	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
Endosulfan II	19	U	19	3.4	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
Endosulfan sulfate	19	U	19	3.6	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
Endrin	19	U	19	3.8	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
Heptachlor	19	U	19	4.1	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10
Lindane	19	U	19	3.5	ug/Kg	☼	10/31/24 06:36	11/01/24 12:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*45 - 120*	*10/31/24 06:36*	*11/01/24 12:11*	*10*
DCB Decachlorobiphenyl	*94*		*45 - 120*	*10/31/24 06:36*	*11/01/24 12:11*	*10*
Tetrachloro-m-xylene	*108*		*30 - 124*	*10/31/24 06:36*	*11/01/24 12:11*	*10*
Tetrachloro-m-xylene	*92*		*30 - 124*	*10/31/24 06:36*	*11/01/24 12:11*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.28	U	0.28	0.054	mg/Kg	☼	10/31/24 09:17	11/02/24 05:50	1
PCB-1221	0.28	U	0.28	0.054	mg/Kg	☼	10/31/24 09:17	11/02/24 05:50	1
PCB-1232	0.28	U	0.28	0.054	mg/Kg	☼	10/31/24 09:17	11/02/24 05:50	1
PCB-1242	0.28	U	0.28	0.054	mg/Kg	☼	10/31/24 09:17	11/02/24 05:50	1
PCB-1248	0.28	U	0.28	0.054	mg/Kg	☼	10/31/24 09:17	11/02/24 05:50	1
PCB-1254	0.28	U	0.28	0.13	mg/Kg	☼	10/31/24 09:17	11/02/24 05:50	1
PCB-1260	0.28	U	0.28	0.13	mg/Kg	☼	10/31/24 09:17	11/02/24 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*60 - 154*	*10/31/24 09:17*	*11/02/24 05:50*	*1*
Tetrachloro-m-xylene	*102*		*60 - 154*	*10/31/24 09:17*	*11/02/24 05:50*	*1*
DCB Decachlorobiphenyl	*96*		*65 - 174*	*10/31/24 09:17*	*11/02/24 05:50*	*1*
DCB Decachlorobiphenyl	*113*		*65 - 174*	*10/31/24 09:17*	*11/02/24 05:50*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	19	U	19	7.0	ug/Kg	☼	11/03/24 06:56	11/05/24 16:00	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3

Date Collected: 10/29/24 10:45
Matrix: Solid

Date Received: 10/30/24 16:22
Percent Solids: 85.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*11/03/24 06:56*	*11/05/24 16:00*	*1*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*11/03/24 06:56*	*11/05/24 16:00*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.77	U	0.77	0.19	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.096	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.48	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.48	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.77	U	0.77	0.19	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.77	U	0.77	0.19	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.096	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.096	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1

Client Sample ID: VP-4 QA/QC (2-4')
Date Collected: 10/29/24 10:45
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-3
Matrix: Solid
Percent Solids: 85.3

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.77	U	0.77	0.19	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.77	U	0.77	0.19	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U	0.38	0.096	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.96	U	0.96	0.24	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.8	U	4.8	1.2	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.8	U	4.8	1.2	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.048	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.096	ug/Kg	☼	11/01/24 07:50	11/02/24 19:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93.7*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C5 PFPeA	*84.0*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C5 PFHxA	*85.7*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C4 PFHpA	*90.8*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C8 PFOA	*85.8*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C9 PFNA	*91.0*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C6 PFDA	*87.7*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C7 PFUnA	*84.6*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C2 PFTeDA	*88.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C3 PFBS	*89.4*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C3 PFHxS	*84.8*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C8 PFOS	*84.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C8 PFOSA	*68.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
d3-NMeFOSAA	*73.7*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
d5-NEtFOSAA	*92.5*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
M2-4:2 FTS	*98.9*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
M2-6:2 FTS	*97.1*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
M2-8:2 FTS	*97.9*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C3 HFPO-DA	*89.5*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
d7-N-MeFOSE-M	*66.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
d9-N-EtFOSE-M	*65.5*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
d5-NEtPFOSA	*55.8*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
D3-NMeFOSA	*56.0*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*
13C2-PFDoDA	*89.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 19:59*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7150**		11.2	9.7	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Antimony	16.8	U	16.8	0.59	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Arsenic	**2.6**		2.2	0.99	mg/Kg	☼	10/30/24 15:30	11/04/24 13:09	1
Barium	**31.2**		0.56	0.16	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Beryllium	**0.26**		0.22	0.045	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Cadmium	**1.2**		0.22	0.079	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Calcium	**121000**		280	151	mg/Kg	☼	10/30/24 15:30	11/01/24 15:13	5
Chromium	**7.3**		0.56	0.40	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3
Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**3.0**		0.56	0.11	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Copper	**5.1**		1.1	0.64	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Iron	**8250**		11.2	9.5	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Lead	**33.1**		1.1	0.52	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Magnesium	**71500**		112	47.6	mg/Kg	☼	10/30/24 15:30	11/01/24 15:13	5
Manganese	**875**		1.1	0.31	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Nickel	**5.9**		5.6	0.28	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Potassium	**1110**		33.7	27.2	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Selenium	4.5	U	4.5	0.90	mg/Kg	☼	10/30/24 15:30	11/04/24 13:09	1
Silver	0.67	U	0.67	0.22	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Sodium	**238**		157	68.8	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Thallium	**0.99**	**J**	6.7	0.85	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Vanadium	**12.7**		0.56	0.15	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1
Zinc	**386**		2.2	1.1	mg/Kg	☼	10/30/24 15:30	11/01/24 15:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.089**		0.024	0.0055	mg/Kg	☼	10/31/24 09:44	10/31/24 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.3	U	2.3	0.98	mg/Kg	☼	11/11/24 09:15	11/11/24 10:33	1
Cyanide, Total (SW846 9012B)	1.1	U	1.1	0.56	mg/Kg	☼	11/05/24 14:00	11/05/24 17:51	1

Client Sample ID: VP-2 (2-4')
Lab Sample ID: 480-224950-4
Date Collected: 10/29/24 13:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.2	U vs	5.2	0.38	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,1,2,2-Tetrachloroethane	5.2	U vs	5.2	0.85	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,1,2-Trichloroethane	5.2	U vs	5.2	0.68	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U vs	5.2	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,1-Dichloroethane	5.2	U vs	5.2	0.64	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,1-Dichloroethene	5.2	U vs	5.2	0.64	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,2,4-Trichlorobenzene	5.2	U vs	5.2	0.32	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,2-Dibromo-3-Chloropropane	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,2-Dichlorobenzene	5.2	U vs	5.2	0.41	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,2-Dichloroethane	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,2-Dichloropropane	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,3-Dichlorobenzene	5.2	U vs	5.2	0.27	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,4-Dichlorobenzene	5.2	U vs	5.2	0.73	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
2-Butanone (MEK)	26	U vs	26	1.9	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
2-Hexanone	26	U vs	26	2.6	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Acetone	**6.5**	**J vs**	26	4.4	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Benzene	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Bromodichloromethane	5.2	U vs	5.2	0.70	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Bromoform	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1

Client Sample ID: VP-2 (2-4')
Date Collected: 10/29/24 13:30
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-4
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	5.2	U vs	5.2	0.47	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Carbon disulfide	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Carbon tetrachloride	5.2	U vs	5.2	0.51	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Chlorobenzene	5.2	U vs	5.2	0.69	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Dibromochloromethane	5.2	U vs	5.2	0.67	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Chloroethane	5.2	U vs	5.2	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Chloroform	5.2	U vs	5.2	0.32	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Chloromethane	5.2	U vs	5.2	0.32	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
cis-1,2-Dichloroethene	5.2	U vs	5.2	0.67	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
cis-1,3-Dichloropropene	5.2	U vs	5.2	0.75	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Cyclohexane	5.2	U vs	5.2	0.73	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Dichlorodifluoromethane	5.2	U vs	5.2	0.43	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Ethylbenzene	5.2	U vs	5.2	0.36	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
1,2-Dibromoethane	5.2	U vs	5.2	0.67	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Isopropylbenzene	5.2	U vs	5.2	0.79	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Methyl acetate	26	U vs	26	3.2	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Methyl tert-butyl ether	5.2	U vs	5.2	0.51	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Methylcyclohexane	5.2	U vs	5.2	0.80	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Methylene Chloride	5.2	U vs	5.2	2.4	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Styrene	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Tetrachloroethene	5.2	U vs	5.2	0.70	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Toluene	**1.3**	**J vs**	5.2	0.40	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
trans-1,2-Dichloroethene	5.2	U vs	5.2	0.54	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
trans-1,3-Dichloropropene	5.2	U vs	5.2	2.3	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Trichloroethene	5.2	U vs	5.2	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Trichlorofluoromethane	5.2	U vs	5.2	0.49	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Vinyl chloride	5.2	U vs	5.2	0.64	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1
Xylenes, Total	**0.97**	**J vs**	10	0.88	ug/Kg	☼	11/03/24 16:37	11/03/24 22:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*0.97*	*J*	*ug/Kg*	☼	*8.48*	*179601-23-1*	*11/03/24 16:37*	*11/03/24 22:44*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*11/03/24 16:37*	*11/03/24 22:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*71 - 125*	*11/03/24 16:37*	*11/03/24 22:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*64 - 126*	*11/03/24 16:37*	*11/03/24 22:44*	*1*
4-Bromofluorobenzene (Surr)	*91*		*72 - 126*	*11/03/24 16:37*	*11/03/24 22:44*	*1*
Dibromofluoromethane (Surr)	*95*		*60 - 140*	*11/03/24 16:37*	*11/03/24 22:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	57	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2,4,5-Trichlorophenol	180	U	180	48	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2,4,6-Trichlorophenol	180	U	180	35	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2,4-Dichlorophenol	180	U	180	19	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2,4-Dimethylphenol	180	U	180	43	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2,4-Dinitrophenol	1700	U	1700	820	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2,4-Dinitrotoluene	180	U	180	36	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2,6-Dinitrotoluene	180	U	180	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2-Chloronaphthalene	180	U	180	29	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1

Client Sample ID: VP-2 (2-4')
Lab Sample ID: 480-224950-4
Date Collected: 10/29/24 13:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	340	U	340	32	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2-Methylnaphthalene	180	U	180	35	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2-Methylphenol	180	U	180	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2-Nitroaniline	340	U	340	26	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
2-Nitrophenol	180	U	180	50	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
3,3'-Dichlorobenzidine	340	U	340	210	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
3-Nitroaniline	340	U	340	49	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
4,6-Dinitro-2-methylphenol	340	U	340	180	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
4-Bromophenyl phenyl ether	180	U	180	25	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
4-Chloro-3-methylphenol	180	U	180	44	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
4-Chloroaniline	180	U	180	44	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
4-Chlorophenyl phenyl ether	180	U	180	22	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
4-Methylphenol	340	U	340	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
4-Nitroaniline	340	U	340	93	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
4-Nitrophenol	340	U	340	120	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Acenaphthene	180	U	180	26	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Acenaphthylene	180	U	180	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Acetophenone	180	U	180	24	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Anthracene	180	U	180	44	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Atrazine	180	U	180	61	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Benzaldehyde	180	U	180	140	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Benzo[a]anthracene	180	U	180	18	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Benzo[a]pyrene	180	U	180	26	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Benzo[b]fluoranthene	180	U	180	28	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Benzo[g,h,i]perylene	180	U	180	19	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Benzo[k]fluoranthene	180	U	180	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Biphenyl	180	U	180	26	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
bis (2-chloroisopropyl) ether	180	U	180	35	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Bis(2-chloroethoxy)methane	180	U	180	38	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Bis(2-chloroethyl)ether	180	U	180	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Bis(2-ethylhexyl) phthalate	180	U	180	60	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Butyl benzyl phthalate	180	U	180	29	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Caprolactam	180	U	180	53	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Carbazole	180	U	180	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Chrysene	180	U	180	40	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Dibenz(a,h)anthracene	180	U	180	31	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Dibenzofuran	180	U	180	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Diethyl phthalate	180	U	180	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Dimethyl phthalate	180	U	180	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Di-n-butyl phthalate	180	U	180	30	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Di-n-octyl phthalate	180	U	180	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Fluoranthene	180	U	180	19	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Fluorene	180	U	180	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Hexachlorobenzene	180	U	180	24	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Hexachlorobutadiene	180	U	180	26	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Hexachlorocyclopentadiene	180	U	180	24	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Hexachloroethane	180	U	180	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Indeno[1,2,3-cd]pyrene	180	U	180	22	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Isophorone	180	U	180	38	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1

Client Sample ID: VP-2 (2-4')
Date Collected: 10/29/24 13:30
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-4
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	180	U	180	23	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Nitrobenzene	180	U	180	20	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
N-Nitrosodi-n-propylamine	180	U	180	30	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
N-Nitrosodiphenylamine	180	U	180	140	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Pentachlorophenol	340	U	340	180	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Phenanthrene	180	U	180	26	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Phenol	180	U	180	27	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1
Pyrene	180	U	180	21	ug/Kg	☼	10/30/24 17:31	10/31/24 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*26 - 143*	*10/30/24 17:31*	*10/31/24 21:49*	*1*
2-Fluorobiphenyl (Surr)	*53*		*50 - 121*	*10/30/24 17:31*	*10/31/24 21:49*	*1*
2-Fluorophenol (Surr)	*57*		*36 - 120*	*10/30/24 17:31*	*10/31/24 21:49*	*1*
Nitrobenzene-d5 (Surr)	*53*		*40 - 121*	*10/30/24 17:31*	*10/31/24 21:49*	*1*
Phenol-d5 (Surr)	*58*		*41 - 120*	*10/30/24 17:31*	*10/31/24 21:49*	*1*
p-Terphenyl-d14 (Surr)	*74*		*46 - 143*	*10/30/24 17:31*	*10/31/24 21:49*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.8	U	1.8	0.34	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
4,4'-DDE	1.8	U	1.8	0.37	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
4,4'-DDT	**0.77**	**J B**	1.8	0.41	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
Aldrin	1.8	U	1.8	0.43	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
alpha-BHC	1.8	U	1.8	0.32	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
beta-BHC	1.8	U	1.8	0.32	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
Chlordane (.alpha.)	1.8	U	1.8	0.87	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
delta-BHC	1.8	U	1.8	0.33	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
Dieldrin	1.8	U	1.8	0.42	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
Endosulfan I	1.8	U	1.8	0.34	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
Endosulfan II	1.8	U	1.8	0.32	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
Endosulfan sulfate	1.8	U	1.8	0.33	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
Endrin	1.8	U	1.8	0.35	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
Heptachlor	1.8	U	1.8	0.38	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1
Lindane	**0.58**	**J**	1.8	0.32	ug/Kg	☼	10/31/24 06:36	11/01/24 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*45 - 120*	*10/31/24 06:36*	*11/01/24 12:30*	*1*
DCB Decachlorobiphenyl	*92*		*45 - 120*	*10/31/24 06:36*	*11/01/24 12:30*	*1*
Tetrachloro-m-xylene	*71*		*30 - 124*	*10/31/24 06:36*	*11/01/24 12:30*	*1*
Tetrachloro-m-xylene	*84*		*30 - 124*	*10/31/24 06:36*	*11/01/24 12:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.25	U	0.25	0.050	mg/Kg	☼	10/31/24 09:17	11/02/24 06:08	1
PCB-1221	0.25	U	0.25	0.050	mg/Kg	☼	10/31/24 09:17	11/02/24 06:08	1
PCB-1232	0.25	U	0.25	0.050	mg/Kg	☼	10/31/24 09:17	11/02/24 06:08	1
PCB-1242	0.25	U	0.25	0.050	mg/Kg	☼	10/31/24 09:17	11/02/24 06:08	1
PCB-1248	0.25	U	0.25	0.050	mg/Kg	☼	10/31/24 09:17	11/02/24 06:08	1
PCB-1254	0.25	U	0.25	0.12	mg/Kg	☼	10/31/24 09:17	11/02/24 06:08	1
PCB-1260	0.25	U	0.25	0.12	mg/Kg	☼	10/31/24 09:17	11/02/24 06:08	1

Client Sample ID: VP-2 (2-4')
Date Collected: 10/29/24 13:30
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-4
Matrix: Solid
Percent Solids: 93.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*103*		*60 - 154*	*10/31/24 09:17*	*11/02/24 06:08*	*1*
Tetrachloro-m-xylene	*105*		*60 - 154*	*10/31/24 09:17*	*11/02/24 06:08*	*1*
DCB Decachlorobiphenyl	*100*		*65 - 174*	*10/31/24 09:17*	*11/02/24 06:08*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*10/31/24 09:17*	*11/02/24 06:08*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	18	U	18	6.4	ug/Kg	☼	11/03/24 06:56	11/05/24 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*11/03/24 06:56*	*11/05/24 16:18*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*11/03/24 06:56*	*11/05/24 16:18*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluoropentanoic acid (PFPeA)	0.36	U	0.36	0.089	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorooctanesulfonic acid (PFOS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.45	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

Client Sample ID: VP-2 (2-4')
Lab Sample ID: 480-224950-4
Date Collected: 10/29/24 13:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 93.5

Method: EPA Draft-3 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)	1.8	U	1.8	0.45	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	0.36	0.089	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	0.36	0.089	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	0.36	0.089	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.89	U	0.89	0.22	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.5	U	4.5	1.1	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.5	U	4.5	1.1	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.045	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	0.36	0.089	ug/Kg	☼	11/01/24 07:50	11/02/24 18:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99.7*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C5 PFPeA	*88.0*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C5 PFHxA	*88.1*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C4 PFHpA	*94.4*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C8 PFOA	*95.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C9 PFNA	*89.9*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C6 PFDA	*93.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C7 PFUnA	*88.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C2 PFTeDA	*76.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C3 PFBS	*88.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C3 PFHxS	*87.9*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C8 PFOS	*85.6*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C8 PFOSA	*71.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
d3-NMeFOSAA	*82.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
d5-NEtFOSAA	*91.9*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
M2-4:2 FTS	*101*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
M2-6:2 FTS	*99.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
M2-8:2 FTS	*109*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C3 HFPO-DA	*94.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
d7-N-MeFOSE-M	*68.9*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
d9-N-EtFOSE-M	*68.0*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
d5-NEtPFOSA	*58.9*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
D3-NMeFOSA	*57.1*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*
13C2-PFDoDA	*87.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:02*	*1*

Client Sample ID: VP-2 (2-4')
Lab Sample ID: 480-224950-4

Date Collected: 10/29/24 13:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 93.5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1830**		10.8	9.3	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Antimony	16.2	U	16.2	0.57	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Arsenic	**1.1**	**J**	2.2	0.95	mg/Kg	☼	10/30/24 15:30	11/04/24 13:11	1
Barium	**7.1**		0.54	0.15	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Beryllium	**0.079**	**J**	0.22	0.043	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Cadmium	**0.49**		0.22	0.075	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Calcium	**167000**		269	145	mg/Kg	☼	10/30/24 15:30	11/01/24 15:35	5
Chromium	**2.5**		0.54	0.39	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Cobalt	**0.54**		0.54	0.11	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Copper	**2.6**		1.1	0.61	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Iron	**2570**		10.8	9.1	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Lead	**7.2**		1.1	0.50	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Magnesium	**104000**		108	45.7	mg/Kg	☼	10/30/24 15:30	11/01/24 15:35	5
Manganese	**347**		1.1	0.30	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Nickel	**1.7**	**J**	5.4	0.27	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Potassium	**580**		32.3	26.1	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Selenium	4.3	U	4.3	0.86	mg/Kg	☼	10/30/24 15:30	11/04/24 13:11	1
Silver	0.65	U	0.65	0.22	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Sodium	**180**		151	66.0	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Thallium	**0.95**	**J**	6.5	0.82	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Vanadium	**3.2**		0.54	0.14	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1
Zinc	**175**		2.2	1.1	mg/Kg	☼	10/30/24 15:30	11/01/24 15:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.022	0.0050	mg/Kg	☼	10/31/24 09:44	10/31/24 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.89	mg/Kg	☼	11/11/24 09:15	11/11/24 10:33	1
Cyanide, Total (SW846 9012B)	0.91	U	0.91	0.44	mg/Kg	☼	11/05/24 14:00	11/05/24 17:53	1

Client Sample ID: VP-1 (2-4')
Lab Sample ID: 480-224950-5

Date Collected: 10/29/24 14:00
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U vs	5.3	0.38	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,1,2,2-Tetrachloroethane	5.3	U vs	5.3	0.86	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,1,2-Trichloroethane	5.3	U vs	5.3	0.69	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U vs	5.3	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,1-Dichloroethane	5.3	U vs	5.3	0.64	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,1-Dichloroethene	5.3	U vs	5.3	0.65	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,2,4-Trichlorobenzene	5.3	U F1 vs	5.3	0.32	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,2-Dibromo-3-Chloropropane	5.3	U vs	5.3	2.6	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,2-Dichlorobenzene	5.3	U vs	5.3	0.41	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,2-Dichloroethane	5.3	U vs	5.3	0.27	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,2-Dichloropropane	5.3	U vs	5.3	2.6	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1

Client Sample ID: VP-1 (2-4')
Date Collected: 10/29/24 14:00
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-5
Matrix: Solid
Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	5.3	U vs	5.3	0.74	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
2-Butanone (MEK)	26	U F1 vs	26	1.9	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
2-Hexanone	26	U vs	26	2.6	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Acetone	**9.0**	**J F1 vs**	26	4.4	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Benzene	5.3	U vs	5.3	0.26	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Bromodichloromethane	5.3	U vs	5.3	0.71	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Bromoform	5.3	U vs	5.3	2.6	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Bromomethane	5.3	U vs	5.3	0.48	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Carbon disulfide	5.3	U vs	5.3	2.6	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Carbon tetrachloride	5.3	U vs	5.3	0.51	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Chlorobenzene	5.3	U vs	5.3	0.70	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Dibromochloromethane	5.3	U vs	5.3	0.68	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Chloroethane	5.3	U vs	5.3	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Chloroform	**0.51**	**J B vs**	5.3	0.33	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Chloromethane	5.3	U vs	5.3	0.32	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
cis-1,2-Dichloroethene	5.3	U vs	5.3	0.68	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
cis-1,3-Dichloropropene	5.3	U vs	5.3	0.76	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Cyclohexane	5.3	U vs	5.3	0.74	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Dichlorodifluoromethane	5.3	U vs	5.3	0.44	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Ethylbenzene	5.3	U vs	5.3	0.36	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
1,2-Dibromoethane	5.3	U vs	5.3	0.68	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Isopropylbenzene	5.3	U F1 vs	5.3	0.80	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Methyl acetate	26	U vs	26	3.2	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Methyl tert-butyl ether	5.3	U vs	5.3	0.52	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Methylcyclohexane	5.3	U F1 vs	5.3	0.80	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Methylene Chloride	**2.4**	**J vs**	5.3	2.4	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Styrene	5.3	U vs	5.3	0.26	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Tetrachloroethene	**3.9**	**J vs**	5.3	0.71	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Toluene	**2.0**	**J vs**	5.3	0.40	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
trans-1,2-Dichloroethene	5.3	U vs	5.3	0.55	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
trans-1,3-Dichloropropene	5.3	U vs	5.3	2.3	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Trichloroethene	5.3	U vs	5.3	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Trichlorofluoromethane	5.3	U vs	5.3	0.50	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Vinyl chloride	5.3	U vs	5.3	0.64	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1
Xylenes, Total	**2.1**	**J vs**	11	0.89	ug/Kg	☼	11/03/24 16:37	11/03/24 23:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*1.4*	*J*	*ug/Kg*	☼	*8.48*	*179601-23-1*	*11/03/24 16:37*	*11/03/24 23:11*	*1*
o-Xylene	*0.72*	*J*	*ug/Kg*	☼	*8.90*	*95-47-6*	*11/03/24 16:37*	*11/03/24 23:11*	*1*
Azulene	*120*	*T J N*	*ug/Kg*	☼	*12.63*	*275-51-4*	*11/03/24 16:37*	*11/03/24 23:11*	*1*
Naphthalene, 2-methyl-	*37*	*T J N*	*ug/Kg*	☼	*13.54*	*91-57-6*	*11/03/24 16:37*	*11/03/24 23:11*	*1*
1,4-Methanonaphthalene, 1,4-dihydro-	*20*	*T J N*	*ug/Kg*	☼	*13.70*	*4453-90-1*	*11/03/24 16:37*	*11/03/24 23:11*	*1*
Naphthalene, 2,6-dimethyl-	*6.3*	*T J N*	*ug/Kg*	☼	*14.48*	*581-42-0*	*11/03/24 16:37*	*11/03/24 23:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*71 - 125*	*11/03/24 16:37*	*11/03/24 23:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*64 - 126*	*11/03/24 16:37*	*11/03/24 23:11*	*1*
4-Bromofluorobenzene (Surr)	*88*		*72 - 126*	*11/03/24 16:37*	*11/03/24 23:11*	*1*

Client Sample ID: VP-1 (2-4')
Date Collected: 10/29/24 14:00
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-5
Matrix: Solid
Percent Solids: 91.2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*90*		*60 - 140*	*11/03/24 16:37*	*11/03/24 23:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2200	U F1	2200	1200	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2,4,5-Trichlorophenol	3700	U	3700	1000	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2,4,6-Trichlorophenol	3700	U	3700	740	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2,4-Dichlorophenol	3700	U	3700	390	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2,4-Dimethylphenol	3700	U	3700	900	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2,4-Dinitrophenol	36000	U	36000	17000	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2,4-Dinitrotoluene	3700	U	3700	760	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2,6-Dinitrotoluene	3700	U	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2-Chloronaphthalene	3700	U	3700	610	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2-Chlorophenol	7200	U	7200	680	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2-Methylnaphthalene	3700	U	3700	740	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2-Methylphenol	3700	U	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2-Nitroaniline	7200	U	7200	550	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
2-Nitrophenol	3700	U	3700	1000	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
3,3'-Dichlorobenzidine	7200	U	7200	4400	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
3-Nitroaniline	7200	U F1	7200	1000	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
4,6-Dinitro-2-methylphenol	7200	U	7200	3700	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
4-Bromophenyl phenyl ether	3700	U F2	3700	520	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
4-Chloro-3-methylphenol	3700	U	3700	920	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
4-Chloroaniline	3700	U	3700	920	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
4-Chlorophenyl phenyl ether	3700	U	3700	460	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
4-Methylphenol	7200	U	7200	440	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
4-Nitroaniline	7200	U	7200	1900	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
4-Nitrophenol	7200	U F1	7200	2600	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Acenaphthene	3700	U F1 F2	3700	550	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Acenaphthylene	3700	U	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Acetophenone	3700	U	3700	500	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Anthracene	3700	U F1 F2	3700	920	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Atrazine	3700	U	3700	1300	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Benzaldehyde	3700	U	3700	2900	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Benzo[a]anthracene	**1000**	**J F1 F2**	3700	370	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Benzo[a]pyrene	**1100**	**J F1 F2**	3700	550	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Benzo[b]fluoranthene	**1300**	**J F1 F2**	3700	590	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Benzo[g,h,i]perylene	**720**	**J F1 F2**	3700	390	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Benzo[k]fluoranthene	**520**	**J F1 F2**	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Biphenyl	3700	U	3700	550	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
bis (2-chloroisopropyl) ether	3700	U	3700	740	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Bis(2-chloroethoxy)methane	3700	U	3700	790	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Bis(2-chloroethyl)ether	3700	U	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Bis(2-ethylhexyl) phthalate	3700	U F1	3700	1300	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Butyl benzyl phthalate	3700	U F1	3700	610	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Caprolactam	3700	U F2	3700	1100	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Carbazole	3700	U F1 F2	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Chrysene	**980**	**J F1 F2**	3700	830	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Dibenz(a,h)anthracene	3700	U F1 F2	3700	660	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20

Client Sample ID: VP-1 (2-4')
Date Collected: 10/29/24 14:00
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-5
Matrix: Solid
Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	3700	U F1 F2	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Diethyl phthalate	3700	U F2	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Dimethyl phthalate	3700	U	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Di-n-butyl phthalate	3700	U	3700	630	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Di-n-octyl phthalate	3700	U F1	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Fluoranthene	**2300**	**J F1 F2**	3700	390	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Fluorene	3700	U F1 F2	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Hexachlorobenzene	3700	U	3700	500	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Hexachlorobutadiene	3700	U	3700	550	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Hexachlorocyclopentadiene	3700	U	3700	500	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Hexachloroethane	3700	U	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Indeno[1,2,3-cd]pyrene	**550**	**J F1 F2**	3700	460	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Isophorone	3700	U	3700	790	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Naphthalene	3700	U F1 F2	3700	480	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Nitrobenzene	3700	U	3700	410	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
N-Nitrosodi-n-propylamine	3700	U	3700	630	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
N-Nitrosodiphenylamine	3700	U	3700	3000	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Pentachlorophenol	7200	U	7200	3700	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Phenanthrene	**1300**	**J F1 F2**	3700	550	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Phenol	3700	U	3700	570	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20
Pyrene	**1800**	**J F1 F2**	3700	440	ug/Kg	☼	10/30/24 17:31	10/31/24 19:46	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*26 - 143*	*10/30/24 17:31*	*10/31/24 19:46*	*20*
2-Fluorobiphenyl (Surr)	*82*		*50 - 121*	*10/30/24 17:31*	*10/31/24 19:46*	*20*
2-Fluorophenol (Surr)	*70*		*36 - 120*	*10/30/24 17:31*	*10/31/24 19:46*	*20*
Nitrobenzene-d5 (Surr)	*85*		*40 - 121*	*10/30/24 17:31*	*10/31/24 19:46*	*20*
Phenol-d5 (Surr)	*71*		*41 - 120*	*10/30/24 17:31*	*10/31/24 19:46*	*20*
p-Terphenyl-d14 (Surr)	*95*		*46 - 143*	*10/30/24 17:31*	*10/31/24 19:46*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	9.1	U	9.1	1.8	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
4,4'-DDE	9.1	U F2	9.1	1.9	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
4,4'-DDT	**5.8**	**J B**	9.1	2.1	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
Aldrin	9.1	U	9.1	2.2	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
alpha-BHC	9.1	U	9.1	1.6	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
beta-BHC	9.1	U	9.1	1.6	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
Chlordane (.alpha.)	9.1	U	9.1	4.5	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
delta-BHC	**2.0**	**J**	9.1	1.7	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
Dieldrin	9.1	U	9.1	2.2	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
Endosulfan I	9.1	U	9.1	1.7	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
Endosulfan II	9.1	U	9.1	1.6	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
Endosulfan sulfate	9.1	U	9.1	1.7	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
Endrin	9.1	U	9.1	1.8	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
Heptachlor	9.1	U	9.1	2.0	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5
Lindane	9.1	U	9.1	1.7	ug/Kg	☼	10/31/24 06:36	11/01/24 10:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*45 - 120*	*10/31/24 06:36*	*11/01/24 10:52*	*5*

Client Sample ID: VP-1 (2-4')
Date Collected: 10/29/24 14:00
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-5
Matrix: Solid
Percent Solids: 91.2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*208*	*S1+*	*45 - 120*	*10/31/24 06:36*	*11/01/24 10:52*	*5*
Tetrachloro-m-xylene	*77*		*30 - 124*	*10/31/24 06:36*	*11/01/24 10:52*	*5*
Tetrachloro-m-xylene	*88*		*30 - 124*	*10/31/24 06:36*	*11/01/24 10:52*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.26	U	0.26	0.052	mg/Kg	☼	10/31/24 09:17	11/02/24 04:00	1
PCB-1221	0.26	U	0.26	0.052	mg/Kg	☼	10/31/24 09:17	11/02/24 04:00	1
PCB-1232	0.26	U	0.26	0.052	mg/Kg	☼	10/31/24 09:17	11/02/24 04:00	1
PCB-1242	0.26	U	0.26	0.052	mg/Kg	☼	10/31/24 09:17	11/02/24 04:00	1
PCB-1248	0.26	U	0.26	0.052	mg/Kg	☼	10/31/24 09:17	11/02/24 04:00	1
PCB-1254	0.26	U	0.26	0.12	mg/Kg	☼	10/31/24 09:17	11/02/24 04:00	1
PCB-1260	0.26	U	0.26	0.12	mg/Kg	☼	10/31/24 09:17	11/02/24 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*60 - 154*	*10/31/24 09:17*	*11/02/24 04:00*	*1*
Tetrachloro-m-xylene	*90*		*60 - 154*	*10/31/24 09:17*	*11/02/24 04:00*	*1*
DCB Decachlorobiphenyl	*82*		*65 - 174*	*10/31/24 09:17*	*11/02/24 04:00*	*1*
DCB Decachlorobiphenyl	*99*		*65 - 174*	*10/31/24 09:17*	*11/02/24 04:00*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	18	U	18	6.5	ug/Kg	☼	11/03/24 06:56	11/05/24 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*78*		*28 - 129*	*11/03/24 06:56*	*11/05/24 14:27*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*11/03/24 06:56*	*11/05/24 14:27*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.74	U	0.74	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluoropentanoic acid (PFPeA)	0.37	U	0.37	0.092	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorooctanesulfonic acid (PFOS)	**0.11**	**J**	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1

Client Sample ID: VP-1 (2-4')
Lab Sample ID: 480-224950-5
Date Collected: 10/29/24 14:00
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 91.2

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.74	U	0.74	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.74	U	0.74	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.74	U	0.74	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.46	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.46	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.74	U	0.74	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.74	U	0.74	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U	0.37	0.092	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U	0.37	0.092	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.74	U	0.74	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.74	U	0.74	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U	0.37	0.092	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.92	U	0.92	0.23	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.6	U	4.6	1.1	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.6	U	4.6	1.1	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.046	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U	0.37	0.092	ug/Kg	☼	11/01/24 07:50	11/02/24 18:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:36*	*1*
13C5 PFPeA	*83.6*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:36*	*1*
13C5 PFHxA	*88.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:36*	*1*
13C4 PFHpA	*90.1*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:36*	*1*
13C8 PFOA	*87.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:36*	*1*
13C9 PFNA	*89.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:36*	*1*
13C6 PFDA	*86.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:36*	*1*
13C7 PFUnA	*85.7*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:36*	*1*
13C2 PFTeDA	*83.0*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:36*	*1*

Client Sample ID: VP-1 (2-4')
Date Collected: 10/29/24 14:00
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-5
Matrix: Solid
Percent Solids: 91.2

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	88.7		20 - 150	11/01/24 07:50	11/02/24 18:36	1
13C3 PFHxS	83.9		20 - 150	11/01/24 07:50	11/02/24 18:36	1
13C8 PFOS	82.6		20 - 150	11/01/24 07:50	11/02/24 18:36	1
13C8 PFOSA	70.5		20 - 150	11/01/24 07:50	11/02/24 18:36	1
d3-NMeFOSAA	77.0		20 - 150	11/01/24 07:50	11/02/24 18:36	1
d5-NEtFOSAA	86.7		20 - 150	11/01/24 07:50	11/02/24 18:36	1
M2-4:2 FTS	107		20 - 150	11/01/24 07:50	11/02/24 18:36	1
M2-6:2 FTS	104		20 - 150	11/01/24 07:50	11/02/24 18:36	1
M2-8:2 FTS	92.6		20 - 150	11/01/24 07:50	11/02/24 18:36	1
13C3 HFPO-DA	90.2		20 - 150	11/01/24 07:50	11/02/24 18:36	1
d7-N-MeFOSE-M	67.1		20 - 150	11/01/24 07:50	11/02/24 18:36	1
d9-N-EtFOSE-M	64.2		20 - 150	11/01/24 07:50	11/02/24 18:36	1
d5-NEtPFOSA	59.0		20 - 150	11/01/24 07:50	11/02/24 18:36	1
D3-NMeFOSA	63.3		20 - 150	11/01/24 07:50	11/02/24 18:36	1
13C2-PFDoDA	88.5		20 - 150	11/01/24 07:50	11/02/24 18:36	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3480**	**F1**	10.8	9.3	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Antimony	16.2	U F1	16.2	0.57	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Arsenic	**2.3**	**F1**	2.2	0.95	mg/Kg	☼	10/30/24 15:30	11/04/24 13:12	1
Barium	**44.0**	**F1**	0.54	0.15	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Beryllium	**0.15**	**J F1**	0.22	0.043	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Cadmium	**0.65**	**F1**	0.22	0.076	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Calcium	**131000**		270	146	mg/Kg	☼	10/30/24 15:30	11/01/24 15:39	5
Chromium	**4.6**	**F1**	0.54	0.39	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Cobalt	**1.9**	**F1**	0.54	0.11	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Copper	**37.3**	**F1 F2**	1.1	0.62	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Iron	**4740**		10.8	9.2	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Lead	**68.9**	**F1**	1.1	0.50	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Magnesium	**68800**		108	45.8	mg/Kg	☼	10/30/24 15:30	11/01/24 15:39	5
Manganese	**378**	**F1**	1.1	0.30	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Nickel	**4.1**	**J F1**	5.4	0.27	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Potassium	**943**		32.4	26.2	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Selenium	4.3	U F1	4.3	0.86	mg/Kg	☼	10/30/24 15:30	11/04/24 13:12	1
Silver	0.65	U F1	0.65	0.22	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Sodium	**186**		151	66.3	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Thallium	6.5	U F1	6.5	0.82	mg/Kg	☼	10/30/24 15:30	11/04/24 13:12	1
Vanadium	**7.5**	**F1**	0.54	0.14	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1
Zinc	**205**	**F1**	2.2	1.1	mg/Kg	☼	10/30/24 15:30	11/01/24 15:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.022	0.0051	mg/Kg	☼	10/31/24 09:44	10/31/24 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.93	mg/Kg	☼	11/12/24 09:00	11/12/24 11:00	1
Cyanide, Total (SW846 9012B)	1.1	U F1	1.1	0.52	mg/Kg	☼	11/05/24 14:00	11/05/24 17:46	1

Client Sample ID: VP-3 (2-4')
Lab Sample ID: 480-224950-7
Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.4	U F1 vs	5.4	0.39	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,1,2,2-Tetrachloroethane	5.4	U F1 vs	5.4	0.87	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,1,2-Trichloroethane	5.4	U vs	5.4	0.70	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	5.4	1.2	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,1-Dichloroethane	5.4	U vs	5.4	0.66	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,1-Dichloroethene	5.4	U vs	5.4	0.66	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,2,4-Trichlorobenzene	5.4	U F1 vs	5.4	0.33	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,2-Dibromo-3-Chloropropane	5.4	U F1 vs	5.4	2.7	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,2-Dichlorobenzene	5.4	U F1 vs	5.4	0.42	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,2-Dichloroethane	5.4	U vs	5.4	0.27	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,2-Dichloropropane	5.4	U vs	5.4	2.7	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,3-Dichlorobenzene	5.4	U F1 vs	5.4	0.28	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,4-Dichlorobenzene	5.4	U F1 vs	5.4	0.75	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
2-Butanone (MEK)	27	U F1 vs	27	2.0	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
2-Hexanone	27	U vs	27	2.7	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.8	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Acetone	27	U vs	27	4.5	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Benzene	5.4	U vs	5.4	0.26	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Bromodichloromethane	5.4	U F1 vs	5.4	0.72	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Bromoform	5.4	U F1 vs	5.4	2.7	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Bromomethane	5.4	U vs	5.4	0.48	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Carbon disulfide	5.4	U vs	5.4	2.7	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Carbon tetrachloride	5.4	U F1 vs	5.4	0.52	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Chlorobenzene	5.4	U F1 vs	5.4	0.71	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Dibromochloromethane	5.4	U F1 vs	5.4	0.69	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Chloroethane	5.4	U vs	5.4	1.2	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Chloroform	**0.62**	**J B F1 vs**	5.4	0.33	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Chloromethane	5.4	U vs	5.4	0.32	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
cis-1,2-Dichloroethene	5.4	U F1 vs	5.4	0.69	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
cis-1,3-Dichloropropene	5.4	U F1 vs	5.4	0.77	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Cyclohexane	5.4	U vs	5.4	0.75	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Dichlorodifluoromethane	5.4	U vs	5.4	0.44	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Ethylbenzene	5.4	U F1 vs	5.4	0.37	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
1,2-Dibromoethane	5.4	U F1 vs	5.4	0.69	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Isopropylbenzene	5.4	U F1 vs	5.4	0.81	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Methyl acetate	27	U vs	27	3.2	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Methyl tert-butyl ether	5.4	U vs	5.4	0.53	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Methylcyclohexane	5.4	U F1 vs	5.4	0.82	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Methylene Chloride	5.4	U vs	5.4	2.5	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Styrene	5.4	U F1 vs	5.4	0.27	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Tetrachloroethene	5.4	U F1 vs	5.4	0.72	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Toluene	**0.77**	**J vs**	5.4	0.41	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
trans-1,2-Dichloroethene	5.4	U F1 vs	5.4	0.55	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
trans-1,3-Dichloropropene	5.4	U F1 vs	5.4	2.4	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Trichloroethene	5.4	U F1 vs	5.4	1.2	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Trichlorofluoromethane	5.4	U vs	5.4	0.51	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Vinyl chloride	5.4	U vs	5.4	0.66	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1
Xylenes, Total	11	U vs	11	0.90	ug/Kg	☼	11/03/24 16:35	11/03/24 20:33	1

Client Sample ID: VP-3 (2-4')
Date Collected: 10/29/24 15:30
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-7
Matrix: Solid
Percent Solids: 91.4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	11/03/24 16:35	11/03/24 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		71 - 125	11/03/24 16:35	11/03/24 20:33	1
1,2-Dichloroethane-d4 (Surr)	93		64 - 126	11/03/24 16:35	11/03/24 20:33	1
4-Bromofluorobenzene (Surr)	82		72 - 126	11/03/24 16:35	11/03/24 20:33	1
Dibromofluoromethane (Surr)	93		60 - 140	11/03/24 16:35	11/03/24 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	11000	U	11000	5900	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2,4,5-Trichlorophenol	18000	U	18000	5000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2,4,6-Trichlorophenol	18000	U	18000	3700	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2,4-Dichlorophenol	18000	U	18000	1900	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2,4-Dimethylphenol	18000	U	18000	4400	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2,4-Dinitrophenol	180000	U	180000	85000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2,4-Dinitrotoluene	18000	U	18000	3800	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2,6-Dinitrotoluene	18000	U	18000	2200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2-Chloronaphthalene	18000	U	18000	3000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2-Chlorophenol	36000	U	36000	3300	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2-Methylnaphthalene	18000	U	18000	3700	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2-Methylphenol	18000	U	18000	2200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2-Nitroaniline	36000	U	36000	2700	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
2-Nitrophenol	18000	U	18000	5200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
3,3'-Dichlorobenzidine	36000	U	36000	22000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
3-Nitroaniline	36000	U	36000	5100	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
4,6-Dinitro-2-methylphenol	36000	U	36000	18000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
4-Bromophenyl phenyl ether	18000	U	18000	2600	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
4-Chloro-3-methylphenol	18000	U	18000	4500	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
4-Chloroaniline	18000	U	18000	4500	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
4-Chlorophenyl phenyl ether	18000	U	18000	2300	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
4-Methylphenol	36000	U	36000	2200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
4-Nitroaniline	36000	U	36000	9600	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
4-Nitrophenol	36000	U	36000	13000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Acenaphthene	18000	U	18000	2700	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Acenaphthylene	18000	U	18000	2400	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Acetophenone	18000	U	18000	2500	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Anthracene	18000	U	18000	4500	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Atrazine	18000	U	18000	6400	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Benzaldehyde	18000	U	18000	15000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Benzo[a]anthracene	**2500**	**J F1 F2**	18000	1800	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Benzo[a]pyrene	18000	U F2	18000	2700	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Benzo[b]fluoranthene	18000	U	18000	2900	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Benzo[g,h,i]perylene	18000	U	18000	1900	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Benzo[k]fluoranthene	18000	U	18000	2400	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Biphenyl	18000	U	18000	2700	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
bis (2-chloroisopropyl) ether	18000	U	18000	3700	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Bis(2-chloroethoxy)methane	18000	U	18000	3900	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Bis(2-chloroethyl)ether	18000	U	18000	2400	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Bis(2-ethylhexyl) phthalate	18000	U	18000	6300	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10

Client Sample ID: VP-3 (2-4')
Lab Sample ID: 480-224950-7
Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	18000	U	18000	3000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Caprolactam	18000	U	18000	5500	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Carbazole	18000	U	18000	2200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Chrysene	18000	U	18000	4100	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Dibenz(a,h)anthracene	18000	U	18000	3200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Dibenzofuran	18000	U	18000	2200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Diethyl phthalate	18000	U	18000	2400	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Dimethyl phthalate	18000	U	18000	2200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Di-n-butyl phthalate	18000	U	18000	3100	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Di-n-octyl phthalate	18000	U	18000	2200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Fluoranthene	**5700**	**J F2**	18000	1900	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Fluorene	18000	U	18000	2200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Hexachlorobenzene	18000	U	18000	2500	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Hexachlorobutadiene	18000	U	18000	2700	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Hexachlorocyclopentadiene	18000	U	18000	2500	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Hexachloroethane	18000	U	18000	2400	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Indeno[1,2,3-cd]pyrene	18000	U	18000	2300	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Isophorone	18000	U	18000	3900	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Naphthalene	18000	U	18000	2400	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Nitrobenzene	18000	U	18000	2100	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
N-Nitrosodi-n-propylamine	18000	U	18000	3100	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
N-Nitrosodiphenylamine	18000	U	18000	15000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Pentachlorophenol	36000	U	36000	18000	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Phenanthrene	**4000**	**J F1**	18000	2700	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Phenol	18000	U	18000	2800	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10
Pyrene	**4300**	**J F1**	18000	2200	ug/Kg	☼	10/30/24 17:31	10/31/24 20:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*26 - 143*	*10/30/24 17:31*	*10/31/24 20:11*	*10*
2-Fluorobiphenyl (Surr)	*95*		*50 - 121*	*10/30/24 17:31*	*10/31/24 20:11*	*10*
2-Fluorophenol (Surr)	*0*	*S1-*	*36 - 120*	*10/30/24 17:31*	*10/31/24 20:11*	*10*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*40 - 121*	*10/30/24 17:31*	*10/31/24 20:11*	*10*
Phenol-d5 (Surr)	*48*		*41 - 120*	*10/30/24 17:31*	*10/31/24 20:11*	*10*
p-Terphenyl-d14 (Surr)	*101*		*46 - 143*	*10/30/24 17:31*	*10/31/24 20:11*	*10*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	91	U F1	91	18	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
4,4'-DDE	91	U	91	19	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
4,4'-DDT	**40**	**J B**	91	21	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
Aldrin	91	U	91	22	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
alpha-BHC	91	U F1	91	16	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
beta-BHC	91	U F1	91	16	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
Chlordane (.alpha.)	91	U	91	45	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
delta-BHC	91	U F1	91	17	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
Dieldrin	91	U	91	22	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
Endosulfan I	91	U F1	91	17	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
Endosulfan II	91	U F1	91	16	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
Endosulfan sulfate	91	U F1	91	17	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
Endrin	91	U F1	91	18	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50

Client Sample ID: VP-3 (2-4')
Date Collected: 10/29/24 15:30
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-7
Matrix: Solid
Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	91	U	91	20	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50
Lindane	91	U F1	91	17	ug/Kg	☼	10/31/24 06:36	11/01/24 11:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*10/31/24 06:36*	*11/01/24 11:12*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*10/31/24 06:36*	*11/01/24 11:12*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*10/31/24 06:36*	*11/01/24 11:12*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*10/31/24 06:36*	*11/01/24 11:12*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.24	U	0.24	0.047	mg/Kg	☼	10/31/24 09:17	11/02/24 04:18	1
PCB-1221	0.24	U	0.24	0.047	mg/Kg	☼	10/31/24 09:17	11/02/24 04:18	1
PCB-1232	0.24	U	0.24	0.047	mg/Kg	☼	10/31/24 09:17	11/02/24 04:18	1
PCB-1242	0.24	U	0.24	0.047	mg/Kg	☼	10/31/24 09:17	11/02/24 04:18	1
PCB-1248	0.24	U	0.24	0.047	mg/Kg	☼	10/31/24 09:17	11/02/24 04:18	1
PCB-1254	0.24	U	0.24	0.11	mg/Kg	☼	10/31/24 09:17	11/02/24 04:18	1
PCB-1260	0.24	U	0.24	0.11	mg/Kg	☼	10/31/24 09:17	11/02/24 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*60 - 154*	*10/31/24 09:17*	*11/02/24 04:18*	*1*
Tetrachloro-m-xylene	*75*		*60 - 154*	*10/31/24 09:17*	*11/02/24 04:18*	*1*
DCB Decachlorobiphenyl	*66*		*65 - 174*	*10/31/24 09:17*	*11/02/24 04:18*	*1*
DCB Decachlorobiphenyl	*79*		*65 - 174*	*10/31/24 09:17*	*11/02/24 04:18*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	18	U	18	6.4	ug/Kg	☼	11/03/24 06:56	11/05/24 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*58*		*28 - 129*	*11/03/24 06:56*	*11/05/24 14:46*	*1*
2,4-Dichlorophenylacetic acid	*58*		*28 - 129*	*11/03/24 06:56*	*11/05/24 14:46*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluoropentanoic acid (PFPeA)	0.36	U	0.36	0.089	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1

Client Sample ID: VP-3 (2-4')
Date Collected: 10/29/24 15:30
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-7
Matrix: Solid
Percent Solids: 91.4

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorooctanesulfonic acid (PFOS)	**0.10**	**J**	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.44	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.44	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	0.36	0.089	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	0.36	0.089	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.71	U	0.71	0.18	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	0.36	0.089	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.89	U	0.89	0.22	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	4.4	1.1	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.4	U	4.4	1.1	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.044	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	0.36	0.089	ug/Kg	☼	11/01/24 07:50	11/02/24 18:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:19*	*1*
13C5 PFPeA	*81.9*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:19*	*1*
13C5 PFHxA	*86.1*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:19*	*1*
13C4 PFHpA	*86.7*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:19*	*1*
13C8 PFOA	*87.1*		*20 - 150*	*11/01/24 07:50*	*11/02/24 18:19*	*1*

Client Sample ID: VP-3 (2-4')
Date Collected: 10/29/24 15:30
Date Received: 10/30/24 16:22

Lab Sample ID: 480-224950-7
Matrix: Solid
Percent Solids: 91.4

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	88.4		20 - 150	11/01/24 07:50	11/02/24 18:19	1
13C6 PFDA	85.4		20 - 150	11/01/24 07:50	11/02/24 18:19	1
13C7 PFUnA	85.3		20 - 150	11/01/24 07:50	11/02/24 18:19	1
13C2 PFTeDA	94.7		20 - 150	11/01/24 07:50	11/02/24 18:19	1
13C3 PFBS	86.5		20 - 150	11/01/24 07:50	11/02/24 18:19	1
13C3 PFHxS	85.1		20 - 150	11/01/24 07:50	11/02/24 18:19	1
13C8 PFOS	86.0		20 - 150	11/01/24 07:50	11/02/24 18:19	1
13C8 PFOSA	68.9		20 - 150	11/01/24 07:50	11/02/24 18:19	1
d3-NMeFOSAA	79.3		20 - 150	11/01/24 07:50	11/02/24 18:19	1
d5-NEtFOSAA	90.8		20 - 150	11/01/24 07:50	11/02/24 18:19	1
M2-4:2 FTS	102		20 - 150	11/01/24 07:50	11/02/24 18:19	1
M2-6:2 FTS	107		20 - 150	11/01/24 07:50	11/02/24 18:19	1
M2-8:2 FTS	109		20 - 150	11/01/24 07:50	11/02/24 18:19	1
13C3 HFPO-DA	87.0		20 - 150	11/01/24 07:50	11/02/24 18:19	1
d7-N-MeFOSE-M	66.8		20 - 150	11/01/24 07:50	11/02/24 18:19	1
d9-N-EtFOSE-M	65.7		20 - 150	11/01/24 07:50	11/02/24 18:19	1
d5-NEtPFOSA	63.9		20 - 150	11/01/24 07:50	11/02/24 18:19	1
D3-NMeFOSA	64.5		20 - 150	11/01/24 07:50	11/02/24 18:19	1
13C2-PFDoDA	89.8		20 - 150	11/01/24 07:50	11/02/24 18:19	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9050**		11.4	9.9	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Antimony	17.2	U F1 F2	17.2	0.61	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Arsenic	**4.0**	**F1**	2.3	1.0	mg/Kg	☼	10/30/24 15:30	11/04/24 13:30	1
Barium	**136**	**F1 F2**	0.57	0.16	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Beryllium	**0.36**	**F1 F2**	0.23	0.046	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Cadmium	**0.56**	**F1 F2**	0.23	0.080	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Calcium	**108000**	**F2**	286	155	mg/Kg	☼	10/30/24 15:30	11/01/24 16:23	5
Chromium	**12.3**	**F1 F2**	0.57	0.41	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Cobalt	**4.3**	**F1 F2**	0.57	0.11	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Copper	**21.5**	**F1 F2**	1.1	0.65	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Iron	**12200**	**F2**	11.4	9.7	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Lead	**176**	**F1 F2**	1.1	0.53	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Magnesium	**45500**	**F2**	22.9	9.7	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Manganese	**461**	**F1 F2**	1.1	0.32	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Nickel	**9.8**	**F1 F2**	5.7	0.29	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Potassium	**2300**	**F1 F2**	34.3	27.8	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Selenium	4.6	U F1	4.6	0.92	mg/Kg	☼	10/30/24 15:30	11/04/24 13:30	1
Silver	0.69	U F1 F2	0.69	0.23	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Sodium	**547**	**F1 F2**	160	70.2	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Thallium	6.9	U	6.9	0.87	mg/Kg	☼	10/30/24 15:30	11/04/24 13:30	1
Vanadium	**16.9**	**F1 F2**	0.57	0.15	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1
Zinc	**177**	**F1 F2**	2.3	1.2	mg/Kg	☼	10/30/24 15:30	11/01/24 16:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**4.5**		0.23	0.053	mg/Kg	☼	10/31/24 09:44	10/31/24 15:07	10

Client Sample ID: VP-3 (2-4')
Lab Sample ID: 480-224950-7

Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 91.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.93	mg/Kg	☼	11/12/24 09:00	11/12/24 11:00	1
Cyanide, Total (SW846 9012B)	0.99	U F1	0.99	0.48	mg/Kg	☼	11/05/24 14:00	11/05/24 17:57	1

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9

Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.5	U vs	5.5	0.40	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,1,2,2-Tetrachloroethane	5.5	U vs	5.5	0.89	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,1,2-Trichloroethane	5.5	U vs	5.5	0.71	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U vs	5.5	1.3	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,1-Dichloroethane	5.5	U vs	5.5	0.67	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,1-Dichloroethene	5.5	U vs	5.5	0.67	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,2,4-Trichlorobenzene	5.5	U vs	5.5	0.33	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,2-Dibromo-3-Chloropropane	5.5	U vs	5.5	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,2-Dichlorobenzene	5.5	U vs	5.5	0.43	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,2-Dichloroethane	5.5	U vs	5.5	0.28	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,2-Dichloropropane	5.5	U vs	5.5	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,3-Dichlorobenzene	5.5	U vs	5.5	0.28	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,4-Dichlorobenzene	5.5	U vs	5.5	0.77	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
2-Butanone (MEK)	27	U vs	27	2.0	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
2-Hexanone	27	U vs	27	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.8	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Acetone	27	U vs	27	4.6	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Benzene	5.5	U vs	5.5	0.27	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Bromodichloromethane	5.5	U vs	5.5	0.74	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Bromoform	5.5	U vs	5.5	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Bromomethane	5.5	U vs	5.5	0.49	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Carbon disulfide	5.5	U vs	5.5	2.7	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Carbon tetrachloride	5.5	U vs	5.5	0.53	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Chlorobenzene	5.5	U vs	5.5	0.73	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Dibromochloromethane	5.5	U vs	5.5	0.70	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Chloroethane	5.5	U vs	5.5	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Chloroform	**0.59**	**J B vs**	5.5	0.34	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Chloromethane	5.5	U vs	5.5	0.33	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
cis-1,2-Dichloroethene	5.5	U vs	5.5	0.70	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
cis-1,3-Dichloropropene	5.5	U vs	5.5	0.79	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Cyclohexane	5.5	U vs	5.5	0.77	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Dichlorodifluoromethane	5.5	U vs	5.5	0.45	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Ethylbenzene	5.5	U vs	5.5	0.38	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
1,2-Dibromoethane	5.5	U vs	5.5	0.71	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Isopropylbenzene	5.5	U vs	5.5	0.83	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Methyl acetate	27	U vs	27	3.3	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Methyl tert-butyl ether	5.5	U vs	5.5	0.54	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Methylcyclohexane	5.5	U vs	5.5	0.84	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Methylene Chloride	5.5	U vs	5.5	2.5	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Styrene	5.5	U vs	5.5	0.27	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Tetrachloroethene	5.5	U vs	5.5	0.74	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9
Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.99	J vs	5.5	0.42	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
trans-1,2-Dichloroethene	5.5	U vs	5.5	0.57	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
trans-1,3-Dichloropropene	5.5	U vs	5.5	2.4	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Trichloroethene	5.5	U vs	5.5	1.2	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Trichlorofluoromethane	5.5	U vs	5.5	0.52	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Vinyl chloride	5.5	U vs	5.5	0.67	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1
Xylenes, Total	11	U vs	11	0.92	ug/Kg	☼	11/03/24 16:37	11/03/24 23:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*11/03/24 16:37*	*11/03/24 23:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*71 - 125*	*11/03/24 16:37*	*11/03/24 23:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 126*	*11/03/24 16:37*	*11/03/24 23:38*	*1*
4-Bromofluorobenzene (Surr)	*91*		*72 - 126*	*11/03/24 16:37*	*11/03/24 23:38*	*1*
Dibromofluoromethane (Surr)	*93*		*60 - 140*	*11/03/24 16:37*	*11/03/24 23:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	110	U	110	61	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2,4,5-Trichlorophenol	190	U	190	51	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2,4,6-Trichlorophenol	190	U	190	38	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2,4-Dichlorophenol	190	U	190	20	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2,4-Dimethylphenol	190	U	190	45	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2,4-Dinitrophenol	1800	U	1800	870	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2,4-Dinitrotoluene	190	U	190	39	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2,6-Dinitrotoluene	190	U	190	22	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2-Chloronaphthalene	190	U	190	31	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2-Chlorophenol	370	U	370	34	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2-Methylnaphthalene	190	U	190	38	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2-Methylphenol	190	U	190	22	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2-Nitroaniline	370	U	370	28	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
2-Nitrophenol	190	U	190	53	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
3,3'-Dichlorobenzidine	370	U	370	220	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
3-Nitroaniline	370	U	370	52	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
4,6-Dinitro-2-methylphenol	370	U	370	190	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
4-Bromophenyl phenyl ether	190	U	190	27	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
4-Chloro-3-methylphenol	190	U	190	47	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
4-Chloroaniline	190	U	190	47	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
4-Chlorophenyl phenyl ether	190	U	190	23	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
4-Methylphenol	370	U	370	22	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
4-Nitroaniline	370	U	370	99	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
4-Nitrophenol	370	U	370	130	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Acenaphthene	190	U	190	28	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Acenaphthylene	190	U	190	24	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Acetophenone	190	U	190	26	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Anthracene	190	U	190	47	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Atrazine	190	U	190	65	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Benzaldehyde	190	U	190	150	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Benzo[a]anthracene	190	U	190	19	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9
Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	190	U	190	28	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Benzo[b]fluoranthene	190	U	190	30	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Benzo[g,h,i]perylene	190	U	190	20	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Benzo[k]fluoranthene	190	U	190	24	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Biphenyl	190	U	190	28	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
bis (2-chloroisopropyl) ether	190	U	190	38	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Bis(2-chloroethoxy)methane	190	U	190	40	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Bis(2-chloroethyl)ether	190	U	190	24	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Bis(2-ethylhexyl) phthalate	190	U	190	64	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Butyl benzyl phthalate	190	U	190	31	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Caprolactam	190	U	190	57	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Carbazole	190	U	190	22	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Chrysene	190	U	190	42	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Dibenz(a,h)anthracene	190	U	190	33	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Dibenzofuran	190	U	190	22	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Diethyl phthalate	190	U	190	24	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Dimethyl phthalate	190	U	190	22	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Di-n-butyl phthalate	190	U	190	32	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Di-n-octyl phthalate	190	U	190	22	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Fluoranthene	**27**	**J**	190	20	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Fluorene	190	U	190	22	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Hexachlorobenzene	190	U	190	26	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Hexachlorobutadiene	190	U	190	28	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Hexachlorocyclopentadiene	190	U	190	26	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Hexachloroethane	190	U	190	24	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Indeno[1,2,3-cd]pyrene	190	U	190	23	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Isophorone	190	U	190	40	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Naphthalene	190	U	190	24	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Nitrobenzene	190	U	190	21	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
N-Nitrosodi-n-propylamine	190	U	190	32	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
N-Nitrosodiphenylamine	190	U	190	150	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Pentachlorophenol	370	U	370	190	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Phenanthrene	190	U	190	28	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Phenol	190	U	190	29	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1
Pyrene	**22**	**J**	190	22	ug/Kg	☼	10/30/24 17:31	10/31/24 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*26 - 143*	*10/30/24 17:31*	*10/31/24 22:14*	*1*
2-Fluorobiphenyl (Surr)	*60*		*50 - 121*	*10/30/24 17:31*	*10/31/24 22:14*	*1*
2-Fluorophenol (Surr)	*56*		*36 - 120*	*10/30/24 17:31*	*10/31/24 22:14*	*1*
Nitrobenzene-d5 (Surr)	*56*		*40 - 121*	*10/30/24 17:31*	*10/31/24 22:14*	*1*
Phenol-d5 (Surr)	*60*		*41 - 120*	*10/30/24 17:31*	*10/31/24 22:14*	*1*
p-Terphenyl-d14 (Surr)	*88*		*46 - 143*	*10/30/24 17:31*	*10/31/24 22:14*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.9	U	1.9	0.36	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
4,4'-DDE	1.9	U	1.9	0.39	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
4,4'-DDT	**0.95**	**J B**	1.9	0.44	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
Aldrin	1.9	U	1.9	0.46	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9
Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	1.9	U	1.9	0.34	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
beta-BHC	1.9	U	1.9	0.34	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
Chlordane (.alpha.)	1.9	U	1.9	0.93	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
delta-BHC	1.9	U	1.9	0.35	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
Dieldrin	1.9	U	1.9	0.45	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
Endosulfan I	1.9	U	1.9	0.36	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
Endosulfan II	1.9	U	1.9	0.34	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
Endosulfan sulfate	1.9	U	1.9	0.35	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
Endrin	1.9	U	1.9	0.37	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
Heptachlor	1.9	U	1.9	0.40	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1
Lindane	1.9	U	1.9	0.34	ug/Kg	☼	10/31/24 06:36	11/01/24 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*45 - 120*	*10/31/24 06:36*	*11/01/24 12:50*	*1*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*10/31/24 06:36*	*11/01/24 12:50*	*1*
Tetrachloro-m-xylene	*65*		*30 - 124*	*10/31/24 06:36*	*11/01/24 12:50*	*1*
Tetrachloro-m-xylene	*76*		*30 - 124*	*10/31/24 06:36*	*11/01/24 12:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.28	U	0.28	0.054	mg/Kg	☼	10/31/24 09:17	11/02/24 06:26	1
PCB-1221	0.28	U	0.28	0.054	mg/Kg	☼	10/31/24 09:17	11/02/24 06:26	1
PCB-1232	0.28	U	0.28	0.054	mg/Kg	☼	10/31/24 09:17	11/02/24 06:26	1
PCB-1242	0.28	U	0.28	0.054	mg/Kg	☼	10/31/24 09:17	11/02/24 06:26	1
PCB-1248	0.28	U	0.28	0.054	mg/Kg	☼	10/31/24 09:17	11/02/24 06:26	1
PCB-1254	0.28	U	0.28	0.13	mg/Kg	☼	10/31/24 09:17	11/02/24 06:26	1
PCB-1260	0.28	U	0.28	0.13	mg/Kg	☼	10/31/24 09:17	11/02/24 06:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*60 - 154*	*10/31/24 09:17*	*11/02/24 06:26*	*1*
Tetrachloro-m-xylene	*89*		*60 - 154*	*10/31/24 09:17*	*11/02/24 06:26*	*1*
DCB Decachlorobiphenyl	*86*		*65 - 174*	*10/31/24 09:17*	*11/02/24 06:26*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*10/31/24 09:17*	*11/02/24 06:26*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	19	U	19	6.7	ug/Kg	☼	11/03/24 06:56	11/05/24 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*	*11/03/24 06:56*	*11/05/24 16:37*	*1*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*	*11/03/24 06:56*	*11/05/24 16:37*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.74	U	0.74	0.19	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluoropentanoic acid (PFPeA)	0.37	U	0.37	0.093	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9
Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 88.3

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.74	U	0.74	0.19	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.74	U	0.74	0.19	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.74	U	0.74	0.19	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.46	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.46	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.74	U	0.74	0.19	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.74	U	0.74	0.19	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U	0.37	0.093	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U	0.37	0.093	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.74	U	0.74	0.19	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.74	U	0.74	0.19	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U	0.37	0.093	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.93	U	0.93	0.23	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.6	U	4.6	1.2	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.6	U	4.6	1.2	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.046	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9
Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 88.3

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U	0.37	0.093	ug/Kg	☼	11/01/24 07:51	11/02/24 21:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88.0*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C5 PFPeA	*77.3*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C5 PFHxA	*79.7*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C4 PFHpA	*79.4*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C8 PFOA	*80.4*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C9 PFNA	*79.6*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C6 PFDA	*80.1*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C7 PFUnA	*75.0*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C2 PFTeDA	*67.4*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C3 PFBS	*85.7*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C3 PFHxS	*79.0*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C8 PFOS	*78.9*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C8 PFOSA	*61.6*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
d3-NMeFOSAA	*74.0*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
d5-NEtFOSAA	*79.1*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
M2-4:2 FTS	*93.0*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
M2-6:2 FTS	*89.6*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
M2-8:2 FTS	*90.2*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C3 HFPO-DA	*82.1*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
d7-N-MeFOSE-M	*61.9*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
d9-N-EtFOSE-M	*59.8*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
d5-NEtPFOSA	*49.6*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
D3-NMeFOSA	*50.1*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*
13C2-PFDoDA	*76.4*		*20 - 150*	*11/01/24 07:51*	*11/02/24 21:22*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3390**		11.6	10	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Antimony	17.3	U	17.3	0.61	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Arsenic	**1.9**	**J**	2.3	1.0	mg/Kg	☼	10/30/24 15:30	11/04/24 13:35	1
Barium	**15.5**		0.58	0.16	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Beryllium	**0.14**	**J**	0.23	0.046	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Cadmium	**0.72**		0.23	0.081	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Calcium	**133000**		289	156	mg/Kg	☼	10/30/24 15:30	11/01/24 16:49	5
Chromium	**3.8**		0.58	0.42	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Cobalt	**1.7**		0.58	0.12	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Copper	**9.3**		1.2	0.66	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Iron	**4920**		11.6	9.8	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Lead	**47.2**		1.2	0.53	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Magnesium	**79000**		116	49.0	mg/Kg	☼	10/30/24 15:30	11/01/24 16:49	5
Manganese	**429**		1.2	0.32	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Nickel	**4.0**	**J**	5.8	0.29	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Potassium	**1100**		34.7	28.0	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Selenium	4.6	U	4.6	0.92	mg/Kg	☼	10/30/24 15:30	11/04/24 13:35	1
Silver	0.69	U	0.69	0.23	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Sodium	**166**		162	70.9	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Thallium	**1.0**	**J**	6.9	0.88	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9

Date Collected: 10/29/24 15:30
Matrix: Solid

Date Received: 10/30/24 16:22
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	7.0		0.58	0.15	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1
Zinc	156		2.3	1.2	mg/Kg	☼	10/30/24 15:30	11/01/24 16:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.022	0.0050	mg/Kg	☼	10/31/24 09:44	10/31/24 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.94	mg/Kg	☼	11/12/24 09:00	11/12/24 12:50	1
Cyanide, Total (SW846 9012B)	1.0	U	1.0	0.49	mg/Kg	☼	11/05/24 14:00	11/05/24 17:54	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-224950-1	BH-10 (2-4')	97	93	82	95
480-224950-2	VP-4 (2-4')	94	90	90	92
480-224950-3	VP-4 QA/QC (2-4')	94	93	90	93
480-224950-4	VP-2 (2-4')	92	91	91	95
480-224950-5	VP-1 (2-4')	97	88	88	90
480-224950-5 MS	VP-1 (2-4')	101	77	83	88
480-224950-5 MSD	VP-1 (2-4')	97	79	83	87
480-224950-7	VP-3 (2-4')	92	93	82	93
480-224950-7 MS	VP-3 (2-4')	90	82	82	90
480-224950-7 MSD	VP-3 (2-4')	91	79	81	88
480-224950-9	VP-3 Native (8-9')	93	92	91	93
LCS 480-730998/1-A	Lab Control Sample	90	90	85	90
LCS 480-730999/1-A	Lab Control Sample	93	90	92	97
MB 480-730998/2-A	Method Blank	88	94	83	91
MB 480-730999/2-A	Method Blank	91	90	96	96

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (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	PHL	TPHd14
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(41-120)	(46-143)
480-224950-1	BH-10 (2-4')	85	85	66	86	76	89
480-224950-2	VP-4 (2-4')	87	93	87	88	86	91
480-224950-3	VP-4 QA/QC (2-4')	58	48 S1-	44	44	47	63
480-224950-4	VP-2 (2-4')	71	53	57	53	58	74
480-224950-5	VP-1 (2-4')	100	82	70	85	71	95
480-224950-5 MS	VP-1 (2-4')	111	84	63	88	76	101
480-224950-5 MSD	VP-1 (2-4')	89	79	0 S1-	89	80	89
480-224950-7	VP-3 (2-4')	0 S1-	95	0 S1-	0 S1-	48	101
480-224950-7 MS	VP-3 (2-4')	0 S1-	85	0 S1-	166 S1+	63	100
480-224950-7 MSD	VP-3 (2-4')	236 S1+	91	0 S1-	155 S1+	66	98
480-224950-9	VP-3 Native (8-9')	75	60	56	56	60	88
LCS 480-730560/2-A	Lab Control Sample	92	86	88	82	90	92
MB 480-730560/1-A	Method Blank	92	86	90	81	94	90

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

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)
480-224950-1	BH-10 (2-4')	0 S1-	0 S1-	84	93
480-224950-2	VP-4 (2-4')	61	78	104	106
480-224950-3	VP-4 QA/QC (2-4')	69	94	108	92
480-224950-4	VP-2 (2-4')	65	92	71	84
480-224950-5	VP-1 (2-4')	77	208 S1+	77	88
480-224950-5 MS	VP-1 (2-4')	68	129 S1+	76	82
480-224950-5 MSD	VP-1 (2-4')	69	209 S1+	71	80
480-224950-7	VP-3 (2-4')	0 S1-	0 S1-	0 S1-	0 S1-
480-224950-7 MS	VP-3 (2-4')	0 S1-	0 S1-	0 S1-	0 S1-
480-224950-7 MSD	VP-3 (2-4')	0 S1-	0 S1-	0 S1-	0 S1-
480-224950-9	VP-3 Native (8-9')	65	87	65	76
LCS 480-730565/2-A	Lab Control Sample	57	94	62	73
MB 480-730565/1-A	Method Blank	45	78	54	63

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)
480-224950-1	BH-10 (2-4')	94	94	90	108
480-224950-2	VP-4 (2-4')	97	82	101	120
480-224950-3	VP-4 QA/QC (2-4')	101	102	96	113
480-224950-4	VP-2 (2-4')	103	105	100	119
480-224950-5	VP-1 (2-4')	89	90	82	99
480-224950-5 MS	VP-1 (2-4')	127	125	119	141
480-224950-5 MSD	VP-1 (2-4')	119	114	110	132
480-224950-7	VP-3 (2-4')	74	75	66	79
480-224950-7 MS	VP-3 (2-4')	114	117	107	126
480-224950-7 MSD	VP-3 (2-4')	116	116	107	127
480-224950-9	VP-3 Native (8-9')	93	89	86	108
LCS 480-730606/2-A	Lab Control Sample	143	138	138	165
MB 480-730606/1-A	Method Blank	133	128	135	160

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)
480-224950-1	BH-10 (2-4')	66	61
480-224950-2	VP-4 (2-4')	61	61
480-224950-3	VP-4 QA/QC (2-4')	72	71
480-224950-4	VP-2 (2-4')	73	74

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

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)										
480-224950-5	VP-1 (2-4')	78	74										
480-224950-5 MS	VP-1 (2-4')	70	72										
480-224950-5 MSD	VP-1 (2-4')	71	69										
480-224950-7	VP-3 (2-4')	58	58										
480-224950-7 MS	VP-3 (2-4')	46	43										
480-224950-7 MSD	VP-3 (2-4')	74	66										
480-224950-9	VP-3 Native (8-9')	77	77										
LCS 480-730964/2-A	Lab Control Sample	80	75										
MB 480-730964/1-A	Method Blank	83	82										

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

Method: Draft-3 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)
480-224950-1	BH-10 (2-4')	98.7	82.9	84.8	87.0	92.2	87.7	88.0	91.0
480-224950-2	VP-4 (2-4')	98.4	85.8	92.6	94.4	92.2	90.2	93.3	89.3
480-224950-3	VP-4 QA/QC (2-4')	93.7	84.0	85.7	90.8	85.8	91.0	87.7	84.6
480-224950-4	VP-2 (2-4')	99.7	88.0	88.1	94.4	95.3	89.9	93.3	88.3
480-224950-5	VP-1 (2-4')	95.3	83.6	88.2	90.1	87.2	89.2	86.3	85.7
480-224950-5 MS	VP-1 (2-4')	83.4	74.7	73.1	76.6	72.5	74.0	73.5	71.2
480-224950-5 MSD	VP-1 (2-4')	103	86.2	91.7	93.7	92.9	94.1	94.4	92.3
480-224950-7	VP-3 (2-4')	96.2	81.9	86.1	86.7	87.1	88.4	85.4	85.3
480-224950-7 MS	VP-3 (2-4')	97.5	81.7	87.8	89.5	85.0	87.6	82.9	84.6
480-224950-7 MSD	VP-3 (2-4')	99.3	82.8	87.0	91.7	89.2	89.6	89.6	83.0
480-224950-9	VP-3 Native (8-9')	88.0	77.3	79.7	79.4	80.4	79.6	80.1	75.0
480-224950-9 DU	VP-3 Native (8-9')	91.1	76.5	83.5	85.4	84.6	85.6	84.6	80.7
LCS 240-633445/3-A	Lab Control Sample	101	90.6	94.1	95.9	95.9	91.8	90.4	87.4
LLCS 240-633445/2-A	Lab Control Sample	92.3	76.9	79.1	82.5	84.9	85.9	80.4	82.2
MB 240-633445/1-A	Method Blank	102	93.1	96.3	99.1	100	96.0	99.2	96.8

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)
480-224950-1	BH-10 (2-4')	81.8	93.2	88.5	87.7	73.1	74.5	86.0	102
480-224950-2	VP-4 (2-4')	88.3	87.5	84.1	85.8	67.2	75.4	89.8	95.2
480-224950-3	VP-4 QA/QC (2-4')	88.2	89.4	84.8	84.3	68.2	73.7	92.5	98.9
480-224950-4	VP-2 (2-4')	76.2	88.2	87.9	85.6	71.3	82.2	91.9	101
480-224950-5	VP-1 (2-4')	83.0	88.7	83.9	82.6	70.5	77.0	86.7	107
480-224950-5 MS	VP-1 (2-4')	68.9	75.9	75.4	69.4	84.7	81.1	88.9	100
480-224950-5 MSD	VP-1 (2-4')	101	91.4	92.1	85.9	92.8	90.1	103	116
480-224950-7	VP-3 (2-4')	94.7	86.5	85.1	86.0	68.9	79.3	90.8	102
480-224950-7 MS	VP-3 (2-4')	99.4	90.4	86.1	81.8	68.1	73.2	86.3	104
480-224950-7 MSD	VP-3 (2-4')	83.8	91.4	89.8	86.1	65.1	72.9	83.3	101
480-224950-9	VP-3 Native (8-9')	67.4	85.7	79.0	78.9	61.6	74.0	79.1	93.0
480-224950-9 DU	VP-3 Native (8-9')	67.9	87.8	82.0	83.1	65.7	70.6	73.7	89.7
LCS 240-633445/3-A	Lab Control Sample	73.1	93.7	91.1	87.5	78.6	87.2	98.6	99.6
LLCS 240-633445/2-A	Lab Control Sample	68.3	86.2	81.6	81.7	71.0	77.9	92.6	93.5
MB 240-633445/1-A	Method Blank	83.4	104	98.2	95.1	83.7	94.8	142	107

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)
480-224950-1	BH-10 (2-4')	102	96.5	88.3	68.3	67.1	60.3	62.8	92.9
480-224950-2	VP-4 (2-4')	102	102	95.2	65.6	63.4	58.8	60.3	87.9
480-224950-3	VP-4 QA/QC (2-4')	97.1	97.9	89.5	66.2	65.5	55.8	56.0	89.3
480-224950-4	VP-2 (2-4')	99.2	109	94.3	68.9	68.0	58.9	57.1	87.3
480-224950-5	VP-1 (2-4')	104	92.6	90.2	67.1	64.2	59.0	63.3	88.5
480-224950-5 MS	VP-1 (2-4')	96.4	102	77.0	67.0	63.5	70.9	64.2	79.7
480-224950-5 MSD	VP-1 (2-4')	118	125	91.5	75.4	72.0	77.0	75.9	102
480-224950-7	VP-3 (2-4')	107	109	87.0	66.8	65.7	63.9	64.5	89.8
480-224950-7 MS	VP-3 (2-4')	99.8	102	86.5	64.2	62.8	64.5	62.8	92.1
480-224950-7 MSD	VP-3 (2-4')	100	102	89.3	72.7	69.9	59.8	57.5	83.3
480-224950-9	VP-3 Native (8-9')	89.6	90.2	82.1	61.9	59.8	49.6	50.1	76.4
480-224950-9 DU	VP-3 Native (8-9')	91.9	90.3	84.8	65.3	61.5	50.6	50.6	78.7
LCS 240-633445/3-A	Lab Control Sample	98.8	103	95.6	74.8	73.4	54.2	56.7	91.7

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

Method: Draft-3 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)
LLCS 240-633445/2-A	Lab Control Sample	91.6	91.2	83.4	68.2	64.2	52.3	50.6	80.6
MB 240-633445/1-A	Method Blank	113	108	98.7	80.6	78.5	68.4	66.3	96.9

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 480-730998/2-A
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730998

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
2-Hexanone	25	U	25	2.5	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Acetone	25	U	25	4.2	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Benzene	5.0	U	5.0	0.25	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Chloroform	0.643	J	5.0	0.31	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Chloromethane	5.0	U	5.0	0.30	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Methyl acetate	25	U	25	3.0	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Styrene	5.0	U	5.0	0.25	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Toluene	5.0	U	5.0	0.38	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Xylenes, Total	10	U	10	0.84	ug/Kg		11/03/24 16:35	11/03/24 20:09	1

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

Lab Sample ID: MB 480-730998/2-A
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730998

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	11/03/24 16:35	11/03/24 20:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		71 - 125	11/03/24 16:35	11/03/24 20:09	1
1,2-Dichloroethane-d4 (Surr)	94		64 - 126	11/03/24 16:35	11/03/24 20:09	1
4-Bromofluorobenzene (Surr)	83		72 - 126	11/03/24 16:35	11/03/24 20:09	1
Dibromofluoromethane (Surr)	91		60 - 140	11/03/24 16:35	11/03/24 20:09	1

Lab Sample ID: LCS 480-730998/1-A
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.4		ug/Kg		95	77 - 121
1,1,2,2-Tetrachloroethane	50.0	53.0		ug/Kg		106	80 - 120
1,1,2-Trichloroethane	50.0	48.8		ug/Kg		98	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.1		ug/Kg		98	60 - 140
1,1-Dichloroethane	50.0	50.5		ug/Kg		101	73 - 126
1,1-Dichloroethene	50.0	50.0		ug/Kg		100	59 - 125
1,2,4-Trichlorobenzene	50.0	45.7		ug/Kg		91	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	48.9		ug/Kg		98	63 - 124
1,2-Dichlorobenzene	50.0	48.6		ug/Kg		97	75 - 120
1,2-Dichloroethane	50.0	48.1		ug/Kg		96	77 - 122
1,2-Dichloropropane	50.0	49.9		ug/Kg		100	75 - 124
1,3-Dichlorobenzene	50.0	48.8		ug/Kg		98	74 - 120
1,4-Dichlorobenzene	50.0	47.9		ug/Kg		96	73 - 120
2-Butanone (MEK)	250	268		ug/Kg		107	70 - 134
2-Hexanone	250	288		ug/Kg		115	59 - 130
4-Methyl-2-pentanone (MIBK)	250	290		ug/Kg		116	65 - 133
Acetone	250	257		ug/Kg		103	61 - 137
Benzene	50.0	48.5		ug/Kg		97	79 - 127
Bromodichloromethane	50.0	45.3		ug/Kg		91	80 - 122
Bromoform	50.0	43.1		ug/Kg		86	68 - 126
Bromomethane	50.0	42.2		ug/Kg		84	37 - 149
Carbon disulfide	50.0	49.8		ug/Kg		100	64 - 131
Carbon tetrachloride	50.0	44.9		ug/Kg		90	75 - 135
Chlorobenzene	50.0	47.8		ug/Kg		96	76 - 124
Dibromochloromethane	50.0	47.5		ug/Kg		95	76 - 125
Chloroethane	50.0	48.4		ug/Kg		97	69 - 135
Chloroform	50.0	45.6		ug/Kg		91	80 - 120
Chloromethane	50.0	49.2		ug/Kg		98	63 - 127
cis-1,2-Dichloroethene	50.0	46.3		ug/Kg		93	81 - 120
cis-1,3-Dichloropropene	50.0	45.9		ug/Kg		92	80 - 120
Cyclohexane	50.0	54.9		ug/Kg		110	65 - 120
Dichlorodifluoromethane	50.0	40.0		ug/Kg		80	57 - 142
Ethylbenzene	50.0	49.6		ug/Kg		99	80 - 120
1,2-Dibromoethane	50.0	46.4		ug/Kg		93	78 - 120

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

Lab Sample ID: LCS 480-730998/1-A
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	50.0	49.3		ug/Kg		99	72 - 120
Methyl acetate	100	107		ug/Kg		107	55 - 136
Methyl tert-butyl ether	50.0	45.4		ug/Kg		91	63 - 125
Methylcyclohexane	50.0	49.8		ug/Kg		100	60 - 140
Methylene Chloride	50.0	47.5		ug/Kg		95	61 - 127
Styrene	50.0	47.4		ug/Kg		95	80 - 120
Tetrachloroethene	50.0	46.4		ug/Kg		93	74 - 122
Toluene	50.0	49.9		ug/Kg		100	74 - 128
trans-1,2-Dichloroethene	50.0	48.1		ug/Kg		96	78 - 126
trans-1,3-Dichloropropene	50.0	46.3		ug/Kg		93	73 - 123
Trichloroethene	50.0	46.9		ug/Kg		94	77 - 129
Trichlorofluoromethane	50.0	44.7		ug/Kg		89	65 - 146
Vinyl chloride	50.0	48.0		ug/Kg		96	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 126*
4-Bromofluorobenzene (Surr)	*85*		*72 - 126*
Dibromofluoromethane (Surr)	*90*		*60 - 140*

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	5.4	U F1 vs	53.0	44.1		ug/Kg	☼	83	77 - 121
1,1,2,2-Tetrachloroethane	5.4	U F1 vs	53.0	42.2		ug/Kg	☼	80	80 - 120
1,1,2-Trichloroethane	5.4	U vs	53.0	44.2		ug/Kg	☼	83	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	53.0	43.5		ug/Kg	☼	82	60 - 140
1,1-Dichloroethane	5.4	U vs	53.0	51.4		ug/Kg	☼	97	73 - 126
1,1-Dichloroethene	5.4	U vs	53.0	47.2		ug/Kg	☼	89	59 - 125
1,2,4-Trichlorobenzene	5.4	U F1 vs	53.0	20.1	F1	ug/Kg	☼	38	64 - 120
1,2-Dibromo-3-Chloropropane	5.4	U F1 vs	53.0	31.3	F1	ug/Kg	☼	59	63 - 124
1,2-Dichlorobenzene	5.4	U F1 vs	53.0	36.9	F1	ug/Kg	☼	70	75 - 120
1,2-Dichloroethane	5.4	U vs	53.0	46.2		ug/Kg	☼	87	77 - 122
1,2-Dichloropropane	5.4	U vs	53.0	49.9		ug/Kg	☼	94	75 - 124
1,3-Dichlorobenzene	5.4	U F1 vs	53.0	36.2	F1	ug/Kg	☼	68	74 - 120
1,4-Dichlorobenzene	5.4	U F1 vs	53.0	34.8	F1	ug/Kg	☼	66	73 - 120
2-Butanone (MEK)	27	U F1 vs	265	183	F1	ug/Kg	☼	69	70 - 134
2-Hexanone	27	U vs	265	200		ug/Kg	☼	76	59 - 130
4-Methyl-2-pentanone (MIBK)	27	U vs	265	215		ug/Kg	☼	81	65 - 133
Acetone	27	U vs	265	179		ug/Kg	☼	67	61 - 137
Benzene	5.4	U vs	53.0	47.7	vs	ug/Kg	☼	90	79 - 127
Bromodichloromethane	5.4	U F1 vs	53.0	44.1		ug/Kg	☼	83	80 - 122
Bromoform	5.4	U F1 vs	53.0	32.9	F1	ug/Kg	☼	62	68 - 126
Bromomethane	5.4	U vs	53.0	52.1		ug/Kg	☼	98	37 - 149
Carbon disulfide	5.4	U vs	53.0	42.8		ug/Kg	☼	81	64 - 131
Carbon tetrachloride	5.4	U F1 vs	53.0	39.6		ug/Kg	☼	75	75 - 135

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

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	5.4	U F1 vs	53.0	42.3		ug/Kg	☼	80	76 - 124
Dibromochloromethane	5.4	U F1 vs	53.0	42.0		ug/Kg	☼	79	76 - 125
Chloroethane	5.4	U vs	53.0	56.6		ug/Kg	☼	107	69 - 135
Chloroform	0.62	J B F1 vs	53.0	47.0		ug/Kg	☼	87	80 - 120
Chloromethane	5.4	U vs	53.0	56.6		ug/Kg	☼	107	63 - 127
cis-1,2-Dichloroethene	5.4	U F1 vs	53.0	45.4		ug/Kg	☼	86	80 - 120
cis-1,3-Dichloropropene	5.4	U F1 vs	53.0	41.1	F1	ug/Kg	☼	77	80 - 120
Cyclohexane	5.4	U vs	53.0	42.9		ug/Kg	☼	81	65 - 120
Dichlorodifluoromethane	5.4	U vs	53.0	44.5		ug/Kg	☼	84	57 - 142
Ethylbenzene	5.4	U F1 vs	53.0	42.8	vs	ug/Kg	☼	81	80 - 120
1,2-Dibromoethane	5.4	U F1 vs	53.0	37.9	F1	ug/Kg	☼	71	78 - 120
Isopropylbenzene	5.4	U F1 vs	53.0	40.4	vs	ug/Kg	☼	76	72 - 120
Methyl acetate	27	U vs	106	80.7		ug/Kg	☼	76	55 - 136
Methyl tert-butyl ether	5.4	U vs	53.0	42.2	vs	ug/Kg	☼	80	63 - 125
Methylcyclohexane	5.4	U F1 vs	53.0	29.8	F1	ug/Kg	☼	56	60 - 140
Methylene Chloride	5.4	U vs	53.0	50.3		ug/Kg	☼	95	61 - 127
Styrene	5.4	U F1 vs	53.0	40.1	F1	ug/Kg	☼	76	80 - 120
Tetrachloroethene	5.4	U F1 vs	53.0	38.4	F1	ug/Kg	☼	73	74 - 122
Toluene	0.77	J vs	53.0	47.1	vs	ug/Kg	☼	87	74 - 128
trans-1,2-Dichloroethene	5.4	U F1 vs	53.0	44.6		ug/Kg	☼	84	78 - 126
trans-1,3-Dichloropropene	5.4	U F1 vs	53.0	38.0	F1	ug/Kg	☼	72	73 - 123
Trichloroethene	5.4	U F1 vs	53.0	43.2		ug/Kg	☼	82	77 - 129
Trichlorofluoromethane	5.4	U vs	53.0	46.7		ug/Kg	☼	88	65 - 146
Vinyl chloride	5.4	U vs	53.0	51.3		ug/Kg	☼	97	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*82*		*64 - 126*
4-Bromofluorobenzene (Surr)	*82*		*72 - 126*
Dibromofluoromethane (Surr)	*90*		*60 - 140*

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	5.4	U F1 vs	54.3	38.9	F1	ug/Kg	☼	72	77 - 121	13	30
1,1,2,2-Tetrachloroethane	5.4	U F1 vs	54.3	40.3	F1	ug/Kg	☼	74	80 - 120	5	30
1,1,2-Trichloroethane	5.4	U vs	54.3	42.4		ug/Kg	☼	78	78 - 122	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	54.3	37.2		ug/Kg	☼	68	60 - 140	16	30
1,1-Dichloroethane	5.4	U vs	54.3	47.1		ug/Kg	☼	87	73 - 126	9	30
1,1-Dichloroethene	5.4	U vs	54.3	40.1		ug/Kg	☼	74	59 - 125	16	30
1,2,4-Trichlorobenzene	5.4	U F1 vs	54.3	18.5	F1	ug/Kg	☼	34	64 - 120	8	30
1,2-Dibromo-3-Chloropropane	5.4	U F1 vs	54.3	28.8	F1	ug/Kg	☼	53	63 - 124	8	30
1,2-Dichlorobenzene	5.4	U F1 vs	54.3	34.7	F1	ug/Kg	☼	64	75 - 120	6	30
1,2-Dichloroethane	5.4	U vs	54.3	43.1		ug/Kg	☼	79	77 - 122	7	30
1,2-Dichloropropane	5.4	U vs	54.3	46.3		ug/Kg	☼	85	75 - 124	7	30
1,3-Dichlorobenzene	5.4	U F1 vs	54.3	33.1	F1	ug/Kg	☼	61	74 - 120	9	30

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

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	5.4	U F1 vs	54.3	32.3	F1	ug/Kg	☼	60	73 - 120	7	30
2-Butanone (MEK)	27	U F1 vs	271	170	F1	ug/Kg	☼	63	70 - 134	8	30
2-Hexanone	27	U vs	271	187		ug/Kg	☼	69	59 - 130	7	30
4-Methyl-2-pentanone (MIBK)	27	U vs	271	204		ug/Kg	☼	75	65 - 133	5	30
Acetone	27	U vs	271	169		ug/Kg	☼	62	61 - 137	6	30
Benzene	5.4	U vs	54.3	43.3	vs	ug/Kg	☼	80	79 - 127	10	30
Bromodichloromethane	5.4	U F1 vs	54.3	41.6	F1	ug/Kg	☼	77	80 - 122	6	30
Bromoform	5.4	U F1 vs	54.3	31.6	F1	ug/Kg	☼	58	68 - 126	4	30
Bromomethane	5.4	U vs	54.3	45.7		ug/Kg	☼	84	37 - 149	13	30
Carbon disulfide	5.4	U vs	54.3	36.9		ug/Kg	☼	68	64 - 131	15	30
Carbon tetrachloride	5.4	U F1 vs	54.3	34.5	F1	ug/Kg	☼	64	75 - 135	14	30
Chlorobenzene	5.4	U F1 vs	54.3	40.3	F1	ug/Kg	☼	74	76 - 124	5	30
Dibromochloromethane	5.4	U F1 vs	54.3	40.6	F1	ug/Kg	☼	75	76 - 125	3	30
Chloroethane	5.4	U vs	54.3	48.7		ug/Kg	☼	90	69 - 135	15	30
Chloroform	0.62	J B F1 vs	54.3	43.2	F1	ug/Kg	☼	78	80 - 120	8	30
Chloromethane	5.4	U vs	54.3	51.3		ug/Kg	☼	95	63 - 127	10	30
cis-1,2-Dichloroethene	5.4	U F1 vs	54.3	41.4	F1	ug/Kg	☼	76	80 - 120	9	30
cis-1,3-Dichloropropene	5.4	U F1 vs	54.3	38.1	F1	ug/Kg	☼	70	80 - 120	7	30
Cyclohexane	5.4	U vs	54.3	35.6		ug/Kg	☼	66	65 - 120	18	30
Dichlorodifluoromethane	5.4	U vs	54.3	37.5		ug/Kg	☼	69	57 - 142	17	30
Ethylbenzene	5.4	U F1 vs	54.3	39.2	F1 vs	ug/Kg	☼	72	80 - 120	9	30
1,2-Dibromoethane	5.4	U F1 vs	54.3	36.6	F1	ug/Kg	☼	68	78 - 120	3	30
Isopropylbenzene	5.4	U F1 vs	54.3	35.9	F1 vs	ug/Kg	☼	66	72 - 120	12	30
Methyl acetate	27	U vs	109	75.9		ug/Kg	☼	70	55 - 136	6	30
Methyl tert-butyl ether	5.4	U vs	54.3	39.8	vs	ug/Kg	☼	73	63 - 125	6	30
Methylcyclohexane	5.4	U F1 vs	54.3	24.7	F1	ug/Kg	☼	45	60 - 140	19	30
Methylene Chloride	5.4	U vs	54.3	46.7		ug/Kg	☼	86	61 - 127	8	30
Styrene	5.4	U F1 vs	54.3	38.0	F1	ug/Kg	☼	70	80 - 120	6	30
Tetrachloroethene	5.4	U F1 vs	54.3	34.2	F1	ug/Kg	☼	63	74 - 122	12	30
Toluene	0.77	J vs	54.3	44.5	vs	ug/Kg	☼	81	74 - 128	6	30
trans-1,2-Dichloroethene	5.4	U F1 vs	54.3	39.6	F1	ug/Kg	☼	73	78 - 126	12	30
trans-1,3-Dichloropropene	5.4	U F1 vs	54.3	36.8	F1	ug/Kg	☼	68	73 - 123	3	30
Trichloroethene	5.4	U F1 vs	54.3	38.2	F1	ug/Kg	☼	70	77 - 129	12	30
Trichlorofluoromethane	5.4	U vs	54.3	39.3		ug/Kg	☼	73	65 - 146	17	30
Vinyl chloride	5.4	U vs	54.3	43.3		ug/Kg	☼	80	61 - 133	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*79*		*64 - 126*
4-Bromofluorobenzene (Surr)	*81*		*72 - 126*
Dibromofluoromethane (Surr)	*88*		*60 - 140*

Lab Sample ID: MB 480-730999/2-A
Matrix: Solid
Analysis Batch: 731001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		11/03/24 16:37	11/03/24 20:01	1

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

Lab Sample ID: MB 480-730999/2-A
Matrix: Solid
Analysis Batch: 731001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
2-Hexanone	25	U	25	2.5	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Acetone	25	U	25	4.2	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Benzene	5.0	U	5.0	0.25	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Chloroform	0.428	J	5.0	0.31	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Chloromethane	5.0	U	5.0	0.30	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Methyl acetate	25	U	25	3.0	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Styrene	5.0	U	5.0	0.25	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Toluene	5.0	U	5.0	0.38	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		11/03/24 16:37	11/03/24 20:01	1
Xylenes, Total	10	U	10	0.84	ug/Kg		11/03/24 16:37	11/03/24 20:01	1

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

Lab Sample ID: MB 480-730999/2-A
Matrix: Solid
Analysis Batch: 731001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730999

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	11/03/24 16:37	11/03/24 20:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		71 - 125	11/03/24 16:37	11/03/24 20:01	1
1,2-Dichloroethane-d4 (Surr)	90		64 - 126	11/03/24 16:37	11/03/24 20:01	1
4-Bromofluorobenzene (Surr)	96		72 - 126	11/03/24 16:37	11/03/24 20:01	1
Dibromofluoromethane (Surr)	96		60 - 140	11/03/24 16:37	11/03/24 20:01	1

Lab Sample ID: LCS 480-730999/1-A
Matrix: Solid
Analysis Batch: 731001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.1		ug/Kg		96	77 - 121
1,1,2,2-Tetrachloroethane	50.0	51.4		ug/Kg		103	80 - 120
1,1,2-Trichloroethane	50.0	48.7		ug/Kg		97	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.7		ug/Kg		99	60 - 140
1,1-Dichloroethane	50.0	49.2		ug/Kg		98	73 - 126
1,1-Dichloroethene	50.0	48.4		ug/Kg		97	59 - 125
1,2,4-Trichlorobenzene	50.0	52.4		ug/Kg		105	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	49.1		ug/Kg		98	63 - 124
1,2-Dichlorobenzene	50.0	49.7		ug/Kg		99	75 - 120
1,2-Dichloroethane	50.0	49.0		ug/Kg		98	77 - 122
1,2-Dichloropropane	50.0	47.8		ug/Kg		96	75 - 124
1,3-Dichlorobenzene	50.0	46.6		ug/Kg		93	74 - 120
1,4-Dichlorobenzene	50.0	46.6		ug/Kg		93	73 - 120
2-Butanone (MEK)	250	270		ug/Kg		108	70 - 134
2-Hexanone	250	251		ug/Kg		100	59 - 130
4-Methyl-2-pentanone (MIBK)	250	267		ug/Kg		107	65 - 133
Acetone	250	241		ug/Kg		96	61 - 137
Benzene	50.0	48.8		ug/Kg		98	79 - 127
Bromodichloromethane	50.0	47.7		ug/Kg		95	80 - 122
Bromoform	50.0	46.6		ug/Kg		93	68 - 126
Bromomethane	50.0	47.6		ug/Kg		95	37 - 149
Carbon disulfide	50.0	47.3		ug/Kg		95	64 - 131
Carbon tetrachloride	50.0	44.8		ug/Kg		90	75 - 135
Chlorobenzene	50.0	49.8		ug/Kg		100	76 - 124
Dibromochloromethane	50.0	47.9		ug/Kg		96	76 - 125
Chloroethane	50.0	48.2		ug/Kg		96	69 - 135
Chloroform	50.0	47.6		ug/Kg		95	80 - 120
Chloromethane	50.0	50.9		ug/Kg		102	63 - 127
cis-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	81 - 120
cis-1,3-Dichloropropene	50.0	45.4		ug/Kg		91	80 - 120
Cyclohexane	50.0	49.9		ug/Kg		100	65 - 120
Dichlorodifluoromethane	50.0	41.8		ug/Kg		84	57 - 142
Ethylbenzene	50.0	49.6		ug/Kg		99	80 - 120
1,2-Dibromoethane	50.0	49.8		ug/Kg		100	78 - 120

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

Lab Sample ID: LCS 480-730999/1-A
Matrix: Solid
Analysis Batch: 731001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	50.0	50.1		ug/Kg		100	72 - 120
Methyl acetate	100	104		ug/Kg		104	55 - 136
Methyl tert-butyl ether	50.0	51.8		ug/Kg		104	63 - 125
Methylcyclohexane	50.0	49.7		ug/Kg		99	60 - 140
Methylene Chloride	50.0	53.9		ug/Kg		108	61 - 127
Styrene	50.0	47.8		ug/Kg		96	80 - 120
Tetrachloroethene	50.0	47.8		ug/Kg		96	74 - 122
Toluene	50.0	48.3		ug/Kg		97	74 - 128
trans-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	78 - 126
trans-1,3-Dichloropropene	50.0	46.4		ug/Kg		93	73 - 123
Trichloroethene	50.0	46.9		ug/Kg		94	77 - 129
Trichlorofluoromethane	50.0	47.4		ug/Kg		95	65 - 146
Vinyl chloride	50.0	46.0		ug/Kg		92	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 126*
4-Bromofluorobenzene (Surr)	*92*		*72 - 126*
Dibromofluoromethane (Surr)	*97*		*60 - 140*

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 731001

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	5.3	U vs	54.0	49.6	vs	ug/Kg	☼	92	77 - 121
1,1,2,2-Tetrachloroethane	5.3	U vs	54.0	59.8	vs	ug/Kg	☼	111	80 - 120
1,1,2-Trichloroethane	5.3	U vs	54.0	50.3	vs	ug/Kg	☼	93	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U vs	54.0	51.5	vs	ug/Kg	☼	95	60 - 140
1,1-Dichloroethane	5.3	U vs	54.0	52.7	vs	ug/Kg	☼	98	73 - 126
1,1-Dichloroethene	5.3	U vs	54.0	52.1	vs	ug/Kg	☼	96	59 - 125
1,2,4-Trichlorobenzene	5.3	U F1 vs	54.0	20.6	F1 vs	ug/Kg	☼	38	64 - 120
1,2-Dibromo-3-Chloropropane	5.3	U vs	54.0	42.5	vs	ug/Kg	☼	79	63 - 124
1,2-Dichlorobenzene	5.3	U vs	54.0	45.8	vs	ug/Kg	☼	85	75 - 120
1,2-Dichloroethane	5.3	U vs	54.0	44.9	vs	ug/Kg	☼	83	77 - 122
1,2-Dichloropropane	5.3	U vs	54.0	49.9	vs	ug/Kg	☼	93	75 - 124
1,3-Dichlorobenzene	5.3	U vs	54.0	44.8	vs	ug/Kg	☼	83	74 - 120
1,4-Dichlorobenzene	5.3	U vs	54.0	44.2	vs	ug/Kg	☼	82	73 - 120
2-Butanone (MEK)	26	U F1 vs	270	169	F1 vs	ug/Kg	☼	63	70 - 134
2-Hexanone	26	U vs	270	207	vs	ug/Kg	☼	77	59 - 130
4-Methyl-2-pentanone (MIBK)	26	U vs	270	225	vs	ug/Kg	☼	83	65 - 133
Acetone	9.0	J F1 vs	270	167	F1 vs	ug/Kg	☼	59	61 - 137
Benzene	5.3	U vs	54.0	51.9	vs	ug/Kg	☼	96	79 - 127
Bromodichloromethane	5.3	U vs	54.0	45.5	vs	ug/Kg	☼	84	80 - 122
Bromoform	5.3	U vs	54.0	38.2	vs	ug/Kg	☼	71	68 - 126
Bromomethane	5.3	U vs	54.0	53.8	vs	ug/Kg	☼	100	37 - 149
Carbon disulfide	5.3	U vs	54.0	48.2	vs	ug/Kg	☼	89	64 - 131
Carbon tetrachloride	5.3	U vs	54.0	46.0	vs	ug/Kg	☼	85	75 - 135

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

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 731001

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	5.3	U vs	54.0	51.1	vs	ug/Kg	☼	95	76 - 124
Dibromochloromethane	5.3	U vs	54.0	50.4	vs	ug/Kg	☼	93	76 - 125
Chloroethane	5.3	U vs	54.0	54.8	vs	ug/Kg	☼	101	69 - 135
Chloroform	0.51	J B vs	54.0	49.8	vs	ug/Kg	☼	91	80 - 120
Chloromethane	5.3	U vs	54.0	57.0	vs	ug/Kg	☼	106	63 - 127
cis-1,2-Dichloroethene	5.3	U vs	54.0	50.4	vs	ug/Kg	☼	93	80 - 120
cis-1,3-Dichloropropene	5.3	U vs	54.0	43.0	vs	ug/Kg	☼	80	80 - 120
Cyclohexane	5.3	U vs	54.0	44.8	vs	ug/Kg	☼	83	65 - 120
Dichlorodifluoromethane	5.3	U vs	54.0	49.0	vs	ug/Kg	☼	91	57 - 142
Ethylbenzene	5.3	U vs	54.0	52.3	vs	ug/Kg	☼	97	80 - 120
1,2-Dibromoethane	5.3	U vs	54.0	47.9	vs	ug/Kg	☼	89	78 - 120
Isopropylbenzene	5.3	U F1 vs	54.0	65.1	F1 vs	ug/Kg	☼	121	72 - 120
Methyl acetate	26	U vs	108	76.6	vs	ug/Kg	☼	71	55 - 136
Methyl tert-butyl ether	5.3	U vs	54.0	44.1	vs	ug/Kg	☼	82	63 - 125
Methylcyclohexane	5.3	U F1 vs	54.0	31.7	F1 vs	ug/Kg	☼	59	60 - 140
Methylene Chloride	2.4	J vs	54.0	56.9	vs	ug/Kg	☼	105	61 - 127
Styrene	5.3	U vs	54.0	46.7	vs	ug/Kg	☼	87	80 - 120
Tetrachloroethene	3.9	J vs	54.0	55.0	vs	ug/Kg	☼	95	74 - 122
Toluene	2.0	J vs	54.0	58.4	vs	ug/Kg	☼	105	74 - 128
trans-1,2-Dichloroethene	5.3	U vs	54.0	50.3	vs	ug/Kg	☼	93	78 - 126
trans-1,3-Dichloropropene	5.3	U vs	54.0	48.1	vs	ug/Kg	☼	89	73 - 123
Trichloroethene	5.3	U vs	54.0	48.9	vs	ug/Kg	☼	91	77 - 129
Trichlorofluoromethane	5.3	U vs	54.0	52.3	vs	ug/Kg	☼	97	65 - 146
Vinyl chloride	5.3	U vs	54.0	52.1	vs	ug/Kg	☼	97	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*77*		*64 - 126*
4-Bromofluorobenzene (Surr)	*83*		*72 - 126*
Dibromofluoromethane (Surr)	*88*		*60 - 140*

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 731001

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	5.3	U vs	54.0	45.4	vs	ug/Kg	☼	84	77 - 121	9	30
1,1,2,2-Tetrachloroethane	5.3	U vs	54.0	55.7	vs	ug/Kg	☼	103	80 - 120	7	30
1,1,2-Trichloroethane	5.3	U vs	54.0	47.7	vs	ug/Kg	☼	88	78 - 122	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U vs	54.0	45.4	vs	ug/Kg	☼	84	60 - 140	12	30
1,1-Dichloroethane	5.3	U vs	54.0	49.4	vs	ug/Kg	☼	92	73 - 126	6	30
1,1-Dichloroethene	5.3	U vs	54.0	48.9	vs	ug/Kg	☼	91	59 - 125	6	30
1,2,4-Trichlorobenzene	5.3	U F1 vs	54.0	19.9	F1 vs	ug/Kg	☼	37	64 - 120	3	30
1,2-Dibromo-3-Chloropropane	5.3	U vs	54.0	38.2	vs	ug/Kg	☼	71	63 - 124	11	30
1,2-Dichlorobenzene	5.3	U vs	54.0	43.2	vs	ug/Kg	☼	80	75 - 120	6	30
1,2-Dichloroethane	5.3	U vs	54.0	44.1	vs	ug/Kg	☼	82	77 - 122	2	30
1,2-Dichloropropane	5.3	U vs	54.0	49.6	vs	ug/Kg	☼	92	75 - 124	1	30
1,3-Dichlorobenzene	5.3	U vs	54.0	43.3	vs	ug/Kg	☼	80	74 - 120	3	30

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

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 731001

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	5.3	U vs	54.0	42.8	vs	ug/Kg	☼	79	73 - 120	3	30
2-Butanone (MEK)	26	U F1 vs	270	188	vs	ug/Kg	☼	70	70 - 134	11	30
2-Hexanone	26	U vs	270	212	vs	ug/Kg	☼	79	59 - 130	2	30
4-Methyl-2-pentanone (MIBK)	26	U vs	270	212	vs	ug/Kg	☼	79	65 - 133	6	30
Acetone	9.0	J F1 vs	270	199	vs	ug/Kg	☼	71	61 - 137	18	30
Benzene	5.3	U vs	54.0	51.2	vs	ug/Kg	☼	95	79 - 127	2	30
Bromodichloromethane	5.3	U vs	54.0	46.0	vs	ug/Kg	☼	85	80 - 122	1	30
Bromoform	5.3	U vs	54.0	38.4	vs	ug/Kg	☼	71	68 - 126	1	30
Bromomethane	5.3	U vs	54.0	45.1	vs	ug/Kg	☼	84	37 - 149	18	30
Carbon disulfide	5.3	U vs	54.0	43.1	vs	ug/Kg	☼	80	64 - 131	11	30
Carbon tetrachloride	5.3	U vs	54.0	43.4	vs	ug/Kg	☼	80	75 - 135	6	30
Chlorobenzene	5.3	U vs	54.0	49.1	vs	ug/Kg	☼	91	76 - 124	4	30
Dibromochloromethane	5.3	U vs	54.0	48.5	vs	ug/Kg	☼	90	76 - 125	4	30
Chloroethane	5.3	U vs	54.0	46.5	vs	ug/Kg	☼	86	69 - 135	16	30
Chloroform	0.51	J B vs	54.0	47.3	vs	ug/Kg	☼	87	80 - 120	5	30
Chloromethane	5.3	U vs	54.0	49.5	vs	ug/Kg	☼	92	63 - 127	14	30
cis-1,2-Dichloroethene	5.3	U vs	54.0	48.4	vs	ug/Kg	☼	90	80 - 120	4	30
cis-1,3-Dichloropropene	5.3	U vs	54.0	44.0	vs	ug/Kg	☼	82	80 - 120	2	30
Cyclohexane	5.3	U vs	54.0	41.9	vs	ug/Kg	☼	78	65 - 120	7	30
Dichlorodifluoromethane	5.3	U vs	54.0	40.8	vs	ug/Kg	☼	76	57 - 142	18	30
Ethylbenzene	5.3	U vs	54.0	49.1	vs	ug/Kg	☼	91	80 - 120	6	30
1,2-Dibromoethane	5.3	U vs	54.0	44.3	vs	ug/Kg	☼	82	78 - 120	8	30
Isopropylbenzene	5.3	U F1 vs	54.0	60.4	vs	ug/Kg	☼	112	72 - 120	8	30
Methyl acetate	26	U vs	108	84.7	vs	ug/Kg	☼	79	55 - 136	10	30
Methyl tert-butyl ether	5.3	U vs	54.0	41.8	vs	ug/Kg	☼	78	63 - 125	5	30
Methylcyclohexane	5.3	U F1 vs	54.0	32.3	vs	ug/Kg	☼	60	60 - 140	2	30
Methylene Chloride	2.4	J vs	54.0	51.6	vs	ug/Kg	☼	96	61 - 127	10	30
Styrene	5.3	U vs	54.0	44.4	vs	ug/Kg	☼	82	80 - 120	5	30
Tetrachloroethene	3.9	J vs	54.0	53.6	vs	ug/Kg	☼	92	74 - 122	3	30
Toluene	2.0	J vs	54.0	54.6	vs	ug/Kg	☼	98	74 - 128	7	30
trans-1,2-Dichloroethene	5.3	U vs	54.0	46.7	vs	ug/Kg	☼	87	78 - 126	7	30
trans-1,3-Dichloropropene	5.3	U vs	54.0	47.5	vs	ug/Kg	☼	88	73 - 123	1	30
Trichloroethene	5.3	U vs	54.0	48.0	vs	ug/Kg	☼	89	77 - 129	2	30
Trichlorofluoromethane	5.3	U vs	54.0	45.9	vs	ug/Kg	☼	85	65 - 146	13	30
Vinyl chloride	5.3	U vs	54.0	44.4	vs	ug/Kg	☼	82	61 - 133	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*79*		*64 - 126*
4-Bromofluorobenzene (Surr)	*83*		*72 - 126*
Dibromofluoromethane (Surr)	*87*		*60 - 140*

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

Lab Sample ID: MB 480-730560/1-A
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	55	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2,4,5-Trichlorophenol	170	U	170	46	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2,4,6-Trichlorophenol	170	U	170	34	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2,4-Dichlorophenol	170	U	170	18	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2,4-Dimethylphenol	170	U	170	41	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2,4-Dinitrophenol	1700	U	1700	780	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2,4-Dinitrotoluene	170	U	170	35	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2,6-Dinitrotoluene	170	U	170	20	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2-Chloronaphthalene	170	U	170	28	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2-Chlorophenol	330	U	330	31	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2-Methylnaphthalene	170	U	170	34	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2-Methylphenol	170	U	170	20	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2-Nitroaniline	330	U	330	25	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
2-Nitrophenol	170	U	170	48	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
3,3'-Dichlorobenzidine	330	U	330	200	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
3-Nitroaniline	330	U	330	47	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
4,6-Dinitro-2-methylphenol	330	U	330	170	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
4-Bromophenyl phenyl ether	170	U	170	24	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
4-Chloro-3-methylphenol	170	U	170	42	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
4-Chloroaniline	170	U	170	42	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
4-Chlorophenyl phenyl ether	170	U	170	21	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
4-Methylphenol	330	U	330	20	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
4-Nitroaniline	330	U	330	89	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
4-Nitrophenol	330	U	330	120	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Acenaphthene	170	U	170	25	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Acenaphthylene	170	U	170	22	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Acetophenone	170	U	170	23	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Anthracene	170	U	170	42	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Atrazine	170	U	170	59	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Benzaldehyde	170	U	170	140	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Biphenyl	170	U	170	25	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
bis (2-chloroisopropyl) ether	170	U	170	34	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Bis(2-chloroethoxy)methane	170	U	170	36	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Bis(2-chloroethyl)ether	170	U	170	22	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Bis(2-ethylhexyl) phthalate	170	U	170	58	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Butyl benzyl phthalate	170	U	170	28	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Caprolactam	170	U	170	51	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Carbazole	170	U	170	20	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Chrysene	170	U	170	38	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Dibenzofuran	170	U	170	20	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Diethyl phthalate	170	U	170	22	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Dimethyl phthalate	170	U	170	20	ug/Kg		10/30/24 17:31	10/31/24 17:19	1

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

Lab Sample ID: MB 480-730560/1-A
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	170	U	170	29	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Di-n-octyl phthalate	170	U	170	20	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Fluoranthene	170	U	170	18	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Fluorene	170	U	170	20	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Hexachlorobenzene	170	U	170	23	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Hexachlorobutadiene	170	U	170	25	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Hexachlorocyclopentadiene	170	U	170	23	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Hexachloroethane	170	U	170	22	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Isophorone	170	U	170	36	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Naphthalene	170	U	170	22	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Nitrobenzene	170	U	170	19	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
N-Nitrosodi-n-propylamine	170	U	170	29	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
N-Nitrosodiphenylamine	170	U	170	140	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Pentachlorophenol	330	U	330	170	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Phenanthrene	170	U	170	25	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Phenol	170	U	170	26	ug/Kg		10/30/24 17:31	10/31/24 17:19	1
Pyrene	170	U	170	20	ug/Kg		10/30/24 17:31	10/31/24 17:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*26 - 143*	*10/30/24 17:31*	*10/31/24 17:19*	*1*
2-Fluorobiphenyl (Surr)	*86*		*50 - 121*	*10/30/24 17:31*	*10/31/24 17:19*	*1*
2-Fluorophenol (Surr)	*90*		*36 - 120*	*10/30/24 17:31*	*10/31/24 17:19*	*1*
Nitrobenzene-d5 (Surr)	*81*		*40 - 121*	*10/30/24 17:31*	*10/31/24 17:19*	*1*
Phenol-d5 (Surr)	*94*		*41 - 120*	*10/30/24 17:31*	*10/31/24 17:19*	*1*
p-Terphenyl-d14 (Surr)	*90*		*46 - 143*	*10/30/24 17:31*	*10/31/24 17:19*	*1*

Lab Sample ID: LCS 480-730560/2-A
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1330	704		ug/Kg		53	23 - 120
2,4,5-Trichlorophenol	1330	1250		ug/Kg		94	59 - 126
2,4,6-Trichlorophenol	1330	1230		ug/Kg		92	59 - 123
2,4-Dichlorophenol	1330	1230		ug/Kg		92	61 - 120
2,4-Dimethylphenol	1330	1220		ug/Kg		91	59 - 120
2,4-Dinitrophenol	2670	2200		ug/Kg		83	41 - 146
2,4-Dinitrotoluene	1330	1330		ug/Kg		100	63 - 120
2,6-Dinitrotoluene	1330	1260		ug/Kg		95	66 - 120
2-Chloronaphthalene	1330	1150		ug/Kg		86	57 - 120
2-Chlorophenol	1330	1170		ug/Kg		88	53 - 120
2-Methylnaphthalene	1330	1110		ug/Kg		83	59 - 120
2-Methylphenol	1330	1170		ug/Kg		88	54 - 120
2-Nitroaniline	1330	1470		ug/Kg		110	61 - 120
2-Nitrophenol	1330	1150		ug/Kg		86	56 - 120
3,3'-Dichlorobenzidine	1330	995		ug/Kg		75	54 - 120
3-Nitroaniline	1330	1120		ug/Kg		84	48 - 120

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

Lab Sample ID: LCS 480-730560/2-A
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	2670	2300		ug/Kg		86	49 - 122
4-Bromophenyl phenyl ether	1330	1230		ug/Kg		92	58 - 120
4-Chloro-3-methylphenol	1330	1210		ug/Kg		91	61 - 120
4-Chloroaniline	1330	1010		ug/Kg		76	38 - 120
4-Chlorophenyl phenyl ether	1330	1310		ug/Kg		98	63 - 124
4-Methylphenol	1330	1220		ug/Kg		92	55 - 120
4-Nitroaniline	1330	1190		ug/Kg		89	56 - 120
4-Nitrophenol	2670	2730		ug/Kg		103	43 - 147
Acenaphthene	1330	1210		ug/Kg		91	62 - 120
Acenaphthylene	1330	1270		ug/Kg		95	58 - 121
Acetophenone	1330	1190		ug/Kg		89	54 - 120
Anthracene	1330	1240		ug/Kg		93	62 - 120
Atrazine	1330	1450		ug/Kg		109	60 - 127
Benzaldehyde	1330	1260		ug/Kg		95	10 - 150
Benzo[a]anthracene	1330	1260		ug/Kg		95	65 - 120
Benzo[a]pyrene	1330	1310		ug/Kg		98	64 - 120
Benzo[b]fluoranthene	1330	1420		ug/Kg		107	64 - 120
Benzo[g,h,i]perylene	1330	1390		ug/Kg		104	45 - 145
Benzo[k]fluoranthene	1330	1190		ug/Kg		89	65 - 120
Biphenyl	1330	1220		ug/Kg		91	59 - 120
bis (2-chloroisopropyl) ether	1330	1200		ug/Kg		90	44 - 120
Bis(2-chloroethoxy)methane	1330	1200		ug/Kg		90	55 - 120
Bis(2-chloroethyl)ether	1330	1150		ug/Kg		86	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1390		ug/Kg		104	61 - 133
Butyl benzyl phthalate	1330	1360		ug/Kg		102	61 - 129
Caprolactam	1330	1210		ug/Kg		91	47 - 120
Carbazole	1330	1300		ug/Kg		98	65 - 120
Chrysene	1330	1240		ug/Kg		93	64 - 120
Dibenz(a,h)anthracene	1330	1400		ug/Kg		105	54 - 132
Dibenzofuran	1330	1240		ug/Kg		93	63 - 120
Diethyl phthalate	1330	1420		ug/Kg		106	66 - 120
Dimethyl phthalate	1330	1320		ug/Kg		99	65 - 124
Di-n-butyl phthalate	1330	1350		ug/Kg		101	58 - 130
Di-n-octyl phthalate	1330	1530		ug/Kg		115	57 - 133
Fluoranthene	1330	1300		ug/Kg		97	62 - 120
Fluorene	1330	1290		ug/Kg		97	63 - 120
Hexachlorobenzene	1330	1220		ug/Kg		92	60 - 120
Hexachlorobutadiene	1330	1010		ug/Kg		76	45 - 120
Hexachlorocyclopentadiene	1330	1030		ug/Kg		78	47 - 120
Hexachloroethane	1330	1010		ug/Kg		76	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1380		ug/Kg		104	56 - 134
Isophorone	1330	1230		ug/Kg		93	56 - 120
Naphthalene	1330	1080		ug/Kg		81	55 - 120
Nitrobenzene	1330	1150		ug/Kg		86	54 - 120
N-Nitrosodi-n-propylamine	1330	1250		ug/Kg		94	52 - 120
N-Nitrosodiphenylamine	1330	1230		ug/Kg		92	51 - 128
Pentachlorophenol	2670	2480		ug/Kg		93	10 - 120
Phenanthrene	1330	1230		ug/Kg		93	60 - 120
Phenol	1330	1130		ug/Kg		85	53 - 120

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

Lab Sample ID: LCS 480-730560/2-A
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730560

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Pyrene			1330	1270		ug/Kg		95	61 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*92*		*26 - 143*
2-Fluorobiphenyl (Surr)	*86*		*50 - 121*
2-Fluorophenol (Surr)	*88*		*36 - 120*
Nitrobenzene-d5 (Surr)	*82*		*40 - 121*
Phenol-d5 (Surr)	*90*		*41 - 120*
p-Terphenyl-d14 (Surr)	*92*		*46 - 143*

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2200	U F1	1450	2200	U F1	ug/Kg	☼	0	13 - 120
2,4,5-Trichlorophenol	3700	U	1450	1420	J	ug/Kg	☼	98	46 - 120
2,4,6-Trichlorophenol	3700	U	1450	1490	J	ug/Kg	☼	103	41 - 123
2,4-Dichlorophenol	3700	U	1450	1030	J	ug/Kg	☼	71	45 - 120
2,4-Dimethylphenol	3700	U	1450	1440	J	ug/Kg	☼	100	52 - 120
2,4-Dinitrophenol	36000	U	2890	36000	U	ug/Kg	☼	NC	41 - 146
2,4-Dinitrotoluene	3700	U	1450	1590	J	ug/Kg	☼	110	63 - 125
2,6-Dinitrotoluene	3700	U	1450	1500	J	ug/Kg	☼	104	66 - 120
2-Chloronaphthalene	3700	U	1450	1300	J	ug/Kg	☼	90	57 - 120
2-Chlorophenol	7200	U	1450	1100	J	ug/Kg	☼	76	43 - 120
2-Methylnaphthalene	3700	U	1450	1370	J	ug/Kg	☼	95	55 - 120
2-Methylphenol	3700	U	1450	1430	J	ug/Kg	☼	99	48 - 120
2-Nitroaniline	7200	U	1450	1270	J	ug/Kg	☼	88	61 - 120
2-Nitrophenol	3700	U	1450	1240	J	ug/Kg	☼	86	37 - 120
3,3'-Dichlorobenzidine	7200	U	1450	7200	U	ug/Kg	☼	NC	37 - 126
3-Nitroaniline	7200	U F1	1450	1480	J	ug/Kg	☼	102	48 - 120
4,6-Dinitro-2-methylphenol	7200	U	2890	7200	U	ug/Kg	☼	NC	23 - 149
4-Bromophenyl phenyl ether	3700	U F2	1450	1430	J	ug/Kg	☼	99	58 - 120
4-Chloro-3-methylphenol	3700	U	1450	1550	J	ug/Kg	☼	107	49 - 125
4-Chloroaniline	3700	U	1450	1260	J	ug/Kg	☼	87	38 - 120
4-Chlorophenyl phenyl ether	3700	U	1450	1380	J	ug/Kg	☼	95	63 - 124
4-Methylphenol	7200	U	1450	1350	J	ug/Kg	☼	93	50 - 120
4-Nitroaniline	7200	U	1450	7200	U	ug/Kg	☼	NC	47 - 120
4-Nitrophenol	7200	U F1	2890	7200	U F1	ug/Kg	☼	0	31 - 147
Acenaphthene	3700	U F1 F2	1450	1310	J	ug/Kg	☼	90	60 - 120
Acenaphthylene	3700	U	1450	1340	J	ug/Kg	☼	93	58 - 121
Acetophenone	3700	U	1450	1110	J	ug/Kg	☼	77	47 - 120
Anthracene	3700	U F1 F2	1450	1630	J	ug/Kg	☼	112	62 - 120
Atrazine	3700	U	1450	1780	J	ug/Kg	☼	123	60 - 150
Benzaldehyde	3700	U	1450	3700	U	ug/Kg	☼	NC	10 - 150
Benzo[a]anthracene	1000	J F1 F2	1450	2130	J	ug/Kg	☼	75	65 - 120
Benzo[a]pyrene	1100	J F1 F2	1450	2150	J	ug/Kg	☼	73	64 - 120
Benzo[b]fluoranthene	1300	J F1 F2	1450	2080	J	ug/Kg	☼	57	10 - 150

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

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	720	J F1 F2	1450	2010	J	ug/Kg	☼	89	45 - 145
Benzo[k]fluoranthene	520	J F1 F2	1450	1960	J	ug/Kg	☼	100	23 - 150
Biphenyl	3700	U	1450	1340	J	ug/Kg	☼	93	58 - 120
bis (2-chloroisopropyl) ether	3700	U	1450	1330	J	ug/Kg	☼	92	31 - 120
Bis(2-chloroethoxy)methane	3700	U	1450	1190	J	ug/Kg	☼	82	52 - 120
Bis(2-chloroethyl)ether	3700	U	1450	1330	J	ug/Kg	☼	92	45 - 120
Bis(2-ethylhexyl) phthalate	3700	U F1	1450	1960	J F1	ug/Kg	☼	136	61 - 133
Butyl benzyl phthalate	3700	U F1	1450	1930	J F1	ug/Kg	☼	133	61 - 120
Caprolactam	3700	U F2	1450	1780	J	ug/Kg	☼	123	37 - 133
Carbazole	3700	U F1 F2	1450	1510	J	ug/Kg	☼	105	59 - 120
Chrysene	980	J F1 F2	1450	2000	J	ug/Kg	☼	70	64 - 120
Dibenz(a,h)anthracene	3700	U F1 F2	1450	1610	J	ug/Kg	☼	112	54 - 132
Dibenzofuran	3700	U F1 F2	1450	1380	J	ug/Kg	☼	95	62 - 120
Diethyl phthalate	3700	U F2	1450	1470	J	ug/Kg	☼	101	66 - 120
Dimethyl phthalate	3700	U	1450	1380	J	ug/Kg	☼	96	65 - 124
Di-n-butyl phthalate	3700	U	1450	1760	J	ug/Kg	☼	122	58 - 130
Di-n-octyl phthalate	3700	U F1	1450	2300	J F1	ug/Kg	☼	159	57 - 133
Fluoranthene	2300	J F1 F2	1450	3110	J F1	ug/Kg	☼	59	62 - 120
Fluorene	3700	U F1 F2	1450	1440	J	ug/Kg	☼	99	63 - 120
Hexachlorobenzene	3700	U	1450	1290	J	ug/Kg	☼	89	60 - 120
Hexachlorobutadiene	3700	U	1450	1110	J	ug/Kg	☼	77	45 - 120
Hexachlorocyclopentadiene	3700	U	1450	1240	J	ug/Kg	☼	86	31 - 120
Hexachloroethane	3700	U	1450	996	J	ug/Kg	☼	69	21 - 120
Indeno[1,2,3-cd]pyrene	550	J F1 F2	1450	1840	J	ug/Kg	☼	89	56 - 134
Isophorone	3700	U	1450	1440	J	ug/Kg	☼	100	56 - 120
Naphthalene	3700	U F1 F2	1450	1230	J	ug/Kg	☼	85	46 - 120
Nitrobenzene	3700	U	1450	1150	J	ug/Kg	☼	79	49 - 120
N-Nitrosodi-n-propylamine	3700	U	1450	1470	J	ug/Kg	☼	102	46 - 120
N-Nitrosodiphenylamine	3700	U	1450	3700	U	ug/Kg	☼	NC	20 - 128
Pentachlorophenol	7200	U	2890	3910	J	ug/Kg	☼	NC	10 - 136
Phenanthrene	1300	J F1 F2	1450	2320	J	ug/Kg	☼	67	60 - 122
Phenol	3700	U	1450	1090	J	ug/Kg	☼	76	50 - 120
Pyrene	1800	J F1 F2	1450	2700	J	ug/Kg	☼	65	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*111*		*26 - 143*
2-Fluorobiphenyl (Surr)	*84*		*50 - 121*
2-Fluorophenol (Surr)	*63*		*36 - 120*
Nitrobenzene-d5 (Surr)	*88*		*40 - 121*
Phenol-d5 (Surr)	*76*		*41 - 120*
p-Terphenyl-d14 (Surr)	*101*		*46 - 143*

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2200	U F1	1430	2100	U F1	ug/Kg	☼	0	13 - 120	NC	50

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

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	3700	U	1430	1490	J	ug/Kg	☼	104	46 - 120	5	18
2,4,6-Trichlorophenol	3700	U	1430	1320	J	ug/Kg	☼	92	41 - 123	12	19
2,4-Dichlorophenol	3700	U	1430	1100	J	ug/Kg	☼	77	45 - 120	6	19
2,4-Dimethylphenol	3700	U	1430	1400	J	ug/Kg	☼	98	52 - 120	3	42
2,4-Dinitrophenol	36000	U	2860	36000	U	ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	3700	U	1430	1320	J	ug/Kg	☼	92	63 - 125	18	20
2,6-Dinitrotoluene	3700	U	1430	1470	J	ug/Kg	☼	103	66 - 120	2	15
2-Chloronaphthalene	3700	U	1430	1220	J	ug/Kg	☼	86	57 - 120	6	21
2-Chlorophenol	7200	U	1430	1050	J	ug/Kg	☼	73	43 - 120	5	25
2-Methylnaphthalene	3700	U	1430	1450	J	ug/Kg	☼	101	55 - 120	5	21
2-Methylphenol	3700	U	1430	1460	J	ug/Kg	☼	102	48 - 120	2	27
2-Nitroaniline	7200	U	1430	1260	J	ug/Kg	☼	88	61 - 120	1	15
2-Nitrophenol	3700	U	1430	1350	J	ug/Kg	☼	94	37 - 120	8	18
3,3'-Dichlorobenzidine	7200	U	1430	7100	U	ug/Kg	☼	NC	37 - 126	NC	25
3-Nitroaniline	7200	U F1	1430	7100	U F1	ug/Kg	☼	0	48 - 120	NC	19
4,6-Dinitro-2-methylphenol	7200	U	2860	7100	U	ug/Kg	☼	NC	23 - 149	NC	15
4-Bromophenyl phenyl ether	3700	U F2	1430	1200	J F2	ug/Kg	☼	84	58 - 120	18	15
4-Chloro-3-methylphenol	3700	U	1430	1480	J	ug/Kg	☼	103	49 - 125	5	27
4-Chloroaniline	3700	U	1430	1070	J	ug/Kg	☼	75	38 - 120	16	22
4-Chlorophenyl phenyl ether	3700	U	1430	1220	J	ug/Kg	☼	85	63 - 124	12	16
4-Methylphenol	7200	U	1430	1260	J	ug/Kg	☼	88	50 - 120	7	24
4-Nitroaniline	7200	U	1430	7100	U	ug/Kg	☼	NC	47 - 120	NC	24
4-Nitrophenol	7200	U F1	2860	2680	J	ug/Kg	☼	94	31 - 147	NC	25
Acenaphthene	3700	U F1 F2	1430	2070	J F1 F2	ug/Kg	☼	145	60 - 120	45	35
Acenaphthylene	3700	U	1430	1440	J	ug/Kg	☼	100	58 - 121	7	18
Acetophenone	3700	U	1430	1160	J	ug/Kg	☼	81	47 - 120	4	20
Anthracene	3700	U F1 F2	1430	2770	J F1 F2	ug/Kg	☼	194	62 - 120	52	15
Atrazine	3700	U	1430	1500	J	ug/Kg	☼	105	60 - 150	17	20
Benzaldehyde	3700	U	1430	3600	U	ug/Kg	☼	NC	10 - 150	NC	20
Benzo[a]anthracene	1000	J F1 F2	1430	5040	F1 F2	ug/Kg	☼	280	65 - 120	81	15
Benzo[a]pyrene	1100	J F1 F2	1430	4660	F1 F2	ug/Kg	☼	250	64 - 120	74	15
Benzo[b]fluoranthene	1300	J F1 F2	1430	5600	F1 F2	ug/Kg	☼	304	10 - 150	92	15
Benzo[g,h,i]perylene	720	J F1 F2	1430	3310	J F1 F2	ug/Kg	☼	182	45 - 145	49	15
Benzo[k]fluoranthene	520	J F1 F2	1430	2960	J F1 F2	ug/Kg	☼	170	23 - 150	41	22
Biphenyl	3700	U	1430	1280	J	ug/Kg	☼	90	58 - 120	5	20
bis (2-chloroisopropyl) ether	3700	U	1430	1250	J	ug/Kg	☼	87	31 - 120	6	24
Bis(2-chloroethoxy)methane	3700	U	1430	1140	J	ug/Kg	☼	80	52 - 120	4	17
Bis(2-chloroethyl)ether	3700	U	1430	1180	J	ug/Kg	☼	82	45 - 120	12	21
Bis(2-ethylhexyl) phthalate	3700	U F1	1430	1780	J	ug/Kg	☼	124	61 - 133	10	15
Butyl benzyl phthalate	3700	U F1	1430	1710	J	ug/Kg	☼	120	61 - 120	12	16
Caprolactam	3700	U F2	1430	1360	J F2	ug/Kg	☼	95	37 - 133	27	20
Carbazole	3700	U F1 F2	1430	2020	J F1 F2	ug/Kg	☼	141	59 - 120	29	20
Chrysene	980	J F1 F2	1430	4770	F1 F2	ug/Kg	☼	265	64 - 120	82	15
Dibenz(a,h)anthracene	3700	U F1 F2	1430	1990	J F1 F2	ug/Kg	☼	139	54 - 132	21	15
Dibenzofuran	3700	U F1 F2	1430	1730	J F1 F2	ug/Kg	☼	121	62 - 120	22	15
Diethyl phthalate	3700	U F2	1430	1230	J F2	ug/Kg	☼	86	66 - 120	18	15
Dimethyl phthalate	3700	U	1430	1270	J	ug/Kg	☼	89	65 - 124	8	15
Di-n-butyl phthalate	3700	U	1430	1620	J	ug/Kg	☼	114	58 - 130	8	15
Di-n-octyl phthalate	3700	U F1	1430	2080	J F1	ug/Kg	☼	145	57 - 133	10	16

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

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoranthene	2300	J F1 F2	1430	9670	F1 F2	ug/Kg	☼	518	62 - 120	103	15
Fluorene	3700	U F1 F2	1430	1940	J F1 F2	ug/Kg	☼	136	63 - 120	30	15
Hexachlorobenzene	3700	U	1430	1260	J	ug/Kg	☼	88	60 - 120	3	15
Hexachlorobutadiene	3700	U	1430	1030	J	ug/Kg	☼	72	45 - 120	7	44
Hexachlorocyclopentadiene	3700	U	1430	1230	J	ug/Kg	☼	86	31 - 120	1	49
Hexachloroethane	3700	U	1430	1010	J	ug/Kg	☼	71	21 - 120	1	46
Indeno[1,2,3-cd]pyrene	550	J F1 F2	1430	2970	J F1 F2	ug/Kg	☼	169	56 - 134	47	15
Isophorone	3700	U	1430	1460	J	ug/Kg	☼	102	56 - 120	1	17
Naphthalene	3700	U F1 F2	1430	1770	J F1 F2	ug/Kg	☼	124	46 - 120	36	29
Nitrobenzene	3700	U	1430	1050	J	ug/Kg	☼	74	49 - 120	9	24
N-Nitrosodi-n-propylamine	3700	U	1430	1400	J	ug/Kg	☼	98	46 - 120	5	31
N-Nitrosodiphenylamine	3700	U	1430	3600	U	ug/Kg	☼	NC	20 - 128	NC	15
Pentachlorophenol	7200	U	2860	3720	J	ug/Kg	☼	NC	10 - 136	5	35
Phenanthrene	1300	J F1 F2	1430	7620	F1 F2	ug/Kg	☼	439	60 - 122	107	15
Phenol	3700	U	1430	1060	J	ug/Kg	☼	74	50 - 120	3	35
Pyrene	1800	J F1 F2	1430	8020	F1 F2	ug/Kg	☼	438	61 - 133	99	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*89*		*26 - 143*
2-Fluorobiphenyl (Surr)	*79*		*50 - 121*
2-Fluorophenol (Surr)	*0*	*S1-*	*36 - 120*
Nitrobenzene-d5 (Surr)	*89*		*40 - 121*
Phenol-d5 (Surr)	*80*		*41 - 120*
p-Terphenyl-d14 (Surr)	*89*		*46 - 143*

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	11000	U	1410	11000	U	ug/Kg	☼	NC	13 - 120
2,4,5-Trichlorophenol	18000	U	1410	18000	U	ug/Kg	☼	NC	46 - 120
2,4,6-Trichlorophenol	18000	U	1410	18000	U	ug/Kg	☼	NC	41 - 123
2,4-Dichlorophenol	18000	U	1410	18000	U	ug/Kg	☼	NC	45 - 120
2,4-Dimethylphenol	18000	U	1410	18000	U	ug/Kg	☼	NC	52 - 120
2,4-Dinitrophenol	180000	U	2830	180000	U	ug/Kg	☼	NC	41 - 146
2,4-Dinitrotoluene	18000	U	1410	18000	U	ug/Kg	☼	NC	63 - 125
2,6-Dinitrotoluene	18000	U	1410	3040	J	ug/Kg	☼	NC	66 - 120
2-Chloronaphthalene	18000	U	1410	18000	U	ug/Kg	☼	NC	57 - 120
2-Chlorophenol	36000	U	1410	35000	U	ug/Kg	☼	NC	43 - 120
2-Methylnaphthalene	18000	U	1410	18000	U	ug/Kg	☼	NC	55 - 120
2-Methylphenol	18000	U	1410	2740	J	ug/Kg	☼	NC	48 - 120
2-Nitroaniline	36000	U	1410	35000	U	ug/Kg	☼	NC	61 - 120
2-Nitrophenol	18000	U	1410	18000	U	ug/Kg	☼	NC	37 - 120
3,3'-Dichlorobenzidine	36000	U	1410	35000	U	ug/Kg	☼	NC	37 - 126
3-Nitroaniline	36000	U	1410	35000	U	ug/Kg	☼	NC	48 - 120
4,6-Dinitro-2-methylphenol	36000	U	2830	35000	U	ug/Kg	☼	NC	23 - 149
4-Bromophenyl phenyl ether	18000	U	1410	18000	U	ug/Kg	☼	NC	58 - 120

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

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloro-3-methylphenol	18000	U	1410	18000	U	ug/Kg	☼	NC	49 - 125
4-Chloroaniline	18000	U	1410	18000	U	ug/Kg	☼	NC	38 - 120
4-Chlorophenyl phenyl ether	18000	U	1410	18000	U	ug/Kg	☼	NC	63 - 124
4-Methylphenol	36000	U	1410	35000	U	ug/Kg	☼	NC	50 - 120
4-Nitroaniline	36000	U	1410	35000	U	ug/Kg	☼	NC	47 - 120
4-Nitrophenol	36000	U	2830	35000	U	ug/Kg	☼	NC	31 - 147
Acenaphthene	18000	U	1410	18000	U	ug/Kg	☼	NC	60 - 120
Acenaphthylene	18000	U	1410	18000	U	ug/Kg	☼	NC	58 - 121
Acetophenone	18000	U	1410	18000	U	ug/Kg	☼	NC	47 - 120
Anthracene	18000	U	1410	18000	U	ug/Kg	☼	NC	62 - 120
Atrazine	18000	U	1410	18000	U	ug/Kg	☼	NC	60 - 150
Benzaldehyde	18000	U	1410	18000	U	ug/Kg	☼	NC	10 - 150
Benzo[a]anthracene	2500	J F1 F2	1410	3230	J F1	ug/Kg	☼	49	65 - 120
Benzo[a]pyrene	18000	U F2	1410	3270	J	ug/Kg	☼	NC	64 - 120
Benzo[b]fluoranthene	18000	U	1410	3600	J	ug/Kg	☼	NC	10 - 150
Benzo[g,h,i]perylene	18000	U	1410	3130	J	ug/Kg	☼	NC	45 - 145
Benzo[k]fluoranthene	18000	U	1410	18000	U	ug/Kg	☼	NC	23 - 150
Biphenyl	18000	U	1410	18000	U	ug/Kg	☼	NC	58 - 120
bis (2-chloroisopropyl) ether	18000	U	1410	18000	U	ug/Kg	☼	NC	31 - 120
Bis(2-chloroethoxy)methane	18000	U	1410	18000	U	ug/Kg	☼	NC	52 - 120
Bis(2-chloroethyl)ether	18000	U	1410	18000	U	ug/Kg	☼	NC	45 - 120
Bis(2-ethylhexyl) phthalate	18000	U	1410	18000	U	ug/Kg	☼	NC	61 - 133
Butyl benzyl phthalate	18000	U	1410	3990	J	ug/Kg	☼	NC	61 - 120
Caprolactam	18000	U	1410	18000	U	ug/Kg	☼	NC	37 - 133
Carbazole	18000	U	1410	18000	U	ug/Kg	☼	NC	59 - 120
Chrysene	18000	U	1410	18000	U	ug/Kg	☼	NC	64 - 120
Dibenz(a,h)anthracene	18000	U	1410	18000	U	ug/Kg	☼	NC	54 - 132
Dibenzofuran	18000	U	1410	18000	U	ug/Kg	☼	NC	62 - 120
Diethyl phthalate	18000	U	1410	18000	U	ug/Kg	☼	NC	66 - 120
Dimethyl phthalate	18000	U	1410	18000	U	ug/Kg	☼	NC	65 - 124
Di-n-butyl phthalate	18000	U	1410	18000	U	ug/Kg	☼	NC	58 - 130
Di-n-octyl phthalate	18000	U	1410	5010	J	ug/Kg	☼	NC	57 - 133
Fluoranthene	5700	J F2	1410	5020	J 4	ug/Kg	☼	-50	62 - 120
Fluorene	18000	U	1410	18000	U	ug/Kg	☼	NC	63 - 120
Hexachlorobenzene	18000	U	1410	18000	U	ug/Kg	☼	NC	60 - 120
Hexachlorobutadiene	18000	U	1410	18000	U	ug/Kg	☼	NC	45 - 120
Hexachlorocyclopentadiene	18000	U	1410	18000	U	ug/Kg	☼	NC	31 - 120
Hexachloroethane	18000	U	1410	18000	U	ug/Kg	☼	NC	21 - 120
Indeno[1,2,3-cd]pyrene	18000	U	1410	2730	J	ug/Kg	☼	NC	56 - 134
Isophorone	18000	U	1410	18000	U	ug/Kg	☼	NC	56 - 120
Naphthalene	18000	U	1410	18000	U	ug/Kg	☼	NC	46 - 120
Nitrobenzene	18000	U	1410	18000	U	ug/Kg	☼	NC	49 - 120
N-Nitrosodi-n-propylamine	18000	U	1410	18000	U	ug/Kg	☼	NC	46 - 120
N-Nitrosodiphenylamine	18000	U	1410	18000	U	ug/Kg	☼	NC	20 - 128
Pentachlorophenol	36000	U	2830	35000	U	ug/Kg	☼	NC	10 - 136
Phenanthrene	4000	J F1	1410	3290	J F1	ug/Kg	☼	-47	60 - 122
Phenol	18000	U	1410	18000	U	ug/Kg	☼	NC	50 - 120
Pyrene	4300	J F1	1410	4260	J F1	ug/Kg	☼	-5	61 - 133

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

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730560

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*26 - 143*
2-Fluorobiphenyl (Surr)	*85*		*50 - 121*
2-Fluorophenol (Surr)	*0*	*S1-*	*36 - 120*
Nitrobenzene-d5 (Surr)	*166*	*S1+*	*40 - 121*
Phenol-d5 (Surr)	*63*		*41 - 120*
p-Terphenyl-d14 (Surr)	*100*		*46 - 143*

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	11000	U	1430	11000	U	ug/Kg	☼	NC	13 - 120	NC	50
2,4,5-Trichlorophenol	18000	U	1430	18000	U	ug/Kg	☼	NC	46 - 120	NC	18
2,4,6-Trichlorophenol	18000	U	1430	18000	U	ug/Kg	☼	NC	41 - 123	NC	19
2,4-Dichlorophenol	18000	U	1430	18000	U	ug/Kg	☼	NC	45 - 120	NC	19
2,4-Dimethylphenol	18000	U	1430	18000	U	ug/Kg	☼	NC	52 - 120	NC	42
2,4-Dinitrophenol	180000	U	2860	180000	U	ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	18000	U	1430	18000	U	ug/Kg	☼	NC	63 - 125	NC	20
2,6-Dinitrotoluene	18000	U	1430	2900	J	ug/Kg	☼	NC	66 - 120	5	15
2-Chloronaphthalene	18000	U	1430	18000	U	ug/Kg	☼	NC	57 - 120	NC	21
2-Chlorophenol	36000	U	1430	35000	U	ug/Kg	☼	NC	43 - 120	NC	25
2-Methylnaphthalene	18000	U	1430	18000	U	ug/Kg	☼	NC	55 - 120	NC	21
2-Methylphenol	18000	U	1430	2590	J	ug/Kg	☼	NC	48 - 120	5	27
2-Nitroaniline	36000	U	1430	35000	U	ug/Kg	☼	NC	61 - 120	NC	15
2-Nitrophenol	18000	U	1430	18000	U	ug/Kg	☼	NC	37 - 120	NC	18
3,3'-Dichlorobenzidine	36000	U	1430	35000	U	ug/Kg	☼	NC	37 - 126	NC	25
3-Nitroaniline	36000	U	1430	35000	U	ug/Kg	☼	NC	48 - 120	NC	19
4,6-Dinitro-2-methylphenol	36000	U	2860	35000	U	ug/Kg	☼	NC	23 - 149	NC	15
4-Bromophenyl phenyl ether	18000	U	1430	18000	U	ug/Kg	☼	NC	58 - 120	NC	15
4-Chloro-3-methylphenol	18000	U	1430	18000	U	ug/Kg	☼	NC	49 - 125	NC	27
4-Chloroaniline	18000	U	1430	18000	U	ug/Kg	☼	NC	38 - 120	NC	22
4-Chlorophenyl phenyl ether	18000	U	1430	18000	U	ug/Kg	☼	NC	63 - 124	NC	16
4-Methylphenol	36000	U	1430	35000	U	ug/Kg	☼	NC	50 - 120	NC	24
4-Nitroaniline	36000	U	1430	35000	U	ug/Kg	☼	NC	47 - 120	NC	24
4-Nitrophenol	36000	U	2860	35000	U	ug/Kg	☼	NC	31 - 147	NC	25
Acenaphthene	18000	U	1430	18000	U	ug/Kg	☼	NC	60 - 120	NC	35
Acenaphthylene	18000	U	1430	18000	U	ug/Kg	☼	NC	58 - 121	NC	18
Acetophenone	18000	U	1430	18000	U	ug/Kg	☼	NC	47 - 120	NC	20
Anthracene	18000	U	1430	18000	U	ug/Kg	☼	NC	62 - 120	NC	15
Atrazine	18000	U	1430	18000	U	ug/Kg	☼	NC	60 - 150	NC	20
Benzaldehyde	18000	U	1430	18000	U	ug/Kg	☼	NC	10 - 150	NC	20
Benzo[a]anthracene	2500	J F1 F2	1430	2590	J F1 F2	ug/Kg	☼	4	65 - 120	22	15
Benzo[a]pyrene	18000	U F2	1430	2770	J F2	ug/Kg	☼	NC	64 - 120	17	15
Benzo[b]fluoranthene	18000	U	1430	3280	J	ug/Kg	☼	NC	10 - 150	9	15
Benzo[g,h,i]perylene	18000	U	1430	3020	J	ug/Kg	☼	NC	45 - 145	4	15
Benzo[k]fluoranthene	18000	U	1430	18000	U	ug/Kg	☼	NC	23 - 150	NC	22
Biphenyl	18000	U	1430	18000	U	ug/Kg	☼	NC	58 - 120	NC	20

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

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 730591

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
bis (2-chloroisopropyl) ether	18000	U	1430	18000	U	ug/Kg	☼	NC	31 - 120	NC	24
Bis(2-chloroethoxy)methane	18000	U	1430	18000	U	ug/Kg	☼	NC	52 - 120	NC	17
Bis(2-chloroethyl)ether	18000	U	1430	18000	U	ug/Kg	☼	NC	45 - 120	NC	21
Bis(2-ethylhexyl) phthalate	18000	U	1430	18000	U	ug/Kg	☼	NC	61 - 133	NC	15
Butyl benzyl phthalate	18000	U	1430	3940	J	ug/Kg	☼	NC	61 - 120	1	16
Caprolactam	18000	U	1430	18000	U	ug/Kg	☼	NC	37 - 133	NC	20
Carbazole	18000	U	1430	18000	U	ug/Kg	☼	NC	59 - 120	NC	20
Chrysene	18000	U	1430	18000	U	ug/Kg	☼	NC	64 - 120	NC	15
Dibenz(a,h)anthracene	18000	U	1430	18000	U	ug/Kg	☼	NC	54 - 132	NC	15
Dibenzofuran	18000	U	1430	18000	U	ug/Kg	☼	NC	62 - 120	NC	15
Diethyl phthalate	18000	U	1430	18000	U	ug/Kg	☼	NC	66 - 120	NC	15
Dimethyl phthalate	18000	U	1430	18000	U	ug/Kg	☼	NC	65 - 124	NC	15
Di-n-butyl phthalate	18000	U	1430	18000	U	ug/Kg	☼	NC	58 - 130	NC	15
Di-n-octyl phthalate	18000	U	1430	5130	J	ug/Kg	☼	NC	57 - 133	3	16
Fluoranthene	5700	J F2	1430	3520	J 4 F2	ug/Kg	☼	-155	62 - 120	35	15
Fluorene	18000	U	1430	18000	U	ug/Kg	☼	NC	63 - 120	NC	15
Hexachlorobenzene	18000	U	1430	18000	U	ug/Kg	☼	NC	60 - 120	NC	15
Hexachlorobutadiene	18000	U	1430	18000	U	ug/Kg	☼	NC	45 - 120	NC	44
Hexachlorocyclopentadiene	18000	U	1430	18000	U	ug/Kg	☼	NC	31 - 120	NC	49
Hexachloroethane	18000	U	1430	18000	U	ug/Kg	☼	NC	21 - 120	NC	46
Indeno[1,2,3-cd]pyrene	18000	U	1430	2420	J	ug/Kg	☼	NC	56 - 134	12	15
Isophorone	18000	U	1430	18000	U	ug/Kg	☼	NC	56 - 120	NC	17
Naphthalene	18000	U	1430	18000	U	ug/Kg	☼	NC	46 - 120	NC	29
Nitrobenzene	18000	U	1430	18000	U	ug/Kg	☼	NC	49 - 120	NC	24
N-Nitrosodi-n-propylamine	18000	U	1430	18000	U	ug/Kg	☼	NC	46 - 120	NC	31
N-Nitrosodiphenylamine	18000	U	1430	18000	U	ug/Kg	☼	NC	20 - 128	NC	15
Pentachlorophenol	36000	U	2860	35000	U	ug/Kg	☼	NC	10 - 136	NC	35
Phenanthrene	4000	J F1	1430	18000	U F1	ug/Kg	☼	0	60 - 122	NC	15
Phenol	18000	U	1430	18000	U	ug/Kg	☼	NC	50 - 120	NC	35
Pyrene	4300	J F1	1430	3300	J F1	ug/Kg	☼	-73	61 - 133	25	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*236*	*S1+*	*26 - 143*
2-Fluorobiphenyl (Surr)	*91*		*50 - 121*
2-Fluorophenol (Surr)	*0*	*S1-*	*36 - 120*
Nitrobenzene-d5 (Surr)	*155*	*S1+*	*40 - 121*
Phenol-d5 (Surr)	*66*		*41 - 120*
p-Terphenyl-d14 (Surr)	*98*		*46 - 143*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-730565/1-A
Matrix: Solid
Analysis Batch: 730754

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.7	U	1.7	0.32	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
4,4'-DDE	1.7	U	1.7	0.35	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
4,4'-DDT	0.733	J	1.7	0.39	ug/Kg		10/31/24 06:36	11/01/24 08:54	1

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

Lab Sample ID: MB 480-730565/1-A
Matrix: Solid
Analysis Batch: 730754

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.7	U	1.7	0.41	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
alpha-BHC	1.7	U	1.7	0.30	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
beta-BHC	1.7	U	1.7	0.30	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
Chlordane (.alpha.)	1.7	U	1.7	0.83	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
delta-BHC	1.7	U	1.7	0.31	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
Dieldrin	1.7	U	1.7	0.40	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
Endosulfan I	1.7	U	1.7	0.32	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
Endosulfan II	1.7	U	1.7	0.30	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
Endosulfan sulfate	1.7	U	1.7	0.31	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
Endrin	1.7	U	1.7	0.33	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
Heptachlor	1.7	U	1.7	0.36	ug/Kg		10/31/24 06:36	11/01/24 08:54	1
Lindane	1.7	U	1.7	0.31	ug/Kg		10/31/24 06:36	11/01/24 08:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*		*45 - 120*	*10/31/24 06:36*	*11/01/24 08:54*	*1*
DCB Decachlorobiphenyl	*78*		*45 - 120*	*10/31/24 06:36*	*11/01/24 08:54*	*1*
Tetrachloro-m-xylene	*54*		*30 - 124*	*10/31/24 06:36*	*11/01/24 08:54*	*1*
Tetrachloro-m-xylene	*63*		*30 - 124*	*10/31/24 06:36*	*11/01/24 08:54*	*1*

Lab Sample ID: LCS 480-730565/2-A
Matrix: Solid
Analysis Batch: 730754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	15.8		ug/Kg		95	56 - 120
4,4'-DDE	16.7	15.6		ug/Kg		93	44 - 120
4,4'-DDT	16.7	16.5		ug/Kg		99	38 - 120
Aldrin	16.7	15.0		ug/Kg		90	38 - 120
alpha-BHC	16.7	12.9		ug/Kg		78	39 - 120
beta-BHC	16.7	14.1		ug/Kg		85	40 - 120
Chlordane (.alpha.)	16.7	15.2		ug/Kg		91	47 - 120
delta-BHC	16.7	14.3		ug/Kg		86	45 - 120
Dieldrin	16.7	15.8		ug/Kg		95	58 - 120
Endosulfan I	16.7	14.9		ug/Kg		89	49 - 120
Endosulfan II	16.7	16.0		ug/Kg		96	55 - 120
Endosulfan sulfate	16.7	13.8		ug/Kg		83	49 - 124
Endrin	16.7	16.1		ug/Kg		96	58 - 120
Heptachlor	16.7	14.7		ug/Kg		88	50 - 120
Lindane	16.7	14.2		ug/Kg		85	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*57*		*45 - 120*
DCB Decachlorobiphenyl	*94*		*45 - 120*
Tetrachloro-m-xylene	*62*		*30 - 124*
Tetrachloro-m-xylene	*73*		*30 - 124*

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

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 730754

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	9.1	U	17.9	17.4		ug/Kg	☼	97	37 - 126
4,4'-DDE	9.1	U F2	17.9	16.3		ug/Kg	☼	91	34 - 120
4,4'-DDT	5.8	J B	17.9	18.7		ug/Kg	☼	72	43 - 123
Aldrin	9.1	U	17.9	17.4		ug/Kg	☼	97	37 - 125
alpha-BHC	9.1	U	17.9	15.2		ug/Kg	☼	85	39 - 120
beta-BHC	9.1	U	17.9	12.1		ug/Kg	☼	68	36 - 120
Chlordane (.alpha.)	9.1	U	17.9	17.2		ug/Kg	☼	97	35 - 120
delta-BHC	2.0	J	17.9	16.3		ug/Kg	☼	80	34 - 120
Dieldrin	9.1	U	17.9	18.1		ug/Kg	☼	102	45 - 120
Endosulfan I	9.1	U	17.9	13.5		ug/Kg	☼	75	39 - 120
Endosulfan II	9.1	U	17.9	15.8		ug/Kg	☼	89	34 - 126
Endosulfan sulfate	9.1	U	17.9	17.1		ug/Kg	☼	96	27 - 130
Endrin	9.1	U	17.9	14.6		ug/Kg	☼	82	47 - 121
Heptachlor	9.1	U	17.9	13.8		ug/Kg	☼	77	42 - 120
Lindane	9.1	U	17.9	18.5		ug/Kg	☼	104	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*68*		*45 - 120*
DCB Decachlorobiphenyl	*129*	*S1+*	*45 - 120*
Tetrachloro-m-xylene	*76*		*30 - 124*
Tetrachloro-m-xylene	*82*		*30 - 124*

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 730754

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	9.1	U	17.9	16.0		ug/Kg	☼	89	37 - 126	8	21
4,4'-DDE	9.1	U F2	17.9	13.1	F2	ug/Kg	☼	73	34 - 120	21	18
4,4'-DDT	5.8	J B	17.9	18.8		ug/Kg	☼	72	43 - 123	1	25
Aldrin	9.1	U	17.9	16.4		ug/Kg	☼	92	37 - 125	6	12
alpha-BHC	9.1	U	17.9	14.8		ug/Kg	☼	83	39 - 120	3	15
beta-BHC	9.1	U	17.9	11.4		ug/Kg	☼	63	36 - 120	6	19
Chlordane (.alpha.)	9.1	U	17.9	14.5		ug/Kg	☼	81	35 - 120	17	23
delta-BHC	2.0	J	17.9	15.4		ug/Kg	☼	75	34 - 120	6	14
Dieldrin	9.1	U	17.9	16.3		ug/Kg	☼	91	45 - 120	11	12
Endosulfan I	9.1	U	17.9	11.3		ug/Kg	☼	63	39 - 120	18	18
Endosulfan II	9.1	U	17.9	14.9		ug/Kg	☼	83	34 - 126	6	26
Endosulfan sulfate	9.1	U	17.9	17.1		ug/Kg	☼	95	27 - 130	0	35
Endrin	9.1	U	17.9	13.2		ug/Kg	☼	73	47 - 121	10	20
Heptachlor	9.1	U	17.9	13.4		ug/Kg	☼	75	42 - 120	3	22
Lindane	9.1	U	17.9	18.9		ug/Kg	☼	106	50 - 120	2	12

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*45 - 120*
DCB Decachlorobiphenyl	*209*	*S1+*	*45 - 120*
Tetrachloro-m-xylene	*71*		*30 - 124*
Tetrachloro-m-xylene	*80*		*30 - 124*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 730754

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	91	U F1	18.1	91	U F1	ug/Kg	☼	0	37 - 126
4,4'-DDE	91	U	18.1	91	U	ug/Kg	☼	NC	34 - 120
4,4'-DDT	40	J B	18.1	53.5	J	ug/Kg	☼	73	43 - 123
Aldrin	91	U	18.1	23.4	J	ug/Kg	☼	NC	37 - 125
alpha-BHC	91	U F1	18.1	27.1	J F1	ug/Kg	☼	150	39 - 120
beta-BHC	91	U F1	18.1	18.7	J	ug/Kg	☼	103	36 - 120
Chlordane (.alpha.)	91	U	18.1	91	U	ug/Kg	☼	NC	35 - 120
delta-BHC	91	U F1	18.1	30.6	J F1	ug/Kg	☼	169	34 - 120
Dieldrin	91	U	18.1	91	U	ug/Kg	☼	NC	45 - 120
Endosulfan I	91	U F1	18.1	91	U F1	ug/Kg	☼	0	39 - 120
Endosulfan II	91	U F1	18.1	91	U F1	ug/Kg	☼	0	34 - 126
Endosulfan sulfate	91	U F1	18.1	91	U F1	ug/Kg	☼	0	27 - 130
Endrin	91	U F1	18.1	91	U F1	ug/Kg	☼	0	47 - 121
Heptachlor	91	U	18.1	91	U	ug/Kg	☼	NC	42 - 120
Lindane	91	U F1	18.1	29.0	J F1	ug/Kg	☼	160	50 - 120

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: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 730754

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	91	U F1	17.7	89	U F1	ug/Kg	☼	0	37 - 126	NC	21
4,4'-DDE	91	U	17.7	89	U	ug/Kg	☼	NC	34 - 120	NC	18
4,4'-DDT	40	J B	17.7	52.4	J	ug/Kg	☼	69	43 - 123	2	25
Aldrin	91	U	17.7	89	U	ug/Kg	☼	NC	37 - 125	NC	12
alpha-BHC	91	U F1	17.7	24.6	J F1	ug/Kg	☼	139	39 - 120	10	15
beta-BHC	91	U F1	17.7	89	U F1	ug/Kg	☼	0	36 - 120	NC	19
Chlordane (.alpha.)	91	U	17.7	89	U	ug/Kg	☼	NC	35 - 120	NC	23
delta-BHC	91	U F1	17.7	27.6	J F1	ug/Kg	☼	156	34 - 120	10	14
Dieldrin	91	U	17.7	89	U	ug/Kg	☼	NC	45 - 120	NC	12
Endosulfan I	91	U F1	17.7	89	U F1	ug/Kg	☼	0	39 - 120	NC	18
Endosulfan II	91	U F1	17.7	89	U F1	ug/Kg	☼	0	34 - 126	NC	26
Endosulfan sulfate	91	U F1	17.7	89	U F1	ug/Kg	☼	0	27 - 130	NC	35
Endrin	91	U F1	17.7	89	U	ug/Kg	☼	NC	47 - 121	NC	20
Heptachlor	91	U	17.7	89	U	ug/Kg	☼	NC	42 - 120	NC	22
Lindane	91	U F1	17.7	26.2	J F1	ug/Kg	☼	148	50 - 120	10	12

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 480-730606/1-A
Matrix: Solid
Analysis Batch: 730758

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.25	U	0.25	0.049	mg/Kg		10/31/24 09:17	11/02/24 02:10	1
PCB-1221	0.25	U	0.25	0.049	mg/Kg		10/31/24 09:17	11/02/24 02:10	1
PCB-1232	0.25	U	0.25	0.049	mg/Kg		10/31/24 09:17	11/02/24 02:10	1
PCB-1242	0.25	U	0.25	0.049	mg/Kg		10/31/24 09:17	11/02/24 02:10	1
PCB-1248	0.25	U	0.25	0.049	mg/Kg		10/31/24 09:17	11/02/24 02:10	1
PCB-1254	0.25	U	0.25	0.12	mg/Kg		10/31/24 09:17	11/02/24 02:10	1
PCB-1260	0.25	U	0.25	0.12	mg/Kg		10/31/24 09:17	11/02/24 02:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*133*		*60 - 154*	*10/31/24 09:17*	*11/02/24 02:10*	*1*
Tetrachloro-m-xylene	*128*		*60 - 154*	*10/31/24 09:17*	*11/02/24 02:10*	*1*
DCB Decachlorobiphenyl	*135*		*65 - 174*	*10/31/24 09:17*	*11/02/24 02:10*	*1*
DCB Decachlorobiphenyl	*160*		*65 - 174*	*10/31/24 09:17*	*11/02/24 02:10*	*1*

Lab Sample ID: LCS 480-730606/2-A
Matrix: Solid
Analysis Batch: 730758

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730606

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			2.50	3.37		mg/Kg		135	51 - 185		
PCB-1260			2.50	3.68		mg/Kg		147	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*143*		*60 - 154*
Tetrachloro-m-xylene	*138*		*60 - 154*
DCB Decachlorobiphenyl	*138*		*65 - 174*
DCB Decachlorobiphenyl	*165*		*65 - 174*

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 730758

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	0.26	U	2.66	3.04		mg/Kg	☼	114	50 - 177		
PCB-1260	0.26	U	2.66	2.98		mg/Kg	☼	112	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*127*		*60 - 154*
Tetrachloro-m-xylene	*125*		*60 - 154*
DCB Decachlorobiphenyl	*119*		*65 - 174*
DCB Decachlorobiphenyl	*141*		*65 - 174*

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 730758

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.26	U	2.73	2.59		mg/Kg	☼	95	50 - 177	16	50

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

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 730758

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1260	0.26	U	2.73	2.54		mg/Kg	☼	93	33 - 200	16	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*119*		*60 - 154*
Tetrachloro-m-xylene	*114*		*60 - 154*
DCB Decachlorobiphenyl	*110*		*65 - 174*
DCB Decachlorobiphenyl	*132*		*65 - 174*

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 730758

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.24	U	2.72	2.18		mg/Kg	☼	80	50 - 177
PCB-1260	0.24	U	2.72	2.22		mg/Kg	☼	82	33 - 200

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*114*		*60 - 154*
Tetrachloro-m-xylene	*117*		*60 - 154*
DCB Decachlorobiphenyl	*107*		*65 - 174*
DCB Decachlorobiphenyl	*126*		*65 - 174*

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 730758

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.24	U	2.71	2.09		mg/Kg	☼	77	50 - 177	5	50
PCB-1260	0.24	U	2.71	2.10		mg/Kg	☼	78	33 - 200	6	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*116*		*60 - 154*
Tetrachloro-m-xylene	*116*		*60 - 154*
DCB Decachlorobiphenyl	*107*		*65 - 174*
DCB Decachlorobiphenyl	*127*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-730964/1-A
Matrix: Solid
Analysis Batch: 731215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.0	ug/Kg		11/03/24 06:56	11/05/24 12:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*28 - 129*	*11/03/24 06:56*	*11/05/24 12:39*	*1*
2,4-Dichlorophenylacetic acid	*82*		*28 - 129*	*11/03/24 06:56*	*11/05/24 12:39*	*1*

Method: 8151A - Herbicides (GC)

Lab Sample ID: LCS 480-730964/2-A
Matrix: Solid
Analysis Batch: 731215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730964

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)			66.7	48.7		ug/Kg		73	39 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*80*		*28 - 129*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 731215

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)	18	U	71.6	49.1		ug/Kg	☼	69	22 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 731215

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP (Silvex)	18	U	72.8	49.5		ug/Kg	☼	68	22 - 140	1	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 731215

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)	18	U	72.4	31.3		ug/Kg	☼	43	22 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*46*		*28 - 129*
2,4-Dichlorophenylacetic acid	*43*		*28 - 129*

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 731215

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP (Silvex)	18	U	72.0	46.4		ug/Kg	☼	64	22 - 140	39	50

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

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 731215

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730964

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	74		28 - 129
2,4-Dichlorophenylacetic acid	66		28 - 129

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-633445/1-A
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.80	U	0.80	0.20	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.10	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.0	U	2.0	0.50	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0	U	2.0	0.50	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	0.80	0.20	ug/Kg		11/01/24 07:50	11/02/24 14:43	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-633445/1-A
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	0.80	0.20	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.10	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.10	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.80	U	0.80	0.20	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.80	U	0.80	0.20	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.10	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	1.0	0.25	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.050	ug/Kg		11/01/24 07:50	11/02/24 14:43	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.10	ug/Kg		11/01/24 07:50	11/02/24 14:43	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*102*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C5 PFPeA	*93.1*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C5 PFHxA	*96.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C4 PFHpA	*99.1*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C8 PFOA	*100*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C9 PFNA	*96.0*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C6 PFDA	*99.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C7 PFUnA	*96.8*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C2 PFTeDA	*83.4*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C3 PFBS	*104*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C3 PFHxS	*98.2*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C8 PFOS	*95.1*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C8 PFOSA	*83.7*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
d3-NMeFOSAA	*94.8*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
d5-NEtFOSAA	*142*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
M2-4:2 FTS	*107*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
M2-6:2 FTS	*113*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
M2-8:2 FTS	*108*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C3 HFPO-DA	*98.7*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
d7-N-MeFOSE-M	*80.6*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
d9-N-EtFOSE-M	*78.5*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
d5-NEtPFOSA	*68.4*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
D3-NMeFOSA	*66.3*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*
13C2-PFDoDA	*96.9*		*20 - 150*	*11/01/24 07:50*	*11/02/24 14:43*	*1*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-633445/3-A
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	10.0	10.9		ug/Kg		109	40 - 150
Perfluoropentanoic acid (PFPeA)	5.00	5.44		ug/Kg		109	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.78		ug/Kg		111	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.71		ug/Kg		109	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.59		ug/Kg		103	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.64		ug/Kg		106	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	2.69		ug/Kg		107	40 - 150
Perfluoroundecanoic acid (PFUnA)	2.50	2.72		ug/Kg		109	40 - 150
Perfluorododecanoic acid (PFDoA)	2.50	2.64		ug/Kg		106	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.66		ug/Kg		106	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.80		ug/Kg		112	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.21	2.44		ug/Kg		110	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.57		ug/Kg		110	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.42		ug/Kg		106	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.38	2.49		ug/Kg		105	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.32	2.61		ug/Kg		113	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	2.61		ug/Kg		109	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	2.04		ug/Kg		84	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	10.3		ug/Kg		110	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	10.1		ug/Kg		106	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	9.67		ug/Kg		101	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.62		ug/Kg		105	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.92		ug/Kg		117	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.86		ug/Kg		114	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.62		ug/Kg		105	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.33		ug/Kg		93	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	27.8		ug/Kg		111	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	25.9		ug/Kg		104	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	10.6		ug/Kg		106	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	10.5		ug/Kg		111	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-633445/3-A
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633445

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoro-4-methoxybutanoic acid (PFMBA)			5.00	5.49		ug/Kg		110	40 - 150		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			5.00	4.77		ug/Kg		95	40 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			9.32	9.60		ug/Kg		103	40 - 150		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			9.42	8.41		ug/Kg		89	40 - 150		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			4.45	4.74		ug/Kg		106	40 - 150		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			12.5	12.1		ug/Kg		97	40 - 150		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			62.5	61.0		ug/Kg		98	40 - 150		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			62.5	57.2		ug/Kg		92	40 - 150		
Perfluorodecanesulfonic acid (PFDS)			2.41	2.55		ug/Kg		106	40 - 150		
Perfluoro-3-methoxypropanoic acid (PFMPA)			5.00	5.13		ug/Kg		103	40 - 150		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*101*		*20 - 150*
13C5 PFPeA	*90.6*		*20 - 150*
13C5 PFHxA	*94.1*		*20 - 150*
13C4 PFHpA	*95.9*		*20 - 150*
13C8 PFOA	*95.9*		*20 - 150*
13C9 PFNA	*91.8*		*20 - 150*
13C6 PFDA	*90.4*		*20 - 150*
13C7 PFUnA	*87.4*		*20 - 150*
13C2 PFTeDA	*73.1*		*20 - 150*
13C3 PFBS	*93.7*		*20 - 150*
13C3 PFHxS	*91.1*		*20 - 150*
13C8 PFOS	*87.5*		*20 - 150*
13C8 PFOSA	*78.6*		*20 - 150*
d3-NMeFOSAA	*87.2*		*20 - 150*
d5-NEtFOSAA	*98.6*		*20 - 150*
M2-4:2 FTS	*99.6*		*20 - 150*
M2-6:2 FTS	*98.8*		*20 - 150*
M2-8:2 FTS	*103*		*20 - 150*
13C3 HFPO-DA	*95.6*		*20 - 150*
d7-N-MeFOSE-M	*74.8*		*20 - 150*
d9-N-EtFOSE-M	*73.4*		*20 - 150*
d5-NEtPFOSA	*54.2*		*20 - 150*
D3-NMeFOSA	*56.7*		*20 - 150*
13C2-PFDoDA	*91.7*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-633445/2-A
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	0.884		ug/Kg		111	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.435		ug/Kg		109	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.229		ug/Kg		114	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.213		ug/Kg		106	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.222		ug/Kg		111	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.224		ug/Kg		112	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.222		ug/Kg		111	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.200	0.216		ug/Kg		108	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.212		ug/Kg		106	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.236		ug/Kg		118	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.205		ug/Kg		102	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.206		ug/Kg		116	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.205		ug/Kg		109	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.207		ug/Kg		114	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.223		ug/Kg		117	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.186	0.228		ug/Kg		123	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.192	0.207		ug/Kg		108	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.168	J	ug/Kg		87	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.832		ug/Kg		111	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.915		ug/Kg		121	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.892		ug/Kg		116	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.225		ug/Kg		112	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.239		ug/Kg		120	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.207		ug/Kg		103	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.250		ug/Kg		125	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.209		ug/Kg		104	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.45		ug/Kg		122	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	2.20		ug/Kg		110	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	0.848		ug/Kg		106	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.813		ug/Kg		108	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-633445/2-A
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633445

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoro-4-methoxybutanoic acid (PFMBA)			0.400	0.437		ug/Kg		109	40 - 150		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			0.400	0.384	J	ug/Kg		96	40 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			0.746	0.814		ug/Kg		109	40 - 150		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			0.754	0.732	J	ug/Kg		97	40 - 150		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			0.356	0.409		ug/Kg		115	40 - 150		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			1.00	1.05		ug/Kg		105	40 - 150		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			5.00	5.08		ug/Kg		102	40 - 150		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			5.00	4.68	J	ug/Kg		94	40 - 150		
Perfluorodecanesulfonic acid (PFDS)			0.193	0.212		ug/Kg		110	40 - 150		
Perfluoro-3-methoxypropanoic acid (PFMPA)			0.400	0.421		ug/Kg		105	40 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*92.3*		*20 - 150*
13C5 PFPeA	*76.9*		*20 - 150*
13C5 PFHxA	*79.1*		*20 - 150*
13C4 PFHpA	*82.5*		*20 - 150*
13C8 PFOA	*84.9*		*20 - 150*
13C9 PFNA	*85.9*		*20 - 150*
13C6 PFDA	*80.4*		*20 - 150*
13C7 PFUnA	*82.2*		*20 - 150*
13C2 PFTeDA	*68.3*		*20 - 150*
13C3 PFBS	*86.2*		*20 - 150*
13C3 PFHxS	*81.6*		*20 - 150*
13C8 PFOS	*81.7*		*20 - 150*
13C8 PFOSA	*71.0*		*20 - 150*
d3-NMeFOSAA	*77.9*		*20 - 150*
d5-NEtFOSAA	*92.6*		*20 - 150*
M2-4:2 FTS	*93.5*		*20 - 150*
M2-6:2 FTS	*91.6*		*20 - 150*
M2-8:2 FTS	*91.2*		*20 - 150*
13C3 HFPO-DA	*83.4*		*20 - 150*
d7-N-MeFOSE-M	*68.2*		*20 - 150*
d9-N-EtFOSE-M	*64.2*		*20 - 150*
d5-NEtPFOSA	*52.3*		*20 - 150*
D3-NMeFOSA	*50.6*		*20 - 150*
13C2-PFDoDA	*80.6*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.74	U	9.14	10.1		ug/Kg	☼	110	40 - 150
Perfluoropentanoic acid (PFPeA)	0.37	U	4.57	5.14		ug/Kg	☼	113	40 - 150
Perfluorohexanoic acid (PFHxA)	0.18	U	2.28	2.72		ug/Kg	☼	119	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.18	U	2.28	2.64		ug/Kg	☼	116	40 - 150
Perfluorooctanoic acid (PFOA)	0.18	U	2.28	2.47		ug/Kg	☼	108	40 - 150
Perfluorononanoic acid (PFNA)	0.18	U	2.28	2.51		ug/Kg	☼	110	40 - 150
Perfluorodecanoic acid (PFDA)	0.18	U	2.28	2.39		ug/Kg	☼	105	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.18	U	2.28	2.48		ug/Kg	☼	108	40 - 150
Perfluorododecanoic acid (PFDoA)	0.18	U	2.28	2.43		ug/Kg	☼	106	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.18	U	2.28	2.84		ug/Kg	☼	124	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	2.28	2.64		ug/Kg	☼	116	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.18	U	2.02	2.29		ug/Kg	☼	113	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	2.14	2.37		ug/Kg	☼	111	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	2.08	2.31		ug/Kg	☼	111	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	2.17	2.47		ug/Kg	☼	114	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.11	J	2.12	2.54		ug/Kg	☼	115	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.18	U	2.19	2.22		ug/Kg	☼	101	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	2.21	1.83		ug/Kg	☼	83	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.74	U	8.53	8.48		ug/Kg	☼	99	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.74	U	8.66	8.84		ug/Kg	☼	102	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.74	U	8.75	9.22		ug/Kg	☼	105	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.18	U	2.28	2.42		ug/Kg	☼	106	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	2.28	2.53		ug/Kg	☼	111	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	2.28	2.47		ug/Kg	☼	108	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	2.28	2.46		ug/Kg	☼	108	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	2.28	2.27		ug/Kg	☼	99	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	22.8	23.2		ug/Kg	☼	102	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	22.8	23.9		ug/Kg	☼	105	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.74	U	9.14	9.75		ug/Kg	☼	107	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.74	U	8.61	9.68		ug/Kg	☼	112	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U	4.57	4.88		ug/Kg	☼	107	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U	4.57	4.54		ug/Kg	☼	99	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.74	U	8.52	10.0		ug/Kg	☼	117	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.74	U	8.61	8.42		ug/Kg	☼	98	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U	4.07	5.11		ug/Kg	☼	126	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.92	U	11.4	9.82		ug/Kg	☼	86	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.6	U	57.1	55.4		ug/Kg	☼	97	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.6	U	57.1	53.3		ug/Kg	☼	93	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.18	U	2.20	2.34		ug/Kg	☼	106	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U	4.57	4.65		ug/Kg	☼	102	40 - 150

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*83.4*		*20 - 150*
13C5 PFPeA	*74.7*		*20 - 150*
13C5 PFHxA	*73.1*		*20 - 150*
13C4 PFHpA	*76.6*		*20 - 150*
13C8 PFOA	*72.5*		*20 - 150*
13C9 PFNA	*74.0*		*20 - 150*
13C6 PFDA	*73.5*		*20 - 150*
13C7 PFUnA	*71.2*		*20 - 150*
13C2 PFTeDA	*68.9*		*20 - 150*
13C3 PFBS	*75.9*		*20 - 150*
13C3 PFHxS	*75.4*		*20 - 150*
13C8 PFOS	*69.4*		*20 - 150*
13C8 PFOSA	*84.7*		*20 - 150*
d3-NMeFOSAA	*81.1*		*20 - 150*
d5-NEtFOSAA	*88.9*		*20 - 150*
M2-4:2 FTS	*100*		*20 - 150*
M2-6:2 FTS	*96.4*		*20 - 150*
M2-8:2 FTS	*102*		*20 - 150*
13C3 HFPO-DA	*77.0*		*20 - 150*
d7-N-MeFOSE-M	*67.0*		*20 - 150*
d9-N-EtFOSE-M	*63.5*		*20 - 150*
d5-NEtPFOSA	*70.9*		*20 - 150*
D3-NMeFOSA	*64.2*		*20 - 150*
13C2-PFDoDA	*79.7*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.74	U	9.14	10.2		ug/Kg	☼	111	40 - 150	1	30
Perfluoropentanoic acid (PFPeA)	0.37	U	4.57	5.15		ug/Kg	☼	113	40 - 150	0	30
Perfluorohexanoic acid (PFHxA)	0.18	U	2.28	2.67		ug/Kg	☼	117	40 - 150	2	30
Perfluoroheptanoic acid (PFHpA)	0.18	U	2.28	2.54		ug/Kg	☼	111	40 - 150	4	30
Perfluorooctanoic acid (PFOA)	0.18	U	2.28	2.48		ug/Kg	☼	108	40 - 150	0	30
Perfluorononanoic acid (PFNA)	0.18	U	2.28	2.47		ug/Kg	☼	108	40 - 150	2	30
Perfluorodecanoic acid (PFDA)	0.18	U	2.28	2.55		ug/Kg	☼	112	40 - 150	7	30
Perfluoroundecanoic acid (PFUnA)	0.18	U	2.28	2.49		ug/Kg	☼	109	40 - 150	1	30
Perfluorododecanoic acid (PFDoA)	0.18	U	2.28	2.45		ug/Kg	☼	107	40 - 150	1	30
Perfluorotridecanoic acid (PFTrDA)	0.18	U	2.28	2.73		ug/Kg	☼	120	40 - 150	4	30
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	2.28	2.55		ug/Kg	☼	112	40 - 150	3	30
Perfluorobutanesulfonic acid (PFBS)	0.18	U	2.02	2.37		ug/Kg	☼	117	40 - 150	3	30
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	2.14	2.31		ug/Kg	☼	108	40 - 150	3	30
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	2.08	2.25		ug/Kg	☼	108	40 - 150	3	30
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	2.17	2.41		ug/Kg	☼	111	40 - 150	3	30
Perfluorooctanesulfonic acid (PFOS)	0.11	J	2.12	2.57		ug/Kg	☼	116	40 - 150	1	30
Perfluorononanesulfonic acid (PFNS)	0.18	U	2.19	2.39		ug/Kg	☼	109	40 - 150	8	30
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	2.21	1.91		ug/Kg	☼	87	40 - 150	4	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.74	U	8.53	9.13		ug/Kg	☼	107	40 - 150	7	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.74	U	8.66	8.96		ug/Kg	☼	103	40 - 150	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.74	U	8.75	8.91		ug/Kg	☼	102	40 - 150	3	30
Perfluorooctanesulfonamide (PFOSA)	0.18	U	2.28	2.49		ug/Kg	☼	109	40 - 150	3	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	2.28	2.59		ug/Kg	☼	113	40 - 150	2	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	2.28	2.55		ug/Kg	☼	112	40 - 150	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	2.28	2.54		ug/Kg	☼	111	40 - 150	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	2.28	2.30		ug/Kg	☼	101	40 - 150	1	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	22.8	25.1		ug/Kg	☼	110	40 - 150	8	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	22.8	25.8		ug/Kg	☼	113	40 - 150	8	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.74	U	9.14	10.2		ug/Kg	☼	111	40 - 150	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.74	U	8.61	9.88		ug/Kg	☼	115	40 - 150	2	30

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U	4.57	5.10		ug/Kg	☼	112	40 - 150	4	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U	4.57	4.37		ug/Kg	☼	96	40 - 150	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.74	U	8.52	9.83		ug/Kg	☼	115	40 - 150	2	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.74	U	8.61	8.47		ug/Kg	☼	98	40 - 150	1	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U	4.07	4.56		ug/Kg	☼	112	40 - 150	11	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.92	U	11.4	11.2		ug/Kg	☼	98	40 - 150	13	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.6	U	57.1	55.3		ug/Kg	☼	97	40 - 150	0	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.6	U	57.1	53.2		ug/Kg	☼	93	40 - 150	0	30
Perfluorodecanesulfonic acid (PFDS)	0.18	U	2.20	2.37		ug/Kg	☼	108	40 - 150	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U	4.57	4.84		ug/Kg	☼	106	40 - 150	4	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*103*		*20 - 150*
13C5 PFPeA	*86.2*		*20 - 150*
13C5 PFHxA	*91.7*		*20 - 150*
13C4 PFHpA	*93.7*		*20 - 150*
13C8 PFOA	*92.9*		*20 - 150*
13C9 PFNA	*94.1*		*20 - 150*
13C6 PFDA	*94.4*		*20 - 150*
13C7 PFUnA	*92.3*		*20 - 150*
13C2 PFTeDA	*101*		*20 - 150*
13C3 PFBS	*91.4*		*20 - 150*
13C3 PFHxS	*92.1*		*20 - 150*
13C8 PFOS	*85.9*		*20 - 150*
13C8 PFOSA	*92.8*		*20 - 150*
d3-NMeFOSAA	*90.1*		*20 - 150*
d5-NEtFOSAA	*103*		*20 - 150*
M2-4:2 FTS	*116*		*20 - 150*
M2-6:2 FTS	*118*		*20 - 150*
M2-8:2 FTS	*125*		*20 - 150*
13C3 HFPO-DA	*91.5*		*20 - 150*
d7-N-MeFOSE-M	*75.4*		*20 - 150*
d9-N-EtFOSE-M	*72.0*		*20 - 150*
d5-NEtPFOSA	*77.0*		*20 - 150*
D3-NMeFOSA	*75.9*		*20 - 150*
13C2-PFDoDA	*102*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.71	U	8.94	9.73		ug/Kg	☼	109	40 - 150
Perfluoropentanoic acid (PFPeA)	0.36	U	4.47	4.89		ug/Kg	☼	109	40 - 150
Perfluorohexanoic acid (PFHxA)	0.18	U	2.23	2.36		ug/Kg	☼	106	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.18	U	2.23	2.47		ug/Kg	☼	110	40 - 150
Perfluorooctanoic acid (PFOA)	0.18	U	2.23	2.36		ug/Kg	☼	105	40 - 150
Perfluorononanoic acid (PFNA)	0.18	U	2.23	2.37		ug/Kg	☼	106	40 - 150
Perfluorodecanoic acid (PFDA)	0.18	U	2.23	2.51		ug/Kg	☼	112	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.18	U	2.23	2.42		ug/Kg	☼	108	40 - 150
Perfluorododecanoic acid (PFDoA)	0.18	U	2.23	2.35		ug/Kg	☼	105	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.18	U	2.23	2.31		ug/Kg	☼	103	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	2.23	2.43		ug/Kg	☼	109	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.18	U	1.98	2.14		ug/Kg	☼	108	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	2.10	2.35		ug/Kg	☼	112	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	2.03	2.18		ug/Kg	☼	107	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	2.13	2.16		ug/Kg	☼	102	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.10	J	2.07	2.35		ug/Kg	☼	108	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.18	U	2.14	2.38		ug/Kg	☼	111	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	2.16	2.07		ug/Kg	☼	96	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.71	U	8.35	8.68		ug/Kg	☼	104	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.71	U	8.47	8.92		ug/Kg	☼	105	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.71	U	8.56	9.08		ug/Kg	☼	106	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.18	U	2.23	2.49		ug/Kg	☼	111	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	2.23	2.46		ug/Kg	☼	110	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	2.23	2.37		ug/Kg	☼	106	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	2.23	2.41		ug/Kg	☼	108	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	2.23	2.29		ug/Kg	☼	103	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	22.3	25.8		ug/Kg	☼	115	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	22.3	25.0		ug/Kg	☼	112	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.71	U	8.94	9.92		ug/Kg	☼	111	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.71	U	8.42	9.78		ug/Kg	☼	116	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	4.47	4.99		ug/Kg	☼	112	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	4.47	4.28		ug/Kg	☼	96	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.71	U	8.33	9.70		ug/Kg	☼	116	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.71	U	8.42	8.65		ug/Kg	☼	103	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	3.98	4.33		ug/Kg	☼	109	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.89	U	11.2	9.78		ug/Kg	☼	88	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	55.9	48.7		ug/Kg	☼	87	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.4	U	55.9	45.8		ug/Kg	☼	82	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.18	U	2.15	2.28		ug/Kg	☼	106	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	4.47	4.79		ug/Kg	☼	107	40 - 150

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*97.5*		*20 - 150*
13C5 PFPeA	*81.7*		*20 - 150*
13C5 PFHxA	*87.8*		*20 - 150*
13C4 PFHpA	*89.5*		*20 - 150*
13C8 PFOA	*85.0*		*20 - 150*
13C9 PFNA	*87.6*		*20 - 150*
13C6 PFDA	*82.9*		*20 - 150*
13C7 PFUnA	*84.6*		*20 - 150*
13C2 PFTeDA	*99.4*		*20 - 150*
13C3 PFBS	*90.4*		*20 - 150*
13C3 PFHxS	*86.1*		*20 - 150*
13C8 PFOS	*81.8*		*20 - 150*
13C8 PFOSA	*68.1*		*20 - 150*
d3-NMeFOSAA	*73.2*		*20 - 150*
d5-NEtFOSAA	*86.3*		*20 - 150*
M2-4:2 FTS	*104*		*20 - 150*
M2-6:2 FTS	*99.8*		*20 - 150*
M2-8:2 FTS	*102*		*20 - 150*
13C3 HFPO-DA	*86.5*		*20 - 150*
d7-N-MeFOSE-M	*64.2*		*20 - 150*
d9-N-EtFOSE-M	*62.8*		*20 - 150*
d5-NEtPFOSA	*64.5*		*20 - 150*
D3-NMeFOSA	*62.8*		*20 - 150*
13C2-PFDoDA	*92.1*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.71	U	8.94	10.1		ug/Kg	☼	113	40 - 150	3	30
Perfluoropentanoic acid (PFPeA)	0.36	U	4.47	4.90		ug/Kg	☼	110	40 - 150	0	30
Perfluorohexanoic acid (PFHxA)	0.18	U	2.23	2.61		ug/Kg	☼	117	40 - 150	10	30
Perfluoroheptanoic acid (PFHpA)	0.18	U	2.23	2.47		ug/Kg	☼	111	40 - 150	0	30
Perfluorooctanoic acid (PFOA)	0.18	U	2.23	2.46		ug/Kg	☼	110	40 - 150	5	30
Perfluorononanoic acid (PFNA)	0.18	U	2.23	2.29		ug/Kg	☼	102	40 - 150	3	30
Perfluorodecanoic acid (PFDA)	0.18	U	2.23	2.41		ug/Kg	☼	108	40 - 150	4	30
Perfluoroundecanoic acid (PFUnA)	0.18	U	2.23	2.44		ug/Kg	☼	109	40 - 150	1	30
Perfluorododecanoic acid (PFDoA)	0.18	U	2.23	2.43		ug/Kg	☼	109	40 - 150	3	30
Perfluorotridecanoic acid (PFTrDA)	0.18	U	2.23	2.53		ug/Kg	☼	113	40 - 150	9	30
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	2.23	2.43		ug/Kg	☼	109	40 - 150	0	30
Perfluorobutanesulfonic acid (PFBS)	0.18	U	1.98	2.26		ug/Kg	☼	114	40 - 150	5	30
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	2.10	2.36		ug/Kg	☼	113	40 - 150	1	30
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	2.03	2.16		ug/Kg	☼	106	40 - 150	1	30
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	2.13	2.28		ug/Kg	☼	107	40 - 150	5	30
Perfluorooctanesulfonic acid (PFOS)	0.10	J	2.07	2.41		ug/Kg	☼	111	40 - 150	2	30
Perfluorononanesulfonic acid (PFNS)	0.18	U	2.14	2.36		ug/Kg	☼	110	40 - 150	1	30
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	2.16	1.90		ug/Kg	☼	88	40 - 150	8	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.71	U	8.35	9.02		ug/Kg	☼	108	40 - 150	4	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.71	U	8.47	9.01		ug/Kg	☼	106	40 - 150	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.71	U	8.56	8.94		ug/Kg	☼	104	40 - 150	2	30
Perfluorooctanesulfonamide (PFOSA)	0.18	U	2.23	2.65		ug/Kg	☼	118	40 - 150	6	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	2.23	2.62		ug/Kg	☼	117	40 - 150	6	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	2.23	2.54		ug/Kg	☼	113	40 - 150	7	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	2.23	2.54		ug/Kg	☼	114	40 - 150	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	2.23	2.19		ug/Kg	☼	98	40 - 150	5	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	22.3	25.8		ug/Kg	☼	116	40 - 150	0	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	22.3	24.5		ug/Kg	☼	109	40 - 150	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.71	U	8.94	10.1		ug/Kg	☼	113	40 - 150	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.71	U	8.42	9.68		ug/Kg	☼	115	40 - 150	1	30

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	4.47	5.14		ug/Kg	☼	115	40 - 150	3	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	4.47	4.39		ug/Kg	☼	98	40 - 150	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.71	U	8.33	9.32		ug/Kg	☼	112	40 - 150	4	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.71	U	8.42	8.20		ug/Kg	☼	97	40 - 150	5	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	3.98	4.59		ug/Kg	☼	115	40 - 150	6	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.89	U	11.2	9.96		ug/Kg	☼	89	40 - 150	2	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	55.9	52.6		ug/Kg	☼	94	40 - 150	8	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.4	U	55.9	47.6		ug/Kg	☼	85	40 - 150	4	30
Perfluorodecanesulfonic acid (PFDS)	0.18	U	2.15	2.25		ug/Kg	☼	105	40 - 150	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	4.47	4.77		ug/Kg	☼	107	40 - 150	1	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*99.3*		*20 - 150*
13C5 PFPeA	*82.8*		*20 - 150*
13C5 PFHxA	*87.0*		*20 - 150*
13C4 PFHpA	*91.7*		*20 - 150*
13C8 PFOA	*89.2*		*20 - 150*
13C9 PFNA	*89.6*		*20 - 150*
13C6 PFDA	*89.6*		*20 - 150*
13C7 PFUnA	*83.0*		*20 - 150*
13C2 PFTeDA	*83.8*		*20 - 150*
13C3 PFBS	*91.4*		*20 - 150*
13C3 PFHxS	*89.8*		*20 - 150*
13C8 PFOS	*86.1*		*20 - 150*
13C8 PFOSA	*65.1*		*20 - 150*
d3-NMeFOSAA	*72.9*		*20 - 150*
d5-NEtFOSAA	*83.3*		*20 - 150*
M2-4:2 FTS	*101*		*20 - 150*
M2-6:2 FTS	*100*		*20 - 150*
M2-8:2 FTS	*102*		*20 - 150*
13C3 HFPO-DA	*89.3*		*20 - 150*
d7-N-MeFOSE-M	*72.7*		*20 - 150*
d9-N-EtFOSE-M	*69.9*		*20 - 150*
d5-NEtPFOSA	*59.8*		*20 - 150*
D3-NMeFOSA	*57.5*		*20 - 150*
13C2-PFDoDA	*83.3*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224950-9 DU
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: VP-3 Native (8-9')
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.74	U	0.76	U	ug/Kg	☼	NC	30
Perfluoropentanoic acid (PFPeA)	0.37	U	0.38	U	ug/Kg	☼	NC	30
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorononanoic acid (PFNA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	U	ug/Kg	☼	NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.74	U	0.76	U	ug/Kg	☼	NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.74	U	0.76	U	ug/Kg	☼	NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.74	U	0.76	U	ug/Kg	☼	NC	30
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	U	ug/Kg	☼	NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	U	ug/Kg	☼	NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.74	U	0.76	U	ug/Kg	☼	NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.74	U	0.76	U	ug/Kg	☼	NC	30

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-224950-9 DU
Matrix: Solid
Analysis Batch: 633665

Client Sample ID: VP-3 Native (8-9')
Prep Type: Total/NA
Prep Batch: 633445

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U		0.38	U	ug/Kg	☼			NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U		0.38	U	ug/Kg	☼			NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.74	U		0.76	U	ug/Kg	☼			NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.74	U		0.76	U	ug/Kg	☼			NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U		0.38	U	ug/Kg	☼			NC	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.93	U		0.94	U	ug/Kg	☼			NC	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.6	U		4.7	U	ug/Kg	☼			NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.6	U		4.7	U	ug/Kg	☼			NC	30
Perfluorodecanesulfonic acid (PFDS)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U		0.38	U	ug/Kg	☼			NC	30

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
13C4 PFBA	*91.1*		*20 - 150*
13C5 PFPeA	*76.5*		*20 - 150*
13C5 PFHxA	*83.5*		*20 - 150*
13C4 PFHpA	*85.4*		*20 - 150*
13C8 PFOA	*84.6*		*20 - 150*
13C9 PFNA	*85.6*		*20 - 150*
13C6 PFDA	*84.6*		*20 - 150*
13C7 PFUnA	*80.7*		*20 - 150*
13C2 PFTeDA	*67.9*		*20 - 150*
13C3 PFBS	*87.8*		*20 - 150*
13C3 PFHxS	*82.0*		*20 - 150*
13C8 PFOS	*83.1*		*20 - 150*
13C8 PFOSA	*65.7*		*20 - 150*
d3-NMeFOSAA	*70.6*		*20 - 150*
d5-NEtFOSAA	*73.7*		*20 - 150*
M2-4:2 FTS	*89.7*		*20 - 150*
M2-6:2 FTS	*91.9*		*20 - 150*
M2-8:2 FTS	*90.3*		*20 - 150*
13C3 HFPO-DA	*84.8*		*20 - 150*
d7-N-MeFOSE-M	*65.3*		*20 - 150*
d9-N-EtFOSE-M	*61.5*		*20 - 150*
d5-NEtPFOSA	*50.6*		*20 - 150*
D3-NMeFOSA	*50.6*		*20 - 150*
13C2-PFDoDA	*78.7*		*20 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-730482/1-A
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730482

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.9	U	9.9	8.6	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Antimony	14.9	U	14.9	0.53	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Barium	0.50	U	0.50	0.14	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Beryllium	0.20	U	0.20	0.040	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Cadmium	0.20	U	0.20	0.069	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Calcium	49.6	U	49.6	26.8	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Chromium	0.50	U	0.50	0.36	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Cobalt	0.50	U	0.50	0.099	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Copper	0.99	U	0.99	0.57	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Iron	9.9	U	9.9	8.4	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Lead	0.99	U	0.99	0.46	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Magnesium	19.8	U	19.8	8.4	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Manganese	0.99	U	0.99	0.28	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Nickel	5.0	U	5.0	0.25	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Potassium	29.8	U	29.8	24.1	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Silver	0.60	U	0.60	0.20	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Sodium	139	U	139	60.8	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Thallium	6.0	U	6.0	0.75	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Vanadium	0.50	U	0.50	0.13	mg/Kg		10/30/24 15:30	11/01/24 14:59	1
Zinc	2.0	U	2.0	1.0	mg/Kg		10/30/24 15:30	11/01/24 14:59	1

Lab Sample ID: MB 480-730482/1-A
Matrix: Solid
Analysis Batch: 731091

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730482

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.87	mg/Kg		10/30/24 15:30	11/04/24 13:01	1
Selenium	4.0	U	4.0	0.79	mg/Kg		10/30/24 15:30	11/04/24 13:01	1

Lab Sample ID: LCSSRM 480-730482/2-A
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730482

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum			6780	7265		mg/Kg		107.1	47.8 - 151.9		
Antimony			127	92.59		mg/Kg		72.9	20.2 - 250.4		
Barium			304	286.1		mg/Kg		94.1	75.0 - 125.0		
Beryllium			169	146.8		mg/Kg		86.9	75.1 - 124.9		
Cadmium			212	184.0		mg/Kg		86.8	75.0 - 125.0		
Calcium			5170	4476		mg/Kg		86.6	72.9 - 126.9		
Chromium			180	161.5		mg/Kg		89.7	70.0 - 130.0		
Cobalt			81.6	78.65		mg/Kg		96.4	75.0 - 125.0		

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

Lab Sample ID: LCSSRM 480-730482/2-A
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Copper	205	178.5		mg/Kg		87.1	75.1 - 124.9
Iron	6510	6229		mg/Kg		95.7	11.3 - 202.8
Lead	92.8	90.33		mg/Kg		97.3	81.8 - 118.5
Magnesium	1700	1554		mg/Kg		91.4	55.6 - 144.1
Manganese	531	491.7		mg/Kg		92.6	77.2 - 122.8
Nickel	313	305.0		mg/Kg		97.4	70.0 - 130.0
Potassium	1370	1392		mg/Kg		101.6	52.0 - 148.2
Silver	82.4	67.94		mg/Kg		82.4	71.0 - 128.6
Sodium	486	446.7		mg/Kg		91.9	59.5 - 140.5
Thallium	205	194.0		mg/Kg		94.7	72.2 - 128.3
Vanadium	103	95.43		mg/Kg		92.7	68.0 - 132.0
Zinc	166	148.0		mg/Kg		89.2	70.5 - 130.1

Lab Sample ID: LCSSRM 480-730482/2-A
Matrix: Solid
Analysis Batch: 731091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	311	266.1		mg/Kg		85.6	70.1 - 130.2
Selenium	165	137.1		mg/Kg		83.1	67.9 - 132.1

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	3480	F1	1120	2515	F1	mg/Kg	☼	-86	75 - 125
Antimony	16.2	U F1	110	79.10	F1	mg/Kg	☼	72	75 - 125
Barium	44.0	F1	220	19.46	F1	mg/Kg	☼	-11	75 - 125
Beryllium	0.15	J F1	110	0.0936	J F1	mg/Kg	☼	-0.05	75 - 125
Cadmium	0.65	F1	110	0.512	F1	mg/Kg	☼	-0.1	75 - 125
Chromium	4.6	F1	110	2.64	F1	mg/Kg	☼	-2	75 - 125
Cobalt	1.9	F1	110	0.747	F1	mg/Kg	☼	-1	75 - 125
Copper	37.3	F1 F2	110	27.74	F1	mg/Kg	☼	-9	75 - 125
Iron	4740		1120	3172	4	mg/Kg	☼	-140	75 - 125
Lead	68.9	F1	110	29.45	F1	mg/Kg	☼	-36	75 - 125
Manganese	378	F1	110	356.0	F1	mg/Kg	☼	-20	75 - 125
Nickel	4.1	J F1	110	2.06	J F1	mg/Kg	☼	-2	75 - 125
Potassium	943		5500	5063		mg/Kg	☼	75	75 - 125

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

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.65	U F1	11.0	8.34		mg/Kg	☼	76	75 - 125
Sodium	186		5500	4819		mg/Kg	☼	84	75 - 125
Vanadium	7.5	F1	110	3.63	F1	mg/Kg	☼	-4	75 - 125
Zinc	205	F1	110	134.7	F1	mg/Kg	☼	-63	75 - 125

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	131000		5500	160100	4	mg/Kg	☼	537	75 - 125
Magnesium	68800		5500	99300	4	mg/Kg	☼	554	75 - 125

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 731091

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2.3	F1	220	2.2	U F1	mg/Kg	☼	0	75 - 125
Selenium	4.3	U F1	220	4.4	U F1	mg/Kg	☼	0	75 - 125
Thallium	6.5	U F1	220	6.6	U F1	mg/Kg	☼	0	75 - 125

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	3480	F1	1130	2815	F1	mg/Kg	☼	-59	75 - 125	11	20
Antimony	16.2	U F1	111	73.40	F1	mg/Kg	☼	66	75 - 125	7	20
Barium	44.0	F1	221	19.32	F1	mg/Kg	☼	-11	75 - 125	1	20
Beryllium	0.15	J F1	111	0.105	J F1	mg/Kg	☼	-0.04	75 - 125	11	20
Cadmium	0.65	F1	111	0.466	F1	mg/Kg	☼	-0.2	75 - 125	9	20
Chromium	4.6	F1	111	2.85	F1	mg/Kg	☼	-2	75 - 125	8	20
Cobalt	1.9	F1	111	0.834	F1	mg/Kg	☼	-0.9	75 - 125	11	20
Copper	37.3	F1 F2	111	21.19	F1 F2	mg/Kg	☼	-15	75 - 125	27	20
Iron	4740		1130	3384	4	mg/Kg	☼	-120	75 - 125	6	20
Lead	68.9	F1	111	35.34	F1	mg/Kg	☼	-30	75 - 125	18	20
Manganese	378	F1	111	336.1	F1	mg/Kg	☼	-38	75 - 125	6	20
Nickel	4.1	J F1	111	2.20	J F1	mg/Kg	☼	-2	75 - 125	7	20
Potassium	943		5530	5095		mg/Kg	☼	75	75 - 125	1	20
Silver	0.65	U F1	11.1	8.07	F1	mg/Kg	☼	73	75 - 125	3	20
Sodium	186		5530	4746		mg/Kg	☼	83	75 - 125	2	20
Vanadium	7.5	F1	111	4.09	F1	mg/Kg	☼	-3	75 - 125	12	20
Zinc	205	F1	111	144.2	F1	mg/Kg	☼	-55	75 - 125	7	20

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

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	131000		5530	149100	4	mg/Kg	☼	335	75 - 125	7	20
Magnesium	68800		5530	92640	4	mg/Kg	☼	431	75 - 125	7	20

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 731091

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	2.3	F1	221	1.23	J F1	mg/Kg	☼	-0.5	75 - 125	NC	20
Selenium	4.3	U F1	221	4.4	U F1	mg/Kg	☼	0	75 - 125	NC	20
Thallium	6.5	U F1	221	6.6	U F1	mg/Kg	☼	0	75 - 125	NC	20

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	9050		1150	5911	4	mg/Kg	☼	-273	75 - 125
Antimony	17.2	U F1 F2	113	42.75	F1	mg/Kg	☼	38	75 - 125
Barium	136	F1 F2	225	333.0		mg/Kg	☼	87	75 - 125
Beryllium	0.36	F1 F2	113	56.43	F1	mg/Kg	☼	50	75 - 125
Cadmium	0.56	F1 F2	113	60.11	F1	mg/Kg	☼	53	75 - 125
Chromium	12.3	F1 F2	113	63.13	F1	mg/Kg	☼	45	75 - 125
Cobalt	4.3	F1 F2	113	64.80	F1	mg/Kg	☼	54	75 - 125
Copper	21.5	F1 F2	113	334.6	F1	mg/Kg	☼	278	75 - 125
Iron	12200	F2	1150	25360	4	mg/Kg	☼	1146	75 - 125
Lead	176	F1 F2	113	1111	F1	mg/Kg	☼	830	75 - 125
Magnesium	45500	F2	5640	26890	4	mg/Kg	☼	-330	75 - 125
Manganese	461	F1 F2	113	407.9	4	mg/Kg	☼	-47	75 - 125
Nickel	9.8	F1 F2	113	68.01	F1	mg/Kg	☼	52	75 - 125
Potassium	2300	F1 F2	5640	4527	F1	mg/Kg	☼	40	75 - 125
Silver	0.69	U F1 F2	11.3	6.02	F1	mg/Kg	☼	53	75 - 125
Sodium	547	F1 F2	5640	3368	F1	mg/Kg	☼	50	75 - 125
Vanadium	16.9	F1 F2	113	67.74	F1	mg/Kg	☼	45	75 - 125
Zinc	177	F1 F2	113	396.6	F1	mg/Kg	☼	195	75 - 125

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	108000	F2	5640	63160	4	mg/Kg	☼	-789	75 - 125

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 731091

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.0	F1	225	160.5	F1	mg/Kg	☼	69	75 - 125

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

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 731091

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	4.6	U F1	225	159.5	F1	mg/Kg	☼	71	75 - 125
Thallium	6.9	U	225	191.2		mg/Kg	☼	85	75 - 125

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	9050		1180	5479	4	mg/Kg	☼	-303	75 - 125	8	20
Antimony	17.2	U F1 F2	116	62.51	F1 F2	mg/Kg	☼	54	75 - 125	38	20
Barium	136	F1 F2	231	240.7	F1 F2	mg/Kg	☼	45	75 - 125	32	20
Beryllium	0.36	F1 F2	116	73.97	F1 F2	mg/Kg	☼	64	75 - 125	27	20
Cadmium	0.56	F1 F2	116	80.20	F1 F2	mg/Kg	☼	69	75 - 125	29	20
Chromium	12.3	F1 F2	116	87.54	F1 F2	mg/Kg	☼	65	75 - 125	32	20
Cobalt	4.3	F1 F2	116	86.32	F1 F2	mg/Kg	☼	71	75 - 125	28	20
Copper	21.5	F1 F2	116	115.0	F2	mg/Kg	☼	81	75 - 125	98	20
Iron	12200	F2	1180	19810	4 F2	mg/Kg	☼	646	75 - 125	25	20
Lead	176	F1 F2	116	289.2	F2	mg/Kg	☼	98	75 - 125	117	20
Magnesium	45500	F2	5780	48280	E 4 F2	mg/Kg	☼	48	75 - 125	57	20
Manganese	461	F1 F2	116	627.8	F1 F2	mg/Kg	☼	145	75 - 125	42	20
Nickel	9.8	F1 F2	116	92.16	F1 F2	mg/Kg	☼	71	75 - 125	30	20
Potassium	2300	F1 F2	5780	5661	F1 F2	mg/Kg	☼	58	75 - 125	22	20
Silver	0.69	U F1 F2	11.6	7.90	F1 F2	mg/Kg	☼	68	75 - 125	27	20
Sodium	547	F1 F2	5780	4491	F1 F2	mg/Kg	☼	68	75 - 125	29	20
Vanadium	16.9	F1 F2	116	97.00	F1 F2	mg/Kg	☼	69	75 - 125	36	20
Zinc	177	F1 F2	116	264.0	F2	mg/Kg	☼	75	75 - 125	40	20

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 730895

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	108000	F2	5780	115700	4 F2	mg/Kg	☼	140	75 - 125	59	20

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 731091

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	4.0	F1	231	188.2		mg/Kg	☼	80	75 - 125	16	20
Selenium	4.6	U F1	231	177.1		mg/Kg	☼	77	75 - 125	10	20
Thallium	6.9	U	231	206.7		mg/Kg	☼	89	75 - 125	8	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-730579/1-A
Matrix: Solid
Analysis Batch: 730681
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	U	0.021	0.0048	mg/Kg		10/31/24 09:44	10/31/24 11:54	1

Lab Sample ID: LCSSRM 480-730579/2-A ^10
Matrix: Solid
Analysis Batch: 730681
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730579

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	11.9	11.02		mg/Kg		92.6	59.8 - 139.5

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 730681
Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.12		0.384	0.540		mg/Kg	☼	109	80 - 120

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 730681
Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 730579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.12		0.373	0.529		mg/Kg	☼	109	80 - 120	2	20

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 730705
Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	4.5		0.382	4.42	4	mg/Kg	☼	-27	80 - 120

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 730705
Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 730579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	4.5		0.351	5.19	4	mg/Kg	☼	191	80 - 120	16	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-1006265/1-A
Matrix: Solid
Analysis Batch: 1006293
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1006265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		11/11/24 09:15	11/11/24 10:33	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSI 460-1006265/3-A
Matrix: Solid
Analysis Batch: 1006293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1006265

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	688.5		mg/Kg		97	80 - 120

Lab Sample ID: LCSSRM 460-1006265/2-A
Matrix: Solid
Analysis Batch: 1006293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1006265

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	14.9	13.72		mg/Kg		91.9	84.2 - 114.5

Lab Sample ID: MB 460-1006455/1-A
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		11/12/24 09:00	11/12/24 11:00	1

Lab Sample ID: LCSI 460-1006455/3-A
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	672.5		mg/Kg		95	80 - 120

Lab Sample ID: LCSSRM 460-1006455/2-A
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	14.9	13.36		mg/Kg		89.4	84.2 - 114.5

Lab Sample ID: 480-224950-5 MSI
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.2	U	776	749.9		mg/Kg	☼	97	75 - 125

Lab Sample ID: 480-224950-5 MSS
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.2	U	43.9	36.40		mg/Kg	☼	83	75 - 125

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 480-224950-7 MSI
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.2	U	774	735.6		mg/Kg	☼	95	75 - 125

Lab Sample ID: 480-224950-7 MSS
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.2	U	43.8	40.37		mg/Kg	☼	92	75 - 125

Lab Sample ID: 480-224950-5 DU
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	2.2	U	2.2	U	mg/Kg	☼	NC	20

Lab Sample ID: 480-224950-7 DU
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	2.2	U	2.2	U	mg/Kg	☼	NC	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-731281/1-A
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.98	U	0.98	0.47	mg/Kg		11/05/24 14:00	11/05/24 17:42	1

Lab Sample ID: LCS 480-731281/3-A
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.389		mg/Kg		97	29 - 122

Lab Sample ID: LCS 480-731281/4-A
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.260		mg/Kg		104	29 - 122

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCSSRM 480-731281/2-A
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731281

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			150	79.67		mg/Kg		53.1	38.9 - 138.7		

Lab Sample ID: 480-224950-5 MS
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 731281

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	1.1	U F1	1.28	1.1	U F1	mg/Kg	☼	0	85 - 115		

Lab Sample ID: 480-224950-5 MSD
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: VP-1 (2-4')
Prep Type: Total/NA
Prep Batch: 731281

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	1.1	U F1	1.29	1.1	U F1	mg/Kg	☼	0	85 - 115	NC	15

Lab Sample ID: 480-224950-7 MS
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 731281

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.99	U F1	1.28	1.1	U F1	mg/Kg	☼	0	85 - 115		

Lab Sample ID: 480-224950-7 MSD
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: VP-3 (2-4')
Prep Type: Total/NA
Prep Batch: 731281

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.99	U F1	1.25	1.0	U F1	mg/Kg	☼	0	85 - 115	NC	15

GC/MS VOA

Prep Batch: 730998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-7	VP-3 (2-4')	Total/NA	Solid	5035A_L	
MB 480-730998/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-730998/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	5035A_L	
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	5035A_L	

Prep Batch: 730999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	5035A_L	
480-224950-2	VP-4 (2-4')	Total/NA	Solid	5035A_L	
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	5035A_L	
480-224950-4	VP-2 (2-4')	Total/NA	Solid	5035A_L	
480-224950-5	VP-1 (2-4')	Total/NA	Solid	5035A_L	
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	5035A_L	
MB 480-730999/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-730999/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	5035A_L	
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	5035A_L	

Analysis Batch: 731000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-7	VP-3 (2-4')	Total/NA	Solid	8260C	730998
MB 480-730998/2-A	Method Blank	Total/NA	Solid	8260C	730998
LCS 480-730998/1-A	Lab Control Sample	Total/NA	Solid	8260C	730998
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	8260C	730998
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	8260C	730998

Analysis Batch: 731001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	8260C	730999
480-224950-2	VP-4 (2-4')	Total/NA	Solid	8260C	730999
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	8260C	730999
480-224950-4	VP-2 (2-4')	Total/NA	Solid	8260C	730999
480-224950-5	VP-1 (2-4')	Total/NA	Solid	8260C	730999
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	8260C	730999
MB 480-730999/2-A	Method Blank	Total/NA	Solid	8260C	730999
LCS 480-730999/1-A	Lab Control Sample	Total/NA	Solid	8260C	730999
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	8260C	730999
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	8260C	730999

GC/MS Semi VOA

Prep Batch: 730560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	3550C	
480-224950-2	VP-4 (2-4')	Total/NA	Solid	3550C	
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	3550C	
480-224950-4	VP-2 (2-4')	Total/NA	Solid	3550C	
480-224950-5	VP-1 (2-4')	Total/NA	Solid	3550C	
480-224950-7	VP-3 (2-4')	Total/NA	Solid	3550C	
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Prep Batch: 730560 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-730560/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-730560/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	3550C	
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	3550C	
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	3550C	
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	3550C	

Analysis Batch: 730591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	8270D	730560
480-224950-2	VP-4 (2-4')	Total/NA	Solid	8270D	730560
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	8270D	730560
480-224950-4	VP-2 (2-4')	Total/NA	Solid	8270D	730560
480-224950-5	VP-1 (2-4')	Total/NA	Solid	8270D	730560
480-224950-7	VP-3 (2-4')	Total/NA	Solid	8270D	730560
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	8270D	730560
MB 480-730560/1-A	Method Blank	Total/NA	Solid	8270D	730560
LCS 480-730560/2-A	Lab Control Sample	Total/NA	Solid	8270D	730560
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	8270D	730560
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	8270D	730560
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	8270D	730560
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	8270D	730560

GC Semi VOA

Prep Batch: 730565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	3550C	
480-224950-2	VP-4 (2-4')	Total/NA	Solid	3550C	
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	3550C	
480-224950-4	VP-2 (2-4')	Total/NA	Solid	3550C	
480-224950-5	VP-1 (2-4')	Total/NA	Solid	3550C	
480-224950-7	VP-3 (2-4')	Total/NA	Solid	3550C	
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	3550C	
MB 480-730565/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-730565/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	3550C	
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	3550C	
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	3550C	
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	3550C	

Prep Batch: 730606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	3550C	
480-224950-2	VP-4 (2-4')	Total/NA	Solid	3550C	
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	3550C	
480-224950-4	VP-2 (2-4')	Total/NA	Solid	3550C	
480-224950-5	VP-1 (2-4')	Total/NA	Solid	3550C	
480-224950-7	VP-3 (2-4')	Total/NA	Solid	3550C	
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	3550C	
MB 480-730606/1-A	Method Blank	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 730606 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-730606/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	3550C	
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	3550C	
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	3550C	
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	3550C	

Analysis Batch: 730754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	8081B	730565
480-224950-2	VP-4 (2-4')	Total/NA	Solid	8081B	730565
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	8081B	730565
480-224950-4	VP-2 (2-4')	Total/NA	Solid	8081B	730565
480-224950-5	VP-1 (2-4')	Total/NA	Solid	8081B	730565
480-224950-7	VP-3 (2-4')	Total/NA	Solid	8081B	730565
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	8081B	730565
MB 480-730565/1-A	Method Blank	Total/NA	Solid	8081B	730565
LCS 480-730565/2-A	Lab Control Sample	Total/NA	Solid	8081B	730565
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	8081B	730565
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	8081B	730565
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	8081B	730565
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	8081B	730565

Analysis Batch: 730758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	8082A	730606
480-224950-2	VP-4 (2-4')	Total/NA	Solid	8082A	730606
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	8082A	730606
480-224950-4	VP-2 (2-4')	Total/NA	Solid	8082A	730606
480-224950-5	VP-1 (2-4')	Total/NA	Solid	8082A	730606
480-224950-7	VP-3 (2-4')	Total/NA	Solid	8082A	730606
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	8082A	730606
MB 480-730606/1-A	Method Blank	Total/NA	Solid	8082A	730606
LCS 480-730606/2-A	Lab Control Sample	Total/NA	Solid	8082A	730606
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	8082A	730606
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	8082A	730606
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	8082A	730606
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	8082A	730606

Prep Batch: 730964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	8151A	
480-224950-2	VP-4 (2-4')	Total/NA	Solid	8151A	
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	8151A	
480-224950-4	VP-2 (2-4')	Total/NA	Solid	8151A	
480-224950-5	VP-1 (2-4')	Total/NA	Solid	8151A	
480-224950-7	VP-3 (2-4')	Total/NA	Solid	8151A	
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	8151A	
MB 480-730964/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-730964/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	8151A	
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	8151A	

GC Semi VOA (Continued)

Prep Batch: 730964 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	8151A	
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	8151A	

Analysis Batch: 731215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	8151A	730964
480-224950-2	VP-4 (2-4')	Total/NA	Solid	8151A	730964
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	8151A	730964
480-224950-4	VP-2 (2-4')	Total/NA	Solid	8151A	730964
480-224950-5	VP-1 (2-4')	Total/NA	Solid	8151A	730964
480-224950-7	VP-3 (2-4')	Total/NA	Solid	8151A	730964
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	8151A	730964
MB 480-730964/1-A	Method Blank	Total/NA	Solid	8151A	730964
LCS 480-730964/2-A	Lab Control Sample	Total/NA	Solid	8151A	730964
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	8151A	730964
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	8151A	730964
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	8151A	730964
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	8151A	730964

LCMS

Prep Batch: 633445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	1633 Shake	
480-224950-2	VP-4 (2-4')	Total/NA	Solid	1633 Shake	
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	1633 Shake	
480-224950-4	VP-2 (2-4')	Total/NA	Solid	1633 Shake	
480-224950-5	VP-1 (2-4')	Total/NA	Solid	1633 Shake	
480-224950-7	VP-3 (2-4')	Total/NA	Solid	1633 Shake	
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	1633 Shake	
MB 240-633445/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-633445/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-633445/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	1633 Shake	
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	1633 Shake	
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	1633 Shake	
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	1633 Shake	
480-224950-9 DU	VP-3 Native (8-9')	Total/NA	Solid	1633 Shake	

Analysis Batch: 633665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	Draft-3 1633	633445
480-224950-2	VP-4 (2-4')	Total/NA	Solid	Draft-3 1633	633445
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	Draft-3 1633	633445
480-224950-4	VP-2 (2-4')	Total/NA	Solid	Draft-3 1633	633445
480-224950-5	VP-1 (2-4')	Total/NA	Solid	Draft-3 1633	633445
480-224950-7	VP-3 (2-4')	Total/NA	Solid	Draft-3 1633	633445
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	Draft-3 1633	633445
MB 240-633445/1-A	Method Blank	Total/NA	Solid	Draft-3 1633	633445
LCS 240-633445/3-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	633445
LLCS 240-633445/2-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	633445

LCMS (Continued)

Analysis Batch: 633665 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	Draft-3 1633	633445
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	Draft-3 1633	633445
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	Draft-3 1633	633445
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	Draft-3 1633	633445
480-224950-9 DU	VP-3 Native (8-9')	Total/NA	Solid	Draft-3 1633	633445

Metals

Prep Batch: 730482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	3050B	
480-224950-2	VP-4 (2-4')	Total/NA	Solid	3050B	
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	3050B	
480-224950-4	VP-2 (2-4')	Total/NA	Solid	3050B	
480-224950-5	VP-1 (2-4')	Total/NA	Solid	3050B	
480-224950-7	VP-3 (2-4')	Total/NA	Solid	3050B	
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	3050B	
MB 480-730482/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-730482/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	3050B	
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	3050B	
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	3050B	
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	3050B	

Prep Batch: 730579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	7471B	
480-224950-2	VP-4 (2-4')	Total/NA	Solid	7471B	
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	7471B	
480-224950-4	VP-2 (2-4')	Total/NA	Solid	7471B	
480-224950-5	VP-1 (2-4')	Total/NA	Solid	7471B	
480-224950-7	VP-3 (2-4')	Total/NA	Solid	7471B	
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	7471B	
MB 480-730579/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-730579/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	7471B	
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	7471B	
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	7471B	
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	7471B	

Analysis Batch: 730681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	7471B	730579
480-224950-2	VP-4 (2-4')	Total/NA	Solid	7471B	730579
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	7471B	730579
480-224950-4	VP-2 (2-4')	Total/NA	Solid	7471B	730579
480-224950-5	VP-1 (2-4')	Total/NA	Solid	7471B	730579
MB 480-730579/1-A	Method Blank	Total/NA	Solid	7471B	730579
LCSSRM 480-730579/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	730579
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	7471B	730579
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	7471B	730579

Metals

Analysis Batch: 730705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-7	VP-3 (2-4')	Total/NA	Solid	7471B	730579
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	7471B	730579
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	7471B	730579
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	7471B	730579

Analysis Batch: 730895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	6010C	730482
480-224950-1	BH-10 (2-4')	Total/NA	Solid	6010C	730482
480-224950-2	VP-4 (2-4')	Total/NA	Solid	6010C	730482
480-224950-2	VP-4 (2-4')	Total/NA	Solid	6010C	730482
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	6010C	730482
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	6010C	730482
480-224950-4	VP-2 (2-4')	Total/NA	Solid	6010C	730482
480-224950-4	VP-2 (2-4')	Total/NA	Solid	6010C	730482
480-224950-5	VP-1 (2-4')	Total/NA	Solid	6010C	730482
480-224950-5	VP-1 (2-4')	Total/NA	Solid	6010C	730482
480-224950-7	VP-3 (2-4')	Total/NA	Solid	6010C	730482
480-224950-7	VP-3 (2-4')	Total/NA	Solid	6010C	730482
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	6010C	730482
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	6010C	730482
MB 480-730482/1-A	Method Blank	Total/NA	Solid	6010C	730482
LCSSRM 480-730482/2-A	Lab Control Sample	Total/NA	Solid	6010C	730482
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	6010C	730482
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	6010C	730482
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	6010C	730482
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	6010C	730482
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	6010C	730482
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	6010C	730482
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	6010C	730482
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	6010C	730482

Analysis Batch: 731091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	6010C	730482
480-224950-2	VP-4 (2-4')	Total/NA	Solid	6010C	730482
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	6010C	730482
480-224950-4	VP-2 (2-4')	Total/NA	Solid	6010C	730482
480-224950-5	VP-1 (2-4')	Total/NA	Solid	6010C	730482
480-224950-7	VP-3 (2-4')	Total/NA	Solid	6010C	730482
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	6010C	730482
MB 480-730482/1-A	Method Blank	Total/NA	Solid	6010C	730482
LCSSRM 480-730482/2-A	Lab Control Sample	Total/NA	Solid	6010C	730482
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	6010C	730482
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	6010C	730482
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	6010C	730482
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	6010C	730482

General Chemistry

Analysis Batch: 730508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	Moisture	
480-224950-2	VP-4 (2-4')	Total/NA	Solid	Moisture	
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	Moisture	
480-224950-4	VP-2 (2-4')	Total/NA	Solid	Moisture	
480-224950-5	VP-1 (2-4')	Total/NA	Solid	Moisture	
480-224950-7	VP-3 (2-4')	Total/NA	Solid	Moisture	
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	Moisture	
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	Moisture	
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	Moisture	
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	Moisture	
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	Moisture	

Prep Batch: 731281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	9012B	
480-224950-2	VP-4 (2-4')	Total/NA	Solid	9012B	
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	9012B	
480-224950-4	VP-2 (2-4')	Total/NA	Solid	9012B	
480-224950-5	VP-1 (2-4')	Total/NA	Solid	9012B	
480-224950-7	VP-3 (2-4')	Total/NA	Solid	9012B	
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	9012B	
MB 480-731281/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-731281/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-731281/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-731281/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	9012B	
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	9012B	
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	9012B	
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	9012B	

Analysis Batch: 731288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	9012B	731281
480-224950-2	VP-4 (2-4')	Total/NA	Solid	9012B	731281
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	9012B	731281
480-224950-4	VP-2 (2-4')	Total/NA	Solid	9012B	731281
480-224950-5	VP-1 (2-4')	Total/NA	Solid	9012B	731281
480-224950-7	VP-3 (2-4')	Total/NA	Solid	9012B	731281
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	9012B	731281
MB 480-731281/1-A	Method Blank	Total/NA	Solid	9012B	731281
LCS 480-731281/3-A	Lab Control Sample	Total/NA	Solid	9012B	731281
LCS 480-731281/4-A	Lab Control Sample	Total/NA	Solid	9012B	731281
LCSSRM 480-731281/2-A	Lab Control Sample	Total/NA	Solid	9012B	731281
480-224950-5 MS	VP-1 (2-4')	Total/NA	Solid	9012B	731281
480-224950-5 MSD	VP-1 (2-4')	Total/NA	Solid	9012B	731281
480-224950-7 MS	VP-3 (2-4')	Total/NA	Solid	9012B	731281
480-224950-7 MSD	VP-3 (2-4')	Total/NA	Solid	9012B	731281

Prep Batch: 1006265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	3060A	

General Chemistry (Continued)

Prep Batch: 1006265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-2	VP-4 (2-4')	Total/NA	Solid	3060A	
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	3060A	
480-224950-4	VP-2 (2-4')	Total/NA	Solid	3060A	
MB 460-1006265/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-1006265/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-1006265/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 1006293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-1	BH-10 (2-4')	Total/NA	Solid	7196A	1006265
480-224950-2	VP-4 (2-4')	Total/NA	Solid	7196A	1006265
480-224950-3	VP-4 QA/QC (2-4')	Total/NA	Solid	7196A	1006265
480-224950-4	VP-2 (2-4')	Total/NA	Solid	7196A	1006265
MB 460-1006265/1-A	Method Blank	Total/NA	Solid	7196A	1006265
LCSI 460-1006265/3-A	Lab Control Sample	Total/NA	Solid	7196A	1006265
LCSSRM 460-1006265/2-A	Lab Control Sample	Total/NA	Solid	7196A	1006265

Prep Batch: 1006455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-5	VP-1 (2-4')	Total/NA	Solid	3060A	
480-224950-7	VP-3 (2-4')	Total/NA	Solid	3060A	
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	3060A	
MB 460-1006455/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-1006455/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-1006455/2-A	Lab Control Sample	Total/NA	Solid	3060A	
480-224950-5 MSI	VP-1 (2-4')	Total/NA	Solid	3060A	
480-224950-5 MSS	VP-1 (2-4')	Total/NA	Solid	3060A	
480-224950-7 MSI	VP-3 (2-4')	Total/NA	Solid	3060A	
480-224950-7 MSS	VP-3 (2-4')	Total/NA	Solid	3060A	
480-224950-5 DU	VP-1 (2-4')	Total/NA	Solid	3060A	
480-224950-7 DU	VP-3 (2-4')	Total/NA	Solid	3060A	

Analysis Batch: 1006466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224950-5	VP-1 (2-4')	Total/NA	Solid	7196A	1006455
480-224950-7	VP-3 (2-4')	Total/NA	Solid	7196A	1006455
480-224950-9	VP-3 Native (8-9')	Total/NA	Solid	7196A	1006455
MB 460-1006455/1-A	Method Blank	Total/NA	Solid	7196A	1006455
LCSI 460-1006455/3-A	Lab Control Sample	Total/NA	Solid	7196A	1006455
LCSSRM 460-1006455/2-A	Lab Control Sample	Total/NA	Solid	7196A	1006455
480-224950-5 MSI	VP-1 (2-4')	Total/NA	Solid	7196A	1006455
480-224950-5 MSS	VP-1 (2-4')	Total/NA	Solid	7196A	1006455
480-224950-7 MSI	VP-3 (2-4')	Total/NA	Solid	7196A	1006455
480-224950-7 MSS	VP-3 (2-4')	Total/NA	Solid	7196A	1006455
480-224950-5 DU	VP-1 (2-4')	Total/NA	Solid	7196A	1006455
480-224950-7 DU	VP-3 (2-4')	Total/NA	Solid	7196A	1006455

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

Client Sample ID: BH-10 (2-4')
Lab Sample ID: 480-224950-1
Date Collected: 10/29/24 09:30
Matrix: Solid
Date Received: 10/30/24 16:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730508	MAN	EET BUF	10/30/24 14:31

Client Sample ID: BH-10 (2-4')
Lab Sample ID: 480-224950-1
Date Collected: 10/29/24 09:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730999	CDC	EET BUF	11/03/24 16:37
Total/NA	Analysis	8260C		1	731001	CDC	EET BUF	11/03/24 21:22
Total/NA	Prep	3550C			730560	SJM	EET BUF	10/30/24 17:31
Total/NA	Analysis	8270D		20	730591	JMM	EET BUF	10/31/24 20:35
Total/NA	Prep	3550C			730565	SMP	EET BUF	10/31/24 06:36
Total/NA	Analysis	8081B		10	730754	JLS	EET BUF	11/01/24 11:31
Total/NA	Prep	3550C			730606	JMP	EET BUF	10/31/24 09:17
Total/NA	Analysis	8082A		1	730758	W1T	EET BUF	11/02/24 04:36
Total/NA	Prep	8151A			730964	DP	EET BUF	11/03/24 06:56
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 15:04
Total/NA	Prep	1633 Shake			633445	JVB4	EET CLE	11/01/24 07:50
Total/NA	Analysis	Draft-3 1633		1	633665	DSH	EET CLE	11/02/24 19:25
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	730895	BMB	EET BUF	11/01/24 15:03
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		5	730895	BMB	EET BUF	11/01/24 15:05
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	731091	BMB	EET BUF	11/04/24 13:05
Total/NA	Prep	7471B			730579	ESB	EET BUF	10/31/24 09:44
Total/NA	Analysis	7471B		1	730681	ESB	EET BUF	10/31/24 11:57
Total/NA	Prep	3060A			1006265	MNP	EET EDI	11/11/24 09:15 - 11/11/24 10:15 [1]
Total/NA	Analysis	7196A		1	1006293	MNP	EET EDI	11/11/24 10:33
Total/NA	Prep	9012B			731281	CG	EET BUF	11/05/24 14:00
Total/NA	Analysis	9012B		1	731288	AM	EET BUF	11/05/24 17:49

Client Sample ID: VP-4 (2-4')
Lab Sample ID: 480-224950-2
Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730508	MAN	EET BUF	10/30/24 14:31

Client Sample ID: VP-4 (2-4')
Lab Sample ID: 480-224950-2
Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730999	CDC	EET BUF	11/03/24 16:37
Total/NA	Analysis	8260C		1	731001	CDC	EET BUF	11/03/24 21:50
Total/NA	Prep	3550C			730560	SJM	EET BUF	10/30/24 17:31
Total/NA	Analysis	8270D		5	730591	JMM	EET BUF	10/31/24 21:00
Total/NA	Prep	3550C			730565	SMP	EET BUF	10/31/24 06:36
Total/NA	Analysis	8081B		10	730754	JLS	EET BUF	11/01/24 11:51
Total/NA	Prep	3550C			730606	JMP	EET BUF	10/31/24 09:17
Total/NA	Analysis	8082A		1	730758	W1T	EET BUF	11/02/24 04:55
Total/NA	Prep	8151A			730964	DP	EET BUF	11/03/24 06:56
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 15:23
Total/NA	Prep	1633 Shake			633445	JVB4	EET CLE	11/01/24 07:50
Total/NA	Analysis	Draft-3 1633		1	633665	DSH	EET CLE	11/02/24 19:42
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	730895	BMB	EET BUF	11/01/24 15:07
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		5	730895	BMB	EET BUF	11/01/24 15:09
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	731091	BMB	EET BUF	11/04/24 13:07
Total/NA	Prep	7471B			730579	ESB	EET BUF	10/31/24 09:44
Total/NA	Analysis	7471B		1	730681	ESB	EET BUF	10/31/24 11:58
Total/NA	Prep	3060A			1006265	MNP	EET EDI	11/11/24 09:15 - 11/11/24 10:15 [1]
Total/NA	Analysis	7196A		1	1006293	MNP	EET EDI	11/11/24 10:33
Total/NA	Prep	9012B			731281	CG	EET BUF	11/05/24 14:00
Total/NA	Analysis	9012B		1	731288	AM	EET BUF	11/05/24 17:50

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3
Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730508	MAN	EET BUF	10/30/24 14:31

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3
Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730999	CDC	EET BUF	11/03/24 16:37
Total/NA	Analysis	8260C		1	731001	CDC	EET BUF	11/03/24 22:17
Total/NA	Prep	3550C			730560	SJM	EET BUF	10/30/24 17:31
Total/NA	Analysis	8270D		1	730591	JMM	EET BUF	10/31/24 21:24
Total/NA	Prep	3550C			730565	SMP	EET BUF	10/31/24 06:36
Total/NA	Analysis	8081B		10	730754	JLS	EET BUF	11/01/24 12:11
Total/NA	Prep	3550C			730606	JMP	EET BUF	10/31/24 09:17
Total/NA	Analysis	8082A		1	730758	W1T	EET BUF	11/02/24 05:50

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3

Date Collected: 10/29/24 10:45
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8151A			730964	DP	EET BUF	11/03/24 06:56
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 16:00
Total/NA	Prep	1633 Shake			633445	JVB4	EET CLE	11/01/24 07:50
Total/NA	Analysis	Draft-3 1633		1	633665	DSH	EET CLE	11/02/24 19:59
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	730895	BMB	EET BUF	11/01/24 15:11
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		5	730895	BMB	EET BUF	11/01/24 15:13
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	731091	BMB	EET BUF	11/04/24 13:09
Total/NA	Prep	7471B			730579	ESB	EET BUF	10/31/24 09:44
Total/NA	Analysis	7471B		1	730681	ESB	EET BUF	10/31/24 12:00
Total/NA	Prep	3060A			1006265	MNP	EET EDI	11/11/24 09:15 - 11/11/24 10:15 [1]
Total/NA	Analysis	7196A		1	1006293	MNP	EET EDI	11/11/24 10:33
Total/NA	Prep	9012B			731281	CG	EET BUF	11/05/24 14:00
Total/NA	Analysis	9012B		1	731288	AM	EET BUF	11/05/24 17:51

Client Sample ID: VP-2 (2-4')
Lab Sample ID: 480-224950-4

Date Collected: 10/29/24 13:30
Matrix: Solid
Date Received: 10/30/24 16:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730508	MAN	EET BUF	10/30/24 14:31

Client Sample ID: VP-2 (2-4')
Lab Sample ID: 480-224950-4

Date Collected: 10/29/24 13:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730999	CDC	EET BUF	11/03/24 16:37
Total/NA	Analysis	8260C		1	731001	CDC	EET BUF	11/03/24 22:44
Total/NA	Prep	3550C			730560	SJM	EET BUF	10/30/24 17:31
Total/NA	Analysis	8270D		1	730591	JMM	EET BUF	10/31/24 21:49
Total/NA	Prep	3550C			730565	SMP	EET BUF	10/31/24 06:36
Total/NA	Analysis	8081B		1	730754	JLS	EET BUF	11/01/24 12:30
Total/NA	Prep	3550C			730606	JMP	EET BUF	10/31/24 09:17
Total/NA	Analysis	8082A		1	730758	W1T	EET BUF	11/02/24 06:08
Total/NA	Prep	8151A			730964	DP	EET BUF	11/03/24 06:56
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 16:18
Total/NA	Prep	1633 Shake			633445	JVB4	EET CLE	11/01/24 07:50
Total/NA	Analysis	Draft-3 1633		1	633665	DSH	EET CLE	11/02/24 18:02
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	730895	BMB	EET BUF	11/01/24 15:15
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		5	730895	BMB	EET BUF	11/01/24 15:35

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

Client Sample ID: VP-2 (2-4')
Lab Sample ID: 480-224950-4
Date Collected: 10/29/24 13:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	731091	BMB	EET BUF	11/04/24 13:11
Total/NA	Prep	7471B			730579	ESB	EET BUF	10/31/24 09:44
Total/NA	Analysis	7471B		1	730681	ESB	EET BUF	10/31/24 12:01
Total/NA	Prep	3060A			1006265	MNP	EET EDI	11/11/24 09:15 - 11/11/24 10:15 [1]
Total/NA	Analysis	7196A		1	1006293	MNP	EET EDI	11/11/24 10:33
Total/NA	Prep	9012B			731281	CG	EET BUF	11/05/24 14:00
Total/NA	Analysis	9012B		1	731288	AM	EET BUF	11/05/24 17:53

Client Sample ID: VP-1 (2-4')
Lab Sample ID: 480-224950-5
Date Collected: 10/29/24 14:00
Matrix: Solid
Date Received: 10/30/24 16:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730508	MAN	EET BUF	10/30/24 14:31

Client Sample ID: VP-1 (2-4')
Lab Sample ID: 480-224950-5
Date Collected: 10/29/24 14:00
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730999	CDC	EET BUF	11/03/24 16:37
Total/NA	Analysis	8260C		1	731001	CDC	EET BUF	11/03/24 23:11
Total/NA	Prep	3550C			730560	SJM	EET BUF	10/30/24 17:31
Total/NA	Analysis	8270D		20	730591	JMM	EET BUF	10/31/24 19:46
Total/NA	Prep	3550C			730565	SMP	EET BUF	10/31/24 06:36
Total/NA	Analysis	8081B		5	730754	JLS	EET BUF	11/01/24 10:52
Total/NA	Prep	3550C			730606	JMP	EET BUF	10/31/24 09:17
Total/NA	Analysis	8082A		1	730758	W1T	EET BUF	11/02/24 04:00
Total/NA	Prep	8151A			730964	DP	EET BUF	11/03/24 06:56
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 14:27
Total/NA	Prep	1633 Shake			633445	JVB4	EET CLE	11/01/24 07:50
Total/NA	Analysis	Draft-3 1633		1	633665	DSH	EET CLE	11/02/24 18:36
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	730895	BMB	EET BUF	11/01/24 15:37
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		5	730895	BMB	EET BUF	11/01/24 15:39
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	731091	BMB	EET BUF	11/04/24 13:12
Total/NA	Prep	7471B			730579	ESB	EET BUF	10/31/24 09:44
Total/NA	Analysis	7471B		1	730681	ESB	EET BUF	10/31/24 12:02
Total/NA	Prep	3060A			1006455	MNP	EET EDI	11/12/24 09:00 - 11/12/24 10:00 [1]
Total/NA	Analysis	7196A		1	1006466	MNP	EET EDI	11/12/24 11:00
Total/NA	Prep	9012B			731281	CG	EET BUF	11/05/24 14:00
Total/NA	Analysis	9012B		1	731288	AM	EET BUF	11/05/24 17:46

Eurofins Buffalo

Client Sample ID: VP-3 (2-4')
Lab Sample ID: 480-224950-7
Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730508	MAN	EET BUF	10/30/24 14:31

Client Sample ID: VP-3 (2-4')
Lab Sample ID: 480-224950-7
Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730998	CDC	EET BUF	11/03/24 16:35
Total/NA	Analysis	8260C		1	731000	CDC	EET BUF	11/03/24 20:33
Total/NA	Prep	3550C			730560	SJM	EET BUF	10/30/24 17:31
Total/NA	Analysis	8270D		10	730591	JMM	EET BUF	10/31/24 20:11
Total/NA	Prep	3550C			730565	SMP	EET BUF	10/31/24 06:36
Total/NA	Analysis	8081B		50	730754	JLS	EET BUF	11/01/24 11:12
Total/NA	Prep	3550C			730606	JMP	EET BUF	10/31/24 09:17
Total/NA	Analysis	8082A		1	730758	W1T	EET BUF	11/02/24 04:18
Total/NA	Prep	8151A			730964	DP	EET BUF	11/03/24 06:56
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 14:46
Total/NA	Prep	1633 Shake			633445	JVB4	EET CLE	11/01/24 07:50
Total/NA	Analysis	Draft-3 1633		1	633665	DSH	EET CLE	11/02/24 18:19
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	730895	BMB	EET BUF	11/01/24 16:21
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		5	730895	BMB	EET BUF	11/01/24 16:23
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	731091	BMB	EET BUF	11/04/24 13:30
Total/NA	Prep	7471B			730579	ESB	EET BUF	10/31/24 09:44
Total/NA	Analysis	7471B		10	730705	ESB	EET BUF	10/31/24 15:07
Total/NA	Prep	3060A			1006455	MNP	EET EDI	11/12/24 09:00 - 11/12/24 10:00 [1]
Total/NA	Analysis	7196A		1	1006466	MNP	EET EDI	11/12/24 11:00
Total/NA	Prep	9012B			731281	CG	EET BUF	11/05/24 14:00
Total/NA	Analysis	9012B		1	731288	AM	EET BUF	11/05/24 17:57

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9
Date Collected: 10/29/24 15:30
Matrix: Solid
Date Received: 10/30/24 16:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730508	MAN	EET BUF	10/30/24 14:31

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9

Date Collected: 10/29/24 15:30
Matrix: Solid

Date Received: 10/30/24 16:22
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730999	CDC	EET BUF	11/03/24 16:37
Total/NA	Analysis	8260C		1	731001	CDC	EET BUF	11/03/24 23:38
Total/NA	Prep	3550C			730560	SJM	EET BUF	10/30/24 17:31
Total/NA	Analysis	8270D		1	730591	JMM	EET BUF	10/31/24 22:14
Total/NA	Prep	3550C			730565	SMP	EET BUF	10/31/24 06:36
Total/NA	Analysis	8081B		1	730754	JLS	EET BUF	11/01/24 12:50
Total/NA	Prep	3550C			730606	JMP	EET BUF	10/31/24 09:17
Total/NA	Analysis	8082A		1	730758	W1T	EET BUF	11/02/24 06:26
Total/NA	Prep	8151A			730964	DP	EET BUF	11/03/24 06:56
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 16:37
Total/NA	Prep	1633 Shake			633445	JVB4	EET CLE	11/01/24 07:51
Total/NA	Analysis	Draft-3 1633		1	633665	DSH	EET CLE	11/02/24 21:22
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	730895	BMB	EET BUF	11/01/24 16:47
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		5	730895	BMB	EET BUF	11/01/24 16:49
Total/NA	Prep	3050B			730482	ET	EET BUF	10/30/24 15:30
Total/NA	Analysis	6010C		1	731091	BMB	EET BUF	11/04/24 13:35
Total/NA	Prep	7471B			730579	ESB	EET BUF	10/31/24 09:44
Total/NA	Analysis	7471B		1	730705	ESB	EET BUF	10/31/24 15:03
Total/NA	Prep	3060A			1006455	MNP	EET EDI	11/12/24 09:00 - 11/12/24 10:00 [1]
Total/NA	Analysis	7196A		1	1006466	MNP	EET EDI	11/12/24 12:50
Total/NA	Prep	9012B			731281	CG	EET BUF	11/05/24 14:00
Total/NA	Analysis	9012B		1	731288	AM	EET BUF	11/05/24 17:54

[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

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

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
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
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
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	12-31-24

Laboratory: Eurofins Edison

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-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	04-01-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-31-24
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

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
Draft-3 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
7196A	Chromium, Hexavalent	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET EDI
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
9012B	Cyanide, Total and/or Amenable, Distillation	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

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224950-1	BH-10 (2-4')	Solid	10/29/24 09:30	10/30/24 16:22
480-224950-2	VP-4 (2-4')	Solid	10/29/24 10:45	10/30/24 16:22
480-224950-3	VP-4 QA/QC (2-4')	Solid	10/29/24 10:45	10/30/24 16:22
480-224950-4	VP-2 (2-4')	Solid	10/29/24 13:30	10/30/24 16:22
480-224950-5	VP-1 (2-4')	Solid	10/29/24 14:00	10/30/24 16:22
480-224950-7	VP-3 (2-4')	Solid	10/29/24 15:30	10/30/24 16:22
480-224950-9	VP-3 Native (8-9')	Solid	10/29/24 15:30	10/30/24 16:22

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: Jacob COX
Company: Bridges Engineering - BE3
Address: 960 Busti Ave, Suite B-150
City: Buffalo
State, Zip: NY, 14213
Phone: 716 . 249 . 6880
Email:
Site:

Sampler: Joseph Gambino
Phone: 716 . 249 6880
Due Date Requested:
TAT Requested (days): Standard 10 Day TAT
PO #:
WO #:
SSOW#:

Lab PM: Beniati, John
E-Mail: JCOX@BE3corp.com
Accreditations Required (See note):

Carrier Tracking No(s):
State of Origin:

COC No:
Page:
Job #:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs + TICs	6010C, 7471B, 8081B	8082A, 8151A, 8270D	1633_final - 1633 Standard List + HG	7196A, 9012B	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH-10 (2-4')	10-29-24	9.30AM	G	S			X	X	X	X	X		Added Hex Chrom + Cyanide
VP-4 (2-4')	10-29-24	10:45AM	G	S			X	X	X	X	X		
VP-4 QA/QC (2-4')	10-29-24	10,45AM	G	S			X	X	X	X	X		
VP-2 (2-4')	10-29-24	1:30PM	G	S			X	X	X	X	X		
VP-1 (2-4')	10-29-24	2.00PM	G	S			X	X	X	X	X		
VP-1 MS (2-4')	10-29-24	2.00PM	G	S			X	X	X	X	X		
VP-3 (2-4')	10-29-24	3:30PM	G	S			X	X	X	X	X		
VP-3 MSD (2-4')	10-29-24	3:30PM	G	S			X	X	X	X	X		
VP-3 Native (8-9')	10-29-24	3.30pm	G	S			X	X	X	X	X		

480-224950 Chain of Custody

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
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Joseph Gambino	10/29/24 @ 4.30PM	BE3	VHS	10-29-24 1622	
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: 4.2 ICE IR#5C

Ver: 06/08/2021

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90143.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-224950-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/12/2024			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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

PFAS 47

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:						
BH-10 (2-4) (480-224950-1)	10/29/24	09:30 Eastern	G	Solid			X	1	
VP-4 (2-4) (480-224950-2)	10/29/24	10:45 Eastern	G	Solid			X	1	
VP-4 QA/QC (2-4) (480-224950-3)	10/29/24	10:45 Eastern	G	Solid			X	1	
VP-2 (2-4) (480-224950-4)	10/29/24	13:00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5)	10/29/24	14.00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5MS)	10/29/24	14:00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5MSD)	10/29/24	14.00 Eastern	G	Solid			X	1	
VP-3 (2-4) (480-224950-7)	10/29/24	15:30 Eastern	G	Solid			X	1	
VP-3 (2-4) (480-224950-7MS)	10/29/24	15:30 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: Unconfirmed	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) 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]	10-30-24 1600		JESSE MOROSKO	10/31/24 0930	Eurofins
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 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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90143.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-224950-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/12/2024			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: The Nest Site Analysis	Project #: 48028073			
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_Shake 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
VP-3 (2-4) (480-224950-7MSD)	10/29/24	15:30 Eastern	G	Solid			X	1	
VP-3 Native (8-9) (480-224950-9)	10/29/24	15:30 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
			JESSE MOROSKO	10/31/24 0930	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 unpacked by: JMOCUSKA

Cooler Received on 10/31/24 Opened on 10/31/24

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 # 17 (CF +0.1 °C) Observed Cooler Temp. 1.2 °C Corrected Cooler Temp. 1.3 °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# HC447997
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. _____

Pocket Size
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE
BUFFALO, NY 142282223
UNITED STATES US
BILL SENDER
CAD 0758273/CAFE3855
DIMS 18x15x13 IN
Part # 153469-454 NTW EXP 06/25
TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE
BARBERTON OH 44203543
(330) 497-9396
REF. BARBERTON
FedEx Express
J243024070401uv
TRK# 0201 7463 0660 4102
THU - 31 OCT 10:30A
PRIORITY OVERNIGHT
NX CAKA
44203
OH-US CLE

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90144.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-224950-1
Address: 777 New Durham Road,	Due Date Requested: 11/12/2024			Preservation Codes:
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis	Project #: 48028073			
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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH-10 (2-4) (480-224950-1)	10/29/24	09:30 Eastern	G	Solid			X	1	
VP-4 (2-4) (480-224950-2)	10/29/24	10:45 Eastern	G	Solid			X	1	
VP-4 QA/QC (2-4) (480-224950-3)	10/29/24	10:45 Eastern	G	Solid			X	1	
VP-2 (2-4) (480-224950-4)	10/29/24	13:00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5)	10/29/24	14.00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5MS)	10/29/24	14:00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5MSD)	10/29/24	14.00 Eastern	G	Solid			X	1	
VP-3 (2-4) (480-224950-7)	10/29/24	15:30 Eastern	G	Solid			X	1	
VP-3 (2-4) (480-224950-7MS)	10/29/24	15:30 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
[signature]	10-30-24 1606		[signature] FedEx	10/31/24 1640	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: 0.9 | 1.1 IR9

Ver: 10/10/2024

11/15/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90144.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-224950-1
Address: 777 New Durham Road,	Due Date Requested: 11/12/2024			Preservation Codes:
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis	Project #: 48028073			
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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
VP-3 (2-4) (480-224950-7MSD)	10/29/24	15:30 Eastern	G	Solid			X	1	
VP-3 Native (8-9) (480-224950-9)	10/29/24	15:30 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
1				Fedex	10/31/24 1040	ETA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 0911 IR9

Ver 10/10/2024

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224950-1

Login Number: 224950
List Number: 1
Creator: Stapleton, Kaitlyn

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	4.2 IR#SC ice
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	refer to NCM
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	Brydges Engineering
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224950-1

Login Number: 224950
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins Edison
List Creation: 10/31/24 11:55 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9/1.1°C IR9
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224950-1

Login Number: 224950
List Number: 4
Creator: Armbruster, Chris

List Source: Eurofins Edison
List Creation: 11/14/24 10:56 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 11/11/2024 5:28:03 PM

JOB DESCRIPTION

The Nest Site Analysis - GW

JOB NUMBER

480-224998-1

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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Authorized for release by
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Wyatt.Watson@et.eurofinsus.com
Designee for
John Beninati, Project Manager I
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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.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.
U	Indicates the analyte was analyzed for but not detected.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 480-224998-1 Eurofins Buffalo

Job Narrative
480-224998-1

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 10/30/2024 3:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.2º C, 2.8º C, 3.0º C and 3.3º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-730795 recovered above the upper control limit for 2-Hexanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-730914 recovered above the upper control limit for Carbon tetrachloride and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: RI MW-3 (480-224998-1).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-730914 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 samples are impacted: RI MW-3 (480-224998-1[MS]) and RI MW-3 (480-224998-1[MSD])

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 480-730787 recovered outside acceptance criteria, low biased, for Hexachlorobenzene and Hexachlorocyclopentadiene. 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 following associated sample is impacted: RI MW-3 (480-224998-1).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730787 recovered above the upper control limit for bis (2-chloroisopropyl) ether, 2-Nitroaniline, 4-Nitrophenol and Bis(2-ethylhexyl) phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: RI MW-3 (480-224998-1).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-731032 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. 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 following associated samples are impacted: RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-731032 recovered above the upper control limit for bis (2-chloroisopropyl) ether, 2-Nitroaniline, 4-Nitrophenol and Bis(2-ethylhexyl) phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4).

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

Eurofins Buffalo

Job ID: 480-224998-1 (Continued) Eurofins Buffalo

GC Semi VOA
Method 8081B: The method blank for preparation batch 480-731202 and analytical batch 480-731303 contained 4,4'-DDT, delta-BHC, Endosulfan II and Lindane 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 affected: RI MW-3 (480-224998-1), RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4).

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

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

LCMS
Method 1633: Dilution performed due to high amount of particulate matter per analyst visual inspection. Aliquot taken. Laboratory proceeded with analysis.

RI MW-2 (480-224998-4)

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

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

Organic Prep
Method 3510C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: RI MW-3 (480-224998-1), RI MW-3 (480-224998-1[MS]), RI MW-3 (480-224998-1[MSD]), RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4).

Method 3510C: After solvent exchange, the color of the extract changed while concentrating due to some kind of reaction with the vapors from 225074-1.

RI MW-3 (480-224998-1), RI MW-3 (480-224998-1[MS]), RI MW-3 (480-224998-1[MSD]), RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4)

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

Client Sample ID: RI MW-3
Lab Sample ID: 480-224998-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.3		1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	12	F1	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	3.5		1.0	0.46	ug/L	1		8260C	Total/NA
4,4'-DDT	0.024	J B	0.050	0.011	ug/L	1		8081B	Total/NA
Endosulfan II	0.013	J B	0.050	0.012	ug/L	1		8081B	Total/NA
Perfluorobutanoic acid (PFBA)	17		6.9	1.8	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	19		3.5	0.86	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	18		1.7	0.43	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	9.3		1.7	0.43	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	16		1.7	0.43	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	1.5	J	1.7	0.43	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.81	J	1.7	0.43	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.1		1.7	0.43	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.50	J	1.7	0.43	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.0		1.7	0.45	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.2		1.7	0.43	ng/L	1		1633	Total/NA
Barium	0.050		0.0020	0.00070	mg/L	1		6010C	Dissolved
Cadmium	0.0044		0.0020	0.00050	mg/L	1		6010C	Dissolved
Calcium	120		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0019	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Cobalt	0.00089	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Magnesium	33.1		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.0025	J B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0027	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	19.1		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	267		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	1.4	B F1	0.010	0.0015	mg/L	1		6010C	Dissolved
Cyanide, Total	0.0041	J	0.010	0.0041	mg/L	1		335.4	Total/NA

Client Sample ID: RI MW-3 DUP
Lab Sample ID: 480-224998-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.29	J	1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	1.9		1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	11		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	3.2		1.0	0.46	ug/L	1		8260C	Total/NA
4,4'-DDT	0.022	J B	0.052	0.011	ug/L	1		8081B	Total/NA
Perfluorobutanoic acid (PFBA)	17		7.3	1.9	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	19		3.6	0.91	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	18		1.8	0.46	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	10		1.8	0.46	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	16		1.8	0.46	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	1.4	J	1.8	0.46	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.84	J	1.8	0.46	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.3		1.8	0.46	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.54	J	1.8	0.46	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.9		1.8	0.47	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.2		1.8	0.46	ng/L	1		1633	Total/NA
Barium	0.048		0.0020	0.00070	mg/L	1		6010C	Dissolved
Cadmium	0.0043		0.0020	0.00050	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: RI MW-3 DUP (Continued)
Lab Sample ID: 480-224998-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	117		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0015	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Cobalt	0.00063	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Iron	0.033	J	0.050	0.019	mg/L	1		6010C	Dissolved
Lead	0.0044	J	0.010	0.0030	mg/L	1		6010C	Dissolved
Magnesium	32.2		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.0027	J B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0030	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	18.8		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	263		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	1.4	B	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: RI MW-1
Lab Sample ID: 480-224998-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.9		1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	7.0		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	2.2		1.0	0.46	ug/L	1		8260C	Total/NA
4,4'-DDE	0.013	J	0.050	0.012	ug/L	1		8081B	Total/NA
4,4'-DDT	0.041	J B	0.050	0.011	ug/L	1		8081B	Total/NA
delta-BHC	0.011	J B	0.050	0.010	ug/L	1		8081B	Total/NA
Endosulfan II	0.014	J B	0.050	0.012	ug/L	1		8081B	Total/NA
Perfluorobutanoic acid (PFBA)	17		6.8	1.8	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	37		3.4	0.85	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	38		1.7	0.42	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	27		1.7	0.42	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	42		1.7	0.42	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	4.3		1.7	0.42	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	2.9		1.7	0.42	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.8		1.7	0.42	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.3	J	1.7	0.42	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.4		1.7	0.44	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	13		1.7	0.42	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	1.1	J I	1.7	0.42	ng/L	1		1633	Total/NA
Barium	0.039		0.0020	0.00070	mg/L	1		6010C	Dissolved
Cadmium	0.0025		0.0020	0.00050	mg/L	1		6010C	Dissolved
Calcium	115		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0027	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Cobalt	0.00076	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Copper	0.0018	J	0.010	0.0016	mg/L	1		6010C	Dissolved
Magnesium	22.3		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.012	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0026	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	22.8		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	297		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.52	B	0.010	0.0015	mg/L	1		6010C	Dissolved
Cyanide, Total	0.0057	J	0.010	0.0041	mg/L	1		335.4	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

Client Sample ID: RI MW-2
Lab Sample ID: 480-224998-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.39	J	1.0	0.34	ug/L	1		8260C	Total/NA
sec-Butylbenzene	0.81	J	1.0	0.75	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.3		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	1.1		1.0	0.46	ug/L	1		8260C	Total/NA
4,4'-DDT	0.018	J B	0.057	0.013	ug/L	1		8081B	Total/NA
Endosulfan II	0.026	J B	0.057	0.014	ug/L	1		8081B	Total/NA
Lindane	0.010	J B	0.057	0.0091	ug/L	1		8081B	Total/NA
Perfluorobutanoic acid (PFBA)	11		9.6	2.6	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	12		4.8	1.2	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	16		2.4	0.60	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.9		2.4	0.60	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	21		2.4	0.60	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	3.3		2.4	0.60	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	2.8		2.4	0.60	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.4		2.4	0.60	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.74	J	2.4	0.60	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.1	J	2.4	0.62	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	8.8		2.4	0.60	ng/L	1		1633	Total/NA
Barium	0.037		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	89.8		0.50	0.10	mg/L	1		6010C	Dissolved
Cobalt	0.00075	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Magnesium	20.3		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.053	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0034	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	18.2		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	345		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.34	B	0.010	0.0015	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

Client Sample ID: RI MW-3
Lab Sample ID: 480-224998-1
Date Collected: 10/30/24 09:30
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U F1	1.0	0.82	ug/L			11/02/24 18:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/02/24 18:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/02/24 18:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/02/24 18:54	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/02/24 18:54	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/02/24 18:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/02/24 18:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/02/24 18:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/02/24 18:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/02/24 18:54	1
1,2-Dichloroethane	1.0	U F1	1.0	0.21	ug/L			11/02/24 18:54	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/02/24 18:54	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/02/24 18:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/02/24 18:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/02/24 18:54	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/02/24 18:54	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/02/24 18:54	1
4-Isopropyltoluene	1.0	U	1.0	0.31	ug/L			11/02/24 18:54	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/02/24 18:54	1
Acetone	10	U	10	3.0	ug/L			11/02/24 18:54	1
Benzene	1.0	U	1.0	0.41	ug/L			11/02/24 18:54	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/02/24 18:54	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/02/24 18:54	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/02/24 18:54	1
Carbon tetrachloride	1.0	U F1	1.0	0.27	ug/L			11/02/24 18:54	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/02/24 18:54	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/02/24 18:54	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/02/24 18:54	1
Chloroform	**2.3**		1.0	0.34	ug/L			11/02/24 18:54	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/02/24 18:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/02/24 18:54	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/02/24 18:54	1
Bromodichloromethane	1.0	U F1	1.0	0.39	ug/L			11/02/24 18:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/02/24 18:54	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/02/24 18:54	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/02/24 18:54	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/02/24 18:54	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/02/24 18:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/02/24 18:54	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/02/24 18:54	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/02/24 18:54	1
m,p-Xylene	2.0	U	2.0	0.66	ug/L			11/02/24 18:54	1
Naphthalene	1.0	U	1.0	0.43	ug/L			11/02/24 18:54	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			11/02/24 18:54	1
N-Propylbenzene	1.0	U	1.0	0.69	ug/L			11/02/24 18:54	1
o-Xylene	1.0	U	1.0	0.76	ug/L			11/02/24 18:54	1
sec-Butylbenzene	1.0	U	1.0	0.75	ug/L			11/02/24 18:54	1
Tetrachloroethene	**12**	**F1**	1.0	0.36	ug/L			11/02/24 18:54	1
Toluene	1.0	U	1.0	0.51	ug/L			11/02/24 18:54	1

Client Sample ID: RI MW-3
Date Collected: 10/30/24 09:30
Date Received: 10/30/24 15:55

Lab Sample ID: 480-224998-1
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	1.0	U	1.0	0.90	ug/L			11/02/24 18:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/02/24 18:54	1
Trichloroethene	**3.5**		1.0	0.46	ug/L			11/02/24 18:54	1
Trichlorofluoromethane	1.0	U F1	1.0	0.88	ug/L			11/02/24 18:54	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/02/24 18:54	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/02/24 18:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/02/24 18:54	1
Styrene	1.0	U	1.0	0.73	ug/L			11/02/24 18:54	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			11/02/24 18:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*11/02/24 18:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*77 - 120*		*11/02/24 18:54*	*1*
4-Bromofluorobenzene (Surr)	*114*		*73 - 120*		*11/02/24 18:54*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/02/24 18:54*	*1*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*11/02/24 18:54*	*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	0.20	U	0.20	0.10	ug/L		10/31/24 13:53	11/01/24 12:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*41*		*15 - 110*	*10/31/24 13:53*	*11/01/24 12:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	5.0	U	5.0	0.65	ug/L		10/31/24 13:59	11/01/24 15:06	1
bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	ug/L		10/31/24 13:59	11/01/24 15:06	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.48	ug/L		10/31/24 13:59	11/01/24 15:06	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.61	ug/L		10/31/24 13:59	11/01/24 15:06	1
2,4-Dichlorophenol	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/01/24 15:06	1
2,4-Dimethylphenol	5.0	U	5.0	0.50	ug/L		10/31/24 13:59	11/01/24 15:06	1
2,4-Dinitrophenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/01/24 15:06	1
2,4-Dinitrotoluene	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/01/24 15:06	1
2,6-Dinitrotoluene	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/01/24 15:06	1
2-Chloronaphthalene	5.0	U	5.0	0.46	ug/L		10/31/24 13:59	11/01/24 15:06	1
2-Chlorophenol	5.0	U	5.0	0.53	ug/L		10/31/24 13:59	11/01/24 15:06	1
2-Methylnaphthalene	5.0	U	5.0	0.60	ug/L		10/31/24 13:59	11/01/24 15:06	1
2-Methylphenol	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/01/24 15:06	1
2-Nitroaniline	10	U	10	0.42	ug/L		10/31/24 13:59	11/01/24 15:06	1
2-Nitrophenol	5.0	U	5.0	0.48	ug/L		10/31/24 13:59	11/01/24 15:06	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/01/24 15:06	1
3-Nitroaniline	10	U	10	0.48	ug/L		10/31/24 13:59	11/01/24 15:06	1
4,6-Dinitro-2-methylphenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/01/24 15:06	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/01/24 15:06	1
4-Chloro-3-methylphenol	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/01/24 15:06	1
4-Chloroaniline	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/01/24 15:06	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/01/24 15:06	1
4-Methylphenol	10	U	10	0.36	ug/L		10/31/24 13:59	11/01/24 15:06	1

Client Sample ID: RI MW-3
Lab Sample ID: 480-224998-1
Date Collected: 10/30/24 09:30
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	10	U	10	0.25	ug/L		10/31/24 13:59	11/01/24 15:06	1
4-Nitrophenol	10	U	10	1.5	ug/L		10/31/24 13:59	11/01/24 15:06	1
Acenaphthene	5.0	U	5.0	0.41	ug/L		10/31/24 13:59	11/01/24 15:06	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		10/31/24 13:59	11/01/24 15:06	1
Acetophenone	5.0	U	5.0	0.54	ug/L		10/31/24 13:59	11/01/24 15:06	1
Anthracene	5.0	U	5.0	0.28	ug/L		10/31/24 13:59	11/01/24 15:06	1
Atrazine	5.0	U F2	5.0	0.46	ug/L		10/31/24 13:59	11/01/24 15:06	1
Benzaldehyde	5.0	U	5.0	0.27	ug/L		10/31/24 13:59	11/01/24 15:06	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/01/24 15:06	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/01/24 15:06	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/31/24 13:59	11/01/24 15:06	1
Benzo(g,h,i)perylene	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/01/24 15:06	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/31/24 13:59	11/01/24 15:06	1
Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/01/24 15:06	1
Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/01/24 15:06	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	ug/L		10/31/24 13:59	11/01/24 15:06	1
Butyl benzyl phthalate	5.0	U	5.0	1.0	ug/L		10/31/24 13:59	11/01/24 15:06	1
Caprolactam	5.0	U	5.0	2.2	ug/L		10/31/24 13:59	11/01/24 15:06	1
Carbazole	5.0	U	5.0	0.30	ug/L		10/31/24 13:59	11/01/24 15:06	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/31/24 13:59	11/01/24 15:06	1
Di-n-butyl phthalate	5.0	U	5.0	0.31	ug/L		10/31/24 13:59	11/01/24 15:06	1
Di-n-octyl phthalate	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/01/24 15:06	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/31/24 13:59	11/01/24 15:06	1
Dibenzofuran	10	U	10	0.51	ug/L		10/31/24 13:59	11/01/24 15:06	1
Diethyl phthalate	5.0	U	5.0	0.22	ug/L		10/31/24 13:59	11/01/24 15:06	1
Dimethyl phthalate	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/01/24 15:06	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/01/24 15:06	1
Fluorene	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/01/24 15:06	1
Hexachlorobenzene	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/01/24 15:06	1
Hexachlorobutadiene	5.0	U	5.0	0.68	ug/L		10/31/24 13:59	11/01/24 15:06	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/01/24 15:06	1
Hexachloroethane	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/01/24 15:06	1
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/01/24 15:06	1
Isophorone	5.0	U	5.0	0.43	ug/L		10/31/24 13:59	11/01/24 15:06	1
N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	ug/L		10/31/24 13:59	11/01/24 15:06	1
N-Nitrosodiphenylamine	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/01/24 15:06	1
Naphthalene	5.0	U	5.0	0.76	ug/L		10/31/24 13:59	11/01/24 15:06	1
Nitrobenzene	5.0	U	5.0	0.29	ug/L		10/31/24 13:59	11/01/24 15:06	1
Pentachlorophenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/01/24 15:06	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		10/31/24 13:59	11/01/24 15:06	1
Phenol	5.0	U	5.0	0.39	ug/L		10/31/24 13:59	11/01/24 15:06	1
Pyrene	5.0	U	5.0	0.34	ug/L		10/31/24 13:59	11/01/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*25 - 144*	*10/31/24 13:59*	*11/01/24 15:06*	*1*
2-Fluorobiphenyl	*83*		*53 - 126*	*10/31/24 13:59*	*11/01/24 15:06*	*1*
2-Fluorophenol	*62*		*24 - 120*	*10/31/24 13:59*	*11/01/24 15:06*	*1*
Nitrobenzene-d5	*94*		*29 - 129*	*10/31/24 13:59*	*11/01/24 15:06*	*1*
p-Terphenyl-d14	*75*		*33 - 132*	*10/31/24 13:59*	*11/01/24 15:06*	*1*
Phenol-d5	*45*		*10 - 120*	*10/31/24 13:59*	*11/01/24 15:06*	*1*

Client Sample ID: RI MW-3
Date Collected: 10/30/24 09:30
Date Received: 10/30/24 15:55

Lab Sample ID: 480-224998-1
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.050	U	0.050	0.0092	ug/L		11/05/24 09:19	11/06/24 10:24	1
4,4'-DDE	0.050	U	0.050	0.012	ug/L		11/05/24 09:19	11/06/24 10:24	1
4,4'-DDT	**0.024**	**J B**	0.050	0.011	ug/L		11/05/24 09:19	11/06/24 10:24	1
Aldrin	0.050	U	0.050	0.0081	ug/L		11/05/24 09:19	11/06/24 10:24	1
alpha-BHC	0.050	U	0.050	0.0077	ug/L		11/05/24 09:19	11/06/24 10:24	1
Chlordane (.alpha.)	0.050	U	0.050	0.015	ug/L		11/05/24 09:19	11/06/24 10:24	1
beta-BHC	0.050	U	0.050	0.025	ug/L		11/05/24 09:19	11/06/24 10:24	1
delta-BHC	0.050	U	0.050	0.010	ug/L		11/05/24 09:19	11/06/24 10:24	1
Dieldrin	0.050	U	0.050	0.0098	ug/L		11/05/24 09:19	11/06/24 10:24	1
Endosulfan I	0.050	U	0.050	0.011	ug/L		11/05/24 09:19	11/06/24 10:24	1
Endosulfan II	**0.013**	**J B**	0.050	0.012	ug/L		11/05/24 09:19	11/06/24 10:24	1
Endosulfan sulfate	0.050	U	0.050	0.016	ug/L		11/05/24 09:19	11/06/24 10:24	1
Endrin	0.050	U	0.050	0.014	ug/L		11/05/24 09:19	11/06/24 10:24	1
Lindane	0.050	U	0.050	0.0080	ug/L		11/05/24 09:19	11/06/24 10:24	1
Heptachlor	0.050	U	0.050	0.0085	ug/L		11/05/24 09:19	11/06/24 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*10 - 120*	*11/05/24 09:19*	*11/06/24 10:24*	*1*
DCB Decachlorobiphenyl	*47*		*10 - 120*	*11/05/24 09:19*	*11/06/24 10:24*	*1*
Tetrachloro-m-xylene	*68*		*10 - 120*	*11/05/24 09:19*	*11/06/24 10:24*	*1*
Tetrachloro-m-xylene	*121*	*S1+*	*10 - 120*	*11/05/24 09:19*	*11/06/24 10:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.60	U	0.60	0.21	ug/L		11/07/24 09:15	11/07/24 15:56	1
PCB-1221	0.60	U	0.60	0.21	ug/L		11/07/24 09:15	11/07/24 15:56	1
PCB-1232	0.60	U	0.60	0.21	ug/L		11/07/24 09:15	11/07/24 15:56	1
PCB-1242	0.60	U	0.60	0.21	ug/L		11/07/24 09:15	11/07/24 15:56	1
PCB-1248	0.60	U	0.60	0.21	ug/L		11/07/24 09:15	11/07/24 15:56	1
PCB-1254	0.60	U	0.60	0.30	ug/L		11/07/24 09:15	11/07/24 15:56	1
PCB-1260	0.60	U	0.60	0.30	ug/L		11/07/24 09:15	11/07/24 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*10 - 145*	*11/07/24 09:15*	*11/07/24 15:56*	*1*
Tetrachloro-m-xylene	*68*		*10 - 145*	*11/07/24 09:15*	*11/07/24 15:56*	*1*
DCB Decachlorobiphenyl	*48*		*10 - 123*	*11/07/24 09:15*	*11/07/24 15:56*	*1*
DCB Decachlorobiphenyl	*73*		*10 - 123*	*11/07/24 09:15*	*11/07/24 15:56*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	0.51	U	0.51	0.051	ug/L		11/04/24 09:29	11/05/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*74*		*21 - 143*	*11/04/24 09:29*	*11/05/24 19:23*	*1*
2,4-Dichlorophenylacetic acid	*75*		*21 - 143*	*11/04/24 09:29*	*11/05/24 19:23*	*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)	**17**		6.9	1.8	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluoropentanoic acid (PFPeA)	**19**		3.5	0.86	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorohexanoic acid (PFHxA)	**18**		1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1

Client Sample ID: RI MW-3
Lab Sample ID: 480-224998-1
Date Collected: 10/30/24 09:30
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	**9.3**		1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorooctanoic acid (PFOA)	**16**		1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorononanoic acid (PFNA)	**1.5**	**J**	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorodecanoic acid (PFDA)	**0.81**	**J**	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorododecanoic acid (PFDoA)	1.7	U	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorotridecanoic acid (PFTrDA)	1.7	U	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorotetradecanoic acid (PFTeDA)	1.7	U	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorobutanesulfonic acid (PFBS)	**3.1**		1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluoropentanesulfonic acid (PFPeS)	**0.50**	**J**	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorohexanesulfonic acid (PFHxS)	**2.0**		1.7	0.45	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluoroheptanesulfonic acid (PFHpS)	1.7	U	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorooctanesulfonic acid (PFOS)	**5.2**		1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorononanesulfonic acid (PFNS)	1.7	U	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorododecanesulfonic acid (PFDoS)	1.7	U	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	6.9	U	6.9	1.7	ng/L		11/04/24 07:45	11/04/24 18:55	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	6.9	U	6.9	1.7	ng/L		11/04/24 07:45	11/04/24 18:55	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.9	U	6.9	1.7	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorooctanesulfonamide (PFOSA)	1.7	U	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.7	U	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.7	U	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.7	U	1.7	0.54	ng/L		11/04/24 07:45	11/04/24 18:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.7	U	1.7	0.45	ng/L		11/04/24 07:45	11/04/24 18:55	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	17	U	17	4.3	ng/L		11/04/24 07:45	11/04/24 18:55	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	17	U	17	4.3	ng/L		11/04/24 07:45	11/04/24 18:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.9	U	6.9	1.7	ng/L		11/04/24 07:45	11/04/24 18:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.9	U	6.9	1.7	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.5	U	3.5	0.86	ng/L		11/04/24 07:45	11/04/24 18:55	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.5	U	3.5	1.1	ng/L		11/04/24 07:45	11/04/24 18:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	6.9	U	6.9	1.7	ng/L		11/04/24 07:45	11/04/24 18:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.9	U	6.9	1.7	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.5	U	3.5	0.86	ng/L		11/04/24 07:45	11/04/24 18:55	1

Client Sample ID: RI MW-3
Date Collected: 10/30/24 09:30
Date Received: 10/30/24 15:55

Lab Sample ID: 480-224998-1
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
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.6	U	8.6	2.2	ng/L		11/04/24 07:45	11/04/24 18:55	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	43	U	43	11	ng/L		11/04/24 07:45	11/04/24 18:55	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	43	U	43	13	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.43	ng/L		11/04/24 07:45	11/04/24 18:55	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.5	U	3.5	0.86	ng/L		11/04/24 07:45	11/04/24 18:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88.4*		*10 - 130*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C5 PFPeA	*81.5*		*35 - 150*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C5 PFHxA	*85.3*		*55 - 150*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C4 PFHpA	*87.7*		*55 - 150*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C8 PFOA	*88.9*		*60 - 140*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C9 PFNA	*84.2*		*55 - 140*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C6 PFDA	*82.9*		*50 - 140*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C7 PFUnA	*75.6*		*30 - 140*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C2 PFTeDA	*62.3*		*10 - 130*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C3 PFBS	*96.9*		*55 - 150*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C3 PFHxS	*81.4*		*55 - 150*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C8 PFOS	*81.8*		*45 - 140*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C8 PFOSA	*75.8*		*30 - 130*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
d3-NMeFOSAA	*74.5*		*45 - 200*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
d5-NEtFOSAA	*76.0*		*10 - 200*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
M2-4:2 FTS	*121*		*60 - 200*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
M2-6:2 FTS	*100*		*60 - 200*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
M2-8:2 FTS	*92.8*		*50 - 200*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C3 HFPO-DA	*76.9*		*25 - 160*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
d7-N-MeFOSE-M	*69.2*		*10 - 150*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
d9-N-EtFOSE-M	*62.7*		*10 - 150*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
d5-NEtPFOSA	*52.0*		*10 - 130*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
D3-NMeFOSA	*53.8*		*15 - 130*	*11/04/24 07:45*	*11/04/24 18:55*	*1*
13C2-PFDoDA	*72.7*		*10 - 150*	*11/04/24 07:45*	*11/04/24 18:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.20	U	0.20	0.060	mg/L		11/01/24 08:53	11/04/24 15:30	1
Antimony	0.020	U	0.020	0.0068	mg/L		11/01/24 08:53	11/04/24 15:30	1
Arsenic	0.015	U	0.015	0.0056	mg/L		11/01/24 08:53	11/04/24 15:30	1
Barium	**0.050**		0.0020	0.00070	mg/L		11/01/24 08:53	11/04/24 15:30	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		11/01/24 08:53	11/04/24 15:30	1
Cadmium	**0.0044**		0.0020	0.00050	mg/L		11/01/24 08:53	11/04/24 15:30	1
Calcium	**120**		0.50	0.10	mg/L		11/01/24 08:53	11/04/24 15:30	1
Chromium	**0.0019**	**J**	0.0040	0.0010	mg/L		11/01/24 08:53	11/04/24 15:30	1
Cobalt	**0.00089**	**J**	0.0040	0.00063	mg/L		11/01/24 08:53	11/04/24 15:30	1
Copper	0.010	U	0.010	0.0016	mg/L		11/01/24 08:53	11/04/24 15:30	1
Iron	0.050	U	0.050	0.019	mg/L		11/01/24 08:53	11/04/24 15:30	1
Lead	0.010	U	0.010	0.0030	mg/L		11/01/24 08:53	11/04/24 15:30	1
Magnesium	**33.1**		0.20	0.043	mg/L		11/01/24 08:53	11/04/24 15:30	1

Client Sample ID: RI MW-3
Lab Sample ID: 480-224998-1
Date Collected: 10/30/24 09:30
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.0025**	**J B**	0.0030	0.00040	mg/L		11/01/24 08:53	11/04/24 15:30	1
Nickel	**0.0027**	**J**	0.010	0.0013	mg/L		11/01/24 08:53	11/04/24 15:30	1
Potassium	**19.1**		0.50	0.10	mg/L		11/01/24 08:53	11/04/24 15:30	1
Selenium	0.025	U	0.025	0.0087	mg/L		11/01/24 08:53	11/04/24 15:30	1
Silver	0.0060	U	0.0060	0.0017	mg/L		11/01/24 08:53	11/04/24 15:30	1
Sodium	**267**		1.0	0.32	mg/L		11/01/24 08:53	11/04/24 15:30	1
Thallium	0.020	U	0.020	0.010	mg/L		11/01/24 08:53	11/04/24 15:30	1
Vanadium	0.0050	U	0.0050	0.0015	mg/L		11/01/24 08:53	11/04/24 15:30	1
Zinc	**1.4**	**B F1**	0.010	0.0015	mg/L		11/01/24 08:53	11/04/24 15:30	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000042	mg/L		11/01/24 11:02	11/01/24 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.0041**	**J**	0.010	0.0041	mg/L			11/05/24 09:14	1
Chromium, hexavalent (SW846 7196A)	0.010	U	0.010	0.0050	mg/L			10/31/24 07:59	1

Client Sample ID: RI MW-3 DUP
Lab Sample ID: 480-224998-2
Date Collected: 10/30/24 10:30
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/01/24 14:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/01/24 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/01/24 14:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/01/24 14:32	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/01/24 14:32	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/01/24 14:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/01/24 14:32	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/01/24 14:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/01/24 14:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/01/24 14:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/01/24 14:32	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/01/24 14:32	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/01/24 14:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/01/24 14:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/01/24 14:32	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/01/24 14:32	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/01/24 14:32	1
4-Isopropyltoluene	1.0	U	1.0	0.31	ug/L			11/01/24 14:32	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/01/24 14:32	1
Acetone	10	U	10	3.0	ug/L			11/01/24 14:32	1
Benzene	1.0	U	1.0	0.41	ug/L			11/01/24 14:32	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/01/24 14:32	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/01/24 14:32	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/01/24 14:32	1
Carbon tetrachloride	**0.29**	**J**	1.0	0.27	ug/L			11/01/24 14:32	1

Client Sample ID: RI MW-3 DUP
Lab Sample ID: 480-224998-2

Date Collected: 10/30/24 10:30
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/01/24 14:32	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/01/24 14:32	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/01/24 14:32	1
Chloroform	**1.9**		1.0	0.34	ug/L			11/01/24 14:32	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/01/24 14:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/01/24 14:32	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/01/24 14:32	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/01/24 14:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/01/24 14:32	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/01/24 14:32	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/01/24 14:32	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/01/24 14:32	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/01/24 14:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/01/24 14:32	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/01/24 14:32	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/01/24 14:32	1
m,p-Xylene	2.0	U	2.0	0.66	ug/L			11/01/24 14:32	1
Naphthalene	1.0	U	1.0	0.43	ug/L			11/01/24 14:32	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			11/01/24 14:32	1
N-Propylbenzene	1.0	U	1.0	0.69	ug/L			11/01/24 14:32	1
o-Xylene	1.0	U	1.0	0.76	ug/L			11/01/24 14:32	1
sec-Butylbenzene	1.0	U	1.0	0.75	ug/L			11/01/24 14:32	1
Tetrachloroethene	**11**		1.0	0.36	ug/L			11/01/24 14:32	1
Toluene	1.0	U	1.0	0.51	ug/L			11/01/24 14:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/01/24 14:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/01/24 14:32	1
Trichloroethene	**3.2**		1.0	0.46	ug/L			11/01/24 14:32	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/01/24 14:32	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/01/24 14:32	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/01/24 14:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/01/24 14:32	1
Styrene	1.0	U	1.0	0.73	ug/L			11/01/24 14:32	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			11/01/24 14:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*11/01/24 14:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/01/24 14:32*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*11/01/24 14:32*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/01/24 14:32*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*11/01/24 14:32*	*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	0.21	U	0.21	0.10	ug/L		10/31/24 13:53	11/01/24 13:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*43*		*15 - 110*	*10/31/24 13:53*	*11/01/24 13:26*	*1*

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

Client Sample ID: RI MW-3 DUP
Lab Sample ID: 480-224998-2
Date Collected: 10/30/24 10:30
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	5.2	U	5.2	0.68	ug/L		10/31/24 13:59	11/04/24 14:11	1
bis (2-chloroisopropyl) ether	5.2	U	5.2	0.54	ug/L		10/31/24 13:59	11/04/24 14:11	1
2,4,5-Trichlorophenol	5.2	U	5.2	0.50	ug/L		10/31/24 13:59	11/04/24 14:11	1
2,4,6-Trichlorophenol	5.2	U	5.2	0.64	ug/L		10/31/24 13:59	11/04/24 14:11	1
2,4-Dichlorophenol	5.2	U	5.2	0.53	ug/L		10/31/24 13:59	11/04/24 14:11	1
2,4-Dimethylphenol	5.2	U	5.2	0.52	ug/L		10/31/24 13:59	11/04/24 14:11	1
2,4-Dinitrophenol	10	U	10	2.3	ug/L		10/31/24 13:59	11/04/24 14:11	1
2,4-Dinitrotoluene	5.2	U	5.2	0.47	ug/L		10/31/24 13:59	11/04/24 14:11	1
2,6-Dinitrotoluene	5.2	U	5.2	0.42	ug/L		10/31/24 13:59	11/04/24 14:11	1
2-Chloronaphthalene	5.2	U	5.2	0.48	ug/L		10/31/24 13:59	11/04/24 14:11	1
2-Chlorophenol	5.2	U	5.2	0.55	ug/L		10/31/24 13:59	11/04/24 14:11	1
2-Methylnaphthalene	5.2	U	5.2	0.63	ug/L		10/31/24 13:59	11/04/24 14:11	1
2-Methylphenol	5.2	U	5.2	0.42	ug/L		10/31/24 13:59	11/04/24 14:11	1
2-Nitroaniline	10	U	10	0.44	ug/L		10/31/24 13:59	11/04/24 14:11	1
2-Nitrophenol	5.2	U	5.2	0.50	ug/L		10/31/24 13:59	11/04/24 14:11	1
3,3'-Dichlorobenzidine	5.2	U	5.2	0.42	ug/L		10/31/24 13:59	11/04/24 14:11	1
3-Nitroaniline	10	U	10	0.50	ug/L		10/31/24 13:59	11/04/24 14:11	1
4,6-Dinitro-2-methylphenol	10	U	10	2.3	ug/L		10/31/24 13:59	11/04/24 14:11	1
4-Bromophenyl phenyl ether	5.2	U	5.2	0.47	ug/L		10/31/24 13:59	11/04/24 14:11	1
4-Chloro-3-methylphenol	5.2	U	5.2	0.47	ug/L		10/31/24 13:59	11/04/24 14:11	1
4-Chloroaniline	5.2	U	5.2	0.61	ug/L		10/31/24 13:59	11/04/24 14:11	1
4-Chlorophenyl phenyl ether	5.2	U	5.2	0.36	ug/L		10/31/24 13:59	11/04/24 14:11	1
4-Methylphenol	10	U	10	0.38	ug/L		10/31/24 13:59	11/04/24 14:11	1
4-Nitroaniline	10	U	10	0.26	ug/L		10/31/24 13:59	11/04/24 14:11	1
4-Nitrophenol	10	U	10	1.6	ug/L		10/31/24 13:59	11/04/24 14:11	1
Acenaphthene	5.2	U	5.2	0.43	ug/L		10/31/24 13:59	11/04/24 14:11	1
Acenaphthylene	5.2	U	5.2	0.40	ug/L		10/31/24 13:59	11/04/24 14:11	1
Acetophenone	5.2	U	5.2	0.56	ug/L		10/31/24 13:59	11/04/24 14:11	1
Anthracene	5.2	U	5.2	0.29	ug/L		10/31/24 13:59	11/04/24 14:11	1
Atrazine	5.2	U	5.2	0.48	ug/L		10/31/24 13:59	11/04/24 14:11	1
Benzaldehyde	5.2	U	5.2	0.28	ug/L		10/31/24 13:59	11/04/24 14:11	1
Benzo(a)anthracene	5.2	U	5.2	0.38	ug/L		10/31/24 13:59	11/04/24 14:11	1
Benzo(a)pyrene	5.2	U	5.2	0.49	ug/L		10/31/24 13:59	11/04/24 14:11	1
Benzo(b)fluoranthene	5.2	U	5.2	0.35	ug/L		10/31/24 13:59	11/04/24 14:11	1
Benzo(g,h,i)perylene	5.2	U	5.2	0.36	ug/L		10/31/24 13:59	11/04/24 14:11	1
Benzo(k)fluoranthene	5.2	U	5.2	0.76	ug/L		10/31/24 13:59	11/04/24 14:11	1
Bis(2-chloroethoxy)methane	5.2	U	5.2	0.36	ug/L		10/31/24 13:59	11/04/24 14:11	1
Bis(2-chloroethyl)ether	5.2	U	5.2	0.42	ug/L		10/31/24 13:59	11/04/24 14:11	1
Bis(2-ethylhexyl) phthalate	5.2	U	5.2	2.3	ug/L		10/31/24 13:59	11/04/24 14:11	1
Butyl benzyl phthalate	5.2	U	5.2	1.0	ug/L		10/31/24 13:59	11/04/24 14:11	1
Caprolactam	5.2	U	5.2	2.3	ug/L		10/31/24 13:59	11/04/24 14:11	1
Carbazole	5.2	U	5.2	0.31	ug/L		10/31/24 13:59	11/04/24 14:11	1
Chrysene	5.2	U	5.2	0.34	ug/L		10/31/24 13:59	11/04/24 14:11	1
Di-n-butyl phthalate	5.2	U	5.2	0.32	ug/L		10/31/24 13:59	11/04/24 14:11	1
Di-n-octyl phthalate	5.2	U	5.2	0.49	ug/L		10/31/24 13:59	11/04/24 14:11	1
Dibenz(a,h)anthracene	5.2	U	5.2	0.44	ug/L		10/31/24 13:59	11/04/24 14:11	1
Dibenzofuran	10	U	10	0.53	ug/L		10/31/24 13:59	11/04/24 14:11	1
Diethyl phthalate	5.2	U	5.2	0.23	ug/L		10/31/24 13:59	11/04/24 14:11	1
Dimethyl phthalate	5.2	U	5.2	0.38	ug/L		10/31/24 13:59	11/04/24 14:11	1

Client Sample ID: RI MW-3 DUP
Lab Sample ID: 480-224998-2
Date Collected: 10/30/24 10:30
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	5.2	U	5.2	0.42	ug/L		10/31/24 13:59	11/04/24 14:11	1
Fluorene	5.2	U	5.2	0.38	ug/L		10/31/24 13:59	11/04/24 14:11	1
Hexachlorobenzene	5.2	U	5.2	0.53	ug/L		10/31/24 13:59	11/04/24 14:11	1
Hexachlorobutadiene	5.2	U	5.2	0.71	ug/L		10/31/24 13:59	11/04/24 14:11	1
Hexachlorocyclopentadiene	5.2	U	5.2	0.61	ug/L		10/31/24 13:59	11/04/24 14:11	1
Hexachloroethane	5.2	U	5.2	0.61	ug/L		10/31/24 13:59	11/04/24 14:11	1
Indeno(1,2,3-cd)pyrene	5.2	U	5.2	0.49	ug/L		10/31/24 13:59	11/04/24 14:11	1
Isophorone	5.2	U	5.2	0.45	ug/L		10/31/24 13:59	11/04/24 14:11	1
N-Nitrosodi-n-propylamine	5.2	U	5.2	0.56	ug/L		10/31/24 13:59	11/04/24 14:11	1
N-Nitrosodiphenylamine	5.2	U	5.2	0.53	ug/L		10/31/24 13:59	11/04/24 14:11	1
Naphthalene	5.2	U	5.2	0.79	ug/L		10/31/24 13:59	11/04/24 14:11	1
Nitrobenzene	5.2	U	5.2	0.30	ug/L		10/31/24 13:59	11/04/24 14:11	1
Pentachlorophenol	10	U	10	2.3	ug/L		10/31/24 13:59	11/04/24 14:11	1
Phenanthrene	5.2	U	5.2	0.46	ug/L		10/31/24 13:59	11/04/24 14:11	1
Phenol	5.2	U	5.2	0.41	ug/L		10/31/24 13:59	11/04/24 14:11	1
Pyrene	5.2	U	5.2	0.35	ug/L		10/31/24 13:59	11/04/24 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*25 - 144*	*10/31/24 13:59*	*11/04/24 14:11*	*1*
2-Fluorobiphenyl	*82*		*53 - 126*	*10/31/24 13:59*	*11/04/24 14:11*	*1*
2-Fluorophenol	*57*		*24 - 120*	*10/31/24 13:59*	*11/04/24 14:11*	*1*
Nitrobenzene-d5	*85*		*29 - 129*	*10/31/24 13:59*	*11/04/24 14:11*	*1*
p-Terphenyl-d14	*83*		*33 - 132*	*10/31/24 13:59*	*11/04/24 14:11*	*1*
Phenol-d5	*43*		*10 - 120*	*10/31/24 13:59*	*11/04/24 14:11*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.052	U	0.052	0.0096	ug/L		11/05/24 09:19	11/06/24 10:44	1
4,4'-DDE	0.052	U	0.052	0.012	ug/L		11/05/24 09:19	11/06/24 10:44	1
4,4'-DDT	**0.022**	**J B**	0.052	0.011	ug/L		11/05/24 09:19	11/06/24 10:44	1
Aldrin	0.052	U	0.052	0.0084	ug/L		11/05/24 09:19	11/06/24 10:44	1
alpha-BHC	0.052	U	0.052	0.0080	ug/L		11/05/24 09:19	11/06/24 10:44	1
Chlordane (.alpha.)	0.052	U	0.052	0.015	ug/L		11/05/24 09:19	11/06/24 10:44	1
beta-BHC	0.052	U	0.052	0.026	ug/L		11/05/24 09:19	11/06/24 10:44	1
delta-BHC	0.052	U	0.052	0.010	ug/L		11/05/24 09:19	11/06/24 10:44	1
Dieldrin	0.052	U	0.052	0.010	ug/L		11/05/24 09:19	11/06/24 10:44	1
Endosulfan I	0.052	U	0.052	0.011	ug/L		11/05/24 09:19	11/06/24 10:44	1
Endosulfan II	0.052	U	0.052	0.013	ug/L		11/05/24 09:19	11/06/24 10:44	1
Endosulfan sulfate	0.052	U	0.052	0.016	ug/L		11/05/24 09:19	11/06/24 10:44	1
Endrin	0.052	U	0.052	0.014	ug/L		11/05/24 09:19	11/06/24 10:44	1
Lindane	0.052	U	0.052	0.0083	ug/L		11/05/24 09:19	11/06/24 10:44	1
Heptachlor	0.052	U	0.052	0.0089	ug/L		11/05/24 09:19	11/06/24 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*10 - 120*	*11/05/24 09:19*	*11/06/24 10:44*	*1*
DCB Decachlorobiphenyl	*59*		*10 - 120*	*11/05/24 09:19*	*11/06/24 10:44*	*1*
Tetrachloro-m-xylene	*72*		*10 - 120*	*11/05/24 09:19*	*11/06/24 10:44*	*1*
Tetrachloro-m-xylene	*106*		*10 - 120*	*11/05/24 09:19*	*11/06/24 10:44*	*1*

Client Sample ID: RI MW-3 DUP
Date Collected: 10/30/24 10:30
Date Received: 10/30/24 15:55

Lab Sample ID: 480-224998-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.63	U	0.63	0.22	ug/L		11/07/24 09:15	11/07/24 16:14	1
PCB-1221	0.63	U	0.63	0.22	ug/L		11/07/24 09:15	11/07/24 16:14	1
PCB-1232	0.63	U	0.63	0.22	ug/L		11/07/24 09:15	11/07/24 16:14	1
PCB-1242	0.63	U	0.63	0.22	ug/L		11/07/24 09:15	11/07/24 16:14	1
PCB-1248	0.63	U	0.63	0.22	ug/L		11/07/24 09:15	11/07/24 16:14	1
PCB-1254	0.63	U	0.63	0.31	ug/L		11/07/24 09:15	11/07/24 16:14	1
PCB-1260	0.63	U	0.63	0.31	ug/L		11/07/24 09:15	11/07/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*10 - 145*	*11/07/24 09:15*	*11/07/24 16:14*	*1*
Tetrachloro-m-xylene	*74*		*10 - 145*	*11/07/24 09:15*	*11/07/24 16:14*	*1*
DCB Decachlorobiphenyl	*45*		*10 - 123*	*11/07/24 09:15*	*11/07/24 16:14*	*1*
DCB Decachlorobiphenyl	*70*		*10 - 123*	*11/07/24 09:15*	*11/07/24 16:14*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	0.52	U	0.52	0.052	ug/L		11/04/24 09:29	11/05/24 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*81*		*21 - 143*	*11/04/24 09:29*	*11/05/24 19:42*	*1*
2,4-Dichlorophenylacetic acid	*78*		*21 - 143*	*11/04/24 09:29*	*11/05/24 19:42*	*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)	**17**		7.3	1.9	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluoropentanoic acid (PFPeA)	**19**		3.6	0.91	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorohexanoic acid (PFHxA)	**18**		1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluoroheptanoic acid (PFHpA)	**10**		1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorooctanoic acid (PFOA)	**16**		1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorononanoic acid (PFNA)	**1.4**	**J**	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorodecanoic acid (PFDA)	**0.84**	**J**	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorotridecanoic acid (PFTrDA)	1.8	U	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorotetradecanoic acid (PFTeDA)	1.8	U	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorobutanesulfonic acid (PFBS)	**3.3**		1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluoropentanesulfonic acid (PFPeS)	**0.54**	**J**	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorohexanesulfonic acid (PFHxS)	**1.9**		1.8	0.47	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluoroheptanesulfonic acid (PFHpS)	1.8	U	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorooctanesulfonic acid (PFOS)	**5.2**		1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorononanesulfonic acid (PFNS)	1.8	U	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorododecanesulfonic acid (PFDoS)	1.8	U	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.3	U	7.3	1.8	ng/L		11/04/24 07:45	11/04/24 20:18	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.3	U	7.3	1.8	ng/L		11/04/24 07:45	11/04/24 20:18	1

Client Sample ID: RI MW-3 DUP
Lab Sample ID: 480-224998-2
Date Collected: 10/30/24 10:30
Matrix: Water
Date Received: 10/30/24 15:55

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)	7.3	U	7.3	1.8	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorooctanesulfonamide (PFOSA)	1.8	U	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.8	U	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.8	U	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.8	U	1.8	0.56	ng/L		11/04/24 07:45	11/04/24 20:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.8	U	1.8	0.47	ng/L		11/04/24 07:45	11/04/24 20:18	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	18	U	18	4.6	ng/L		11/04/24 07:45	11/04/24 20:18	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	18	U	18	4.6	ng/L		11/04/24 07:45	11/04/24 20:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	7.3	U	7.3	1.8	ng/L		11/04/24 07:45	11/04/24 20:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.3	U	7.3	1.8	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.6	U	3.6	0.91	ng/L		11/04/24 07:45	11/04/24 20:18	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.6	U	3.6	1.1	ng/L		11/04/24 07:45	11/04/24 20:18	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	7.3	U	7.3	1.8	ng/L		11/04/24 07:45	11/04/24 20:18	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	7.3	U	7.3	1.8	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.6	U	3.6	0.91	ng/L		11/04/24 07:45	11/04/24 20:18	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	9.1	U	9.1	2.3	ng/L		11/04/24 07:45	11/04/24 20:18	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	46	U	46	11	ng/L		11/04/24 07:45	11/04/24 20:18	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	46	U	46	14	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.46	ng/L		11/04/24 07:45	11/04/24 20:18	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.6	U	3.6	0.91	ng/L		11/04/24 07:45	11/04/24 20:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89.3*		*10 - 130*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C5 PFPeA	*83.3*		*35 - 150*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C5 PFHxA	*85.3*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C4 PFHpA	*90.0*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C8 PFOA	*86.6*		*60 - 140*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C9 PFNA	*88.2*		*55 - 140*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C6 PFDA	*82.2*		*50 - 140*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C7 PFUnA	*77.0*		*30 - 140*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C2 PFTeDA	*65.6*		*10 - 130*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C3 PFBS	*91.8*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C3 PFHxS	*82.3*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C8 PFOS	*79.1*		*45 - 140*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C8 PFOSA	*71.2*		*30 - 130*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
d3-NMeFOSAA	*69.9*		*45 - 200*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
d5-NEtFOSAA	*68.9*		*10 - 200*	*11/04/24 07:45*	*11/04/24 20:18*	*1*

Client Sample ID: RI MW-3 DUP
Lab Sample ID: 480-224998-2

Date Collected: 10/30/24 10:30
Matrix: Water
Date Received: 10/30/24 15:55

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	*121*		*60 - 200*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
M2-6:2 FTS	*100*		*60 - 200*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
M2-8:2 FTS	*91.4*		*50 - 200*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C3 HFPO-DA	*78.1*		*25 - 160*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
d7-N-MeFOSE-M	*63.2*		*10 - 150*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
d9-N-EtFOSE-M	*58.1*		*10 - 150*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
d5-NEtPFOSA	*47.9*		*10 - 130*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
D3-NMeFOSA	*49.4*		*15 - 130*	*11/04/24 07:45*	*11/04/24 20:18*	*1*
13C2-PFDoDA	*75.1*		*10 - 150*	*11/04/24 07:45*	*11/04/24 20:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.20	U	0.20	0.060	mg/L		11/01/24 08:53	11/04/24 15:40	1
Antimony	0.020	U	0.020	0.0068	mg/L		11/01/24 08:53	11/04/24 15:40	1
Arsenic	0.015	U	0.015	0.0056	mg/L		11/01/24 08:53	11/04/24 15:40	1
Barium	**0.048**		0.0020	0.00070	mg/L		11/01/24 08:53	11/04/24 15:40	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		11/01/24 08:53	11/04/24 15:40	1
Cadmium	**0.0043**		0.0020	0.00050	mg/L		11/01/24 08:53	11/04/24 15:40	1
Calcium	**117**		0.50	0.10	mg/L		11/01/24 08:53	11/04/24 15:40	1
Chromium	**0.0015**	**J**	0.0040	0.0010	mg/L		11/01/24 08:53	11/04/24 15:40	1
Cobalt	**0.00063**	**J**	0.0040	0.00063	mg/L		11/01/24 08:53	11/04/24 15:40	1
Copper	0.010	U	0.010	0.0016	mg/L		11/01/24 08:53	11/04/24 15:40	1
Iron	**0.033**	**J**	0.050	0.019	mg/L		11/01/24 08:53	11/04/24 15:40	1
Lead	**0.0044**	**J**	0.010	0.0030	mg/L		11/01/24 08:53	11/04/24 15:40	1
Magnesium	**32.2**		0.20	0.043	mg/L		11/01/24 08:53	11/04/24 15:40	1
Manganese	**0.0027**	**J B**	0.0030	0.00040	mg/L		11/01/24 08:53	11/04/24 15:40	1
Nickel	**0.0030**	**J**	0.010	0.0013	mg/L		11/01/24 08:53	11/04/24 15:40	1
Potassium	**18.8**		0.50	0.10	mg/L		11/01/24 08:53	11/04/24 15:40	1
Selenium	0.025	U	0.025	0.0087	mg/L		11/01/24 08:53	11/04/24 15:40	1
Silver	0.0060	U	0.0060	0.0017	mg/L		11/01/24 08:53	11/04/24 15:40	1
Sodium	**263**		1.0	0.32	mg/L		11/01/24 08:53	11/04/24 15:40	1
Thallium	0.020	U	0.020	0.010	mg/L		11/01/24 08:53	11/04/24 15:40	1
Vanadium	0.0050	U	0.0050	0.0015	mg/L		11/01/24 08:53	11/04/24 15:40	1
Zinc	**1.4**	**B**	0.010	0.0015	mg/L		11/01/24 08:53	11/04/24 15:40	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000042	mg/L		11/01/24 11:02	11/01/24 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	0.010	U	0.010	0.0041	mg/L			11/05/24 09:24	1
Chromium, hexavalent (SW846 7196A)	0.010	U	0.010	0.0050	mg/L			10/31/24 07:59	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

Client Sample ID: RI MW-1
Lab Sample ID: 480-224998-3
Date Collected: 10/30/24 13:00
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/01/24 14:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/01/24 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/01/24 14:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/01/24 14:55	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/01/24 14:55	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/01/24 14:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/01/24 14:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/01/24 14:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/01/24 14:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/01/24 14:55	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/01/24 14:55	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/01/24 14:55	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/01/24 14:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/01/24 14:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/01/24 14:55	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/01/24 14:55	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/01/24 14:55	1
4-Isopropyltoluene	1.0	U	1.0	0.31	ug/L			11/01/24 14:55	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/01/24 14:55	1
Acetone	10	U	10	3.0	ug/L			11/01/24 14:55	1
Benzene	1.0	U	1.0	0.41	ug/L			11/01/24 14:55	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/01/24 14:55	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/01/24 14:55	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/01/24 14:55	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/01/24 14:55	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/01/24 14:55	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/01/24 14:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/01/24 14:55	1
Chloroform	**1.9**		1.0	0.34	ug/L			11/01/24 14:55	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/01/24 14:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/01/24 14:55	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/01/24 14:55	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/01/24 14:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/01/24 14:55	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/01/24 14:55	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/01/24 14:55	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/01/24 14:55	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/01/24 14:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/01/24 14:55	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/01/24 14:55	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/01/24 14:55	1
m,p-Xylene	2.0	U	2.0	0.66	ug/L			11/01/24 14:55	1
Naphthalene	1.0	U	1.0	0.43	ug/L			11/01/24 14:55	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			11/01/24 14:55	1
N-Propylbenzene	1.0	U	1.0	0.69	ug/L			11/01/24 14:55	1
o-Xylene	1.0	U	1.0	0.76	ug/L			11/01/24 14:55	1
sec-Butylbenzene	1.0	U	1.0	0.75	ug/L			11/01/24 14:55	1
Tetrachloroethene	**7.0**		1.0	0.36	ug/L			11/01/24 14:55	1
Toluene	1.0	U	1.0	0.51	ug/L			11/01/24 14:55	1

Client Sample ID: RI MW-1
Date Collected: 10/30/24 13:00
Date Received: 10/30/24 15:55

Lab Sample ID: 480-224998-3
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	1.0	U	1.0	0.90	ug/L			11/01/24 14:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/01/24 14:55	1
Trichloroethene	**2.2**		1.0	0.46	ug/L			11/01/24 14:55	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/01/24 14:55	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/01/24 14:55	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/01/24 14:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/01/24 14:55	1
Styrene	1.0	U	1.0	0.73	ug/L			11/01/24 14:55	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			11/01/24 14:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*11/01/24 14:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/01/24 14:55*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*11/01/24 14:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/01/24 14:55*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*11/01/24 14:55*	*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	0.20	U	0.20	0.10	ug/L		10/31/24 13:53	11/01/24 13:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*39*		*15 - 110*	*10/31/24 13:53*	*11/01/24 13:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	5.0	U	5.0	0.65	ug/L		10/31/24 13:59	11/04/24 14:39	1
bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	ug/L		10/31/24 13:59	11/04/24 14:39	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.48	ug/L		10/31/24 13:59	11/04/24 14:39	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.61	ug/L		10/31/24 13:59	11/04/24 14:39	1
2,4-Dichlorophenol	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/04/24 14:39	1
2,4-Dimethylphenol	5.0	U	5.0	0.50	ug/L		10/31/24 13:59	11/04/24 14:39	1
2,4-Dinitrophenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/04/24 14:39	1
2,4-Dinitrotoluene	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/04/24 14:39	1
2,6-Dinitrotoluene	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/04/24 14:39	1
2-Chloronaphthalene	5.0	U	5.0	0.46	ug/L		10/31/24 13:59	11/04/24 14:39	1
2-Chlorophenol	5.0	U	5.0	0.53	ug/L		10/31/24 13:59	11/04/24 14:39	1
2-Methylnaphthalene	5.0	U	5.0	0.60	ug/L		10/31/24 13:59	11/04/24 14:39	1
2-Methylphenol	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/04/24 14:39	1
2-Nitroaniline	10	U	10	0.42	ug/L		10/31/24 13:59	11/04/24 14:39	1
2-Nitrophenol	5.0	U	5.0	0.48	ug/L		10/31/24 13:59	11/04/24 14:39	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/04/24 14:39	1
3-Nitroaniline	10	U	10	0.48	ug/L		10/31/24 13:59	11/04/24 14:39	1
4,6-Dinitro-2-methylphenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/04/24 14:39	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/04/24 14:39	1
4-Chloro-3-methylphenol	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/04/24 14:39	1
4-Chloroaniline	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/04/24 14:39	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/04/24 14:39	1
4-Methylphenol	10	U	10	0.36	ug/L		10/31/24 13:59	11/04/24 14:39	1

Client Sample ID: RI MW-1
Lab Sample ID: 480-224998-3
Date Collected: 10/30/24 13:00
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	10	U	10	0.25	ug/L		10/31/24 13:59	11/04/24 14:39	1
4-Nitrophenol	10	U	10	1.5	ug/L		10/31/24 13:59	11/04/24 14:39	1
Acenaphthene	5.0	U	5.0	0.41	ug/L		10/31/24 13:59	11/04/24 14:39	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		10/31/24 13:59	11/04/24 14:39	1
Acetophenone	5.0	U	5.0	0.54	ug/L		10/31/24 13:59	11/04/24 14:39	1
Anthracene	5.0	U	5.0	0.28	ug/L		10/31/24 13:59	11/04/24 14:39	1
Atrazine	5.0	U	5.0	0.46	ug/L		10/31/24 13:59	11/04/24 14:39	1
Benzaldehyde	5.0	U	5.0	0.27	ug/L		10/31/24 13:59	11/04/24 14:39	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/04/24 14:39	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/04/24 14:39	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/31/24 13:59	11/04/24 14:39	1
Benzo(g,h,i)perylene	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/04/24 14:39	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/31/24 13:59	11/04/24 14:39	1
Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/04/24 14:39	1
Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/04/24 14:39	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	ug/L		10/31/24 13:59	11/04/24 14:39	1
Butyl benzyl phthalate	5.0	U	5.0	1.0	ug/L		10/31/24 13:59	11/04/24 14:39	1
Caprolactam	5.0	U	5.0	2.2	ug/L		10/31/24 13:59	11/04/24 14:39	1
Carbazole	5.0	U	5.0	0.30	ug/L		10/31/24 13:59	11/04/24 14:39	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/31/24 13:59	11/04/24 14:39	1
Di-n-butyl phthalate	5.0	U	5.0	0.31	ug/L		10/31/24 13:59	11/04/24 14:39	1
Di-n-octyl phthalate	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/04/24 14:39	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/31/24 13:59	11/04/24 14:39	1
Dibenzofuran	10	U	10	0.51	ug/L		10/31/24 13:59	11/04/24 14:39	1
Diethyl phthalate	5.0	U	5.0	0.22	ug/L		10/31/24 13:59	11/04/24 14:39	1
Dimethyl phthalate	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/04/24 14:39	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/04/24 14:39	1
Fluorene	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/04/24 14:39	1
Hexachlorobenzene	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/04/24 14:39	1
Hexachlorobutadiene	5.0	U	5.0	0.68	ug/L		10/31/24 13:59	11/04/24 14:39	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/04/24 14:39	1
Hexachloroethane	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/04/24 14:39	1
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/04/24 14:39	1
Isophorone	5.0	U	5.0	0.43	ug/L		10/31/24 13:59	11/04/24 14:39	1
N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	ug/L		10/31/24 13:59	11/04/24 14:39	1
N-Nitrosodiphenylamine	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/04/24 14:39	1
Naphthalene	5.0	U	5.0	0.76	ug/L		10/31/24 13:59	11/04/24 14:39	1
Nitrobenzene	5.0	U	5.0	0.29	ug/L		10/31/24 13:59	11/04/24 14:39	1
Pentachlorophenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/04/24 14:39	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		10/31/24 13:59	11/04/24 14:39	1
Phenol	5.0	U	5.0	0.39	ug/L		10/31/24 13:59	11/04/24 14:39	1
Pyrene	5.0	U	5.0	0.34	ug/L		10/31/24 13:59	11/04/24 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*67*		*25 - 144*	*10/31/24 13:59*	*11/04/24 14:39*	*1*
2-Fluorobiphenyl	*64*		*53 - 126*	*10/31/24 13:59*	*11/04/24 14:39*	*1*
2-Fluorophenol	*48*		*24 - 120*	*10/31/24 13:59*	*11/04/24 14:39*	*1*
Nitrobenzene-d5	*75*		*29 - 129*	*10/31/24 13:59*	*11/04/24 14:39*	*1*
p-Terphenyl-d14	*71*		*33 - 132*	*10/31/24 13:59*	*11/04/24 14:39*	*1*
Phenol-d5	*35*		*10 - 120*	*10/31/24 13:59*	*11/04/24 14:39*	*1*

Client Sample ID: RI MW-1
Date Collected: 10/30/24 13:00
Date Received: 10/30/24 15:55

Lab Sample ID: 480-224998-3
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.050	U	0.050	0.0092	ug/L		11/05/24 09:19	11/06/24 11:03	1
4,4'-DDE	**0.013**	**J**	0.050	0.012	ug/L		11/05/24 09:19	11/06/24 11:03	1
4,4'-DDT	**0.041**	**J B**	0.050	0.011	ug/L		11/05/24 09:19	11/06/24 11:03	1
Aldrin	0.050	U	0.050	0.0081	ug/L		11/05/24 09:19	11/06/24 11:03	1
alpha-BHC	0.050	U	0.050	0.0077	ug/L		11/05/24 09:19	11/06/24 11:03	1
Chlordane (.alpha.)	0.050	U	0.050	0.015	ug/L		11/05/24 09:19	11/06/24 11:03	1
beta-BHC	0.050	U	0.050	0.025	ug/L		11/05/24 09:19	11/06/24 11:03	1
delta-BHC	**0.011**	**J B**	0.050	0.010	ug/L		11/05/24 09:19	11/06/24 11:03	1
Dieldrin	0.050	U	0.050	0.0098	ug/L		11/05/24 09:19	11/06/24 11:03	1
Endosulfan I	0.050	U	0.050	0.011	ug/L		11/05/24 09:19	11/06/24 11:03	1
Endosulfan II	**0.014**	**J B**	0.050	0.012	ug/L		11/05/24 09:19	11/06/24 11:03	1
Endosulfan sulfate	0.050	U	0.050	0.016	ug/L		11/05/24 09:19	11/06/24 11:03	1
Endrin	0.050	U	0.050	0.014	ug/L		11/05/24 09:19	11/06/24 11:03	1
Lindane	0.050	U	0.050	0.0080	ug/L		11/05/24 09:19	11/06/24 11:03	1
Heptachlor	0.050	U	0.050	0.0085	ug/L		11/05/24 09:19	11/06/24 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*10 - 120*	*11/05/24 09:19*	*11/06/24 11:03*	*1*
DCB Decachlorobiphenyl	*50*		*10 - 120*	*11/05/24 09:19*	*11/06/24 11:03*	*1*
Tetrachloro-m-xylene	*79*		*10 - 120*	*11/05/24 09:19*	*11/06/24 11:03*	*1*
Tetrachloro-m-xylene	*75*		*10 - 120*	*11/05/24 09:19*	*11/06/24 11:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.18	ug/L		11/07/24 09:15	11/08/24 10:04	1
PCB-1221	0.50	U	0.50	0.18	ug/L		11/07/24 09:15	11/08/24 10:04	1
PCB-1232	0.50	U	0.50	0.18	ug/L		11/07/24 09:15	11/08/24 10:04	1
PCB-1242	0.50	U	0.50	0.18	ug/L		11/07/24 09:15	11/08/24 10:04	1
PCB-1248	0.50	U	0.50	0.18	ug/L		11/07/24 09:15	11/08/24 10:04	1
PCB-1254	0.50	U	0.50	0.25	ug/L		11/07/24 09:15	11/08/24 10:04	1
PCB-1260	0.50	U	0.50	0.25	ug/L		11/07/24 09:15	11/08/24 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*10 - 145*	*11/07/24 09:15*	*11/08/24 10:04*	*1*
Tetrachloro-m-xylene	*68*		*10 - 145*	*11/07/24 09:15*	*11/08/24 10:04*	*1*
DCB Decachlorobiphenyl	*46*		*10 - 123*	*11/07/24 09:15*	*11/08/24 10:04*	*1*
DCB Decachlorobiphenyl	*72*		*10 - 123*	*11/07/24 09:15*	*11/08/24 10:04*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	0.48	U	0.48	0.048	ug/L		11/04/24 09:29	11/05/24 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*85*		*21 - 143*	*11/04/24 09:29*	*11/05/24 20:00*	*1*
2,4-Dichlorophenylacetic acid	*80*		*21 - 143*	*11/04/24 09:29*	*11/05/24 20:00*	*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)	**17**		6.8	1.8	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluoropentanoic acid (PFPeA)	**37**		3.4	0.85	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorohexanoic acid (PFHxA)	**38**		1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1

Client Sample ID: RI MW-1
Lab Sample ID: 480-224998-3
Date Collected: 10/30/24 13:00
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	**27**		1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorooctanoic acid (PFOA)	**42**		1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorononanoic acid (PFNA)	**4.3**		1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorodecanoic acid (PFDA)	**2.9**		1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorododecanoic acid (PFDoA)	1.7	U	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorotridecanoic acid (PFTrDA)	1.7	U	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorotetradecanoic acid (PFTeDA)	1.7	U	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorobutanesulfonic acid (PFBS)	**4.8**		1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluoropentanesulfonic acid (PFPeS)	**1.3**	**J**	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorohexanesulfonic acid (PFHxS)	**4.4**		1.7	0.44	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluoroheptanesulfonic acid (PFHpS)	1.7	U	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorooctanesulfonic acid (PFOS)	**13**		1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorononanesulfonic acid (PFNS)	1.7	U	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorododecanesulfonic acid (PFDoS)	1.7	U	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	6.8	U	6.8	1.7	ng/L		11/04/24 07:45	11/04/24 20:35	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	6.8	U	6.8	1.7	ng/L		11/04/24 07:45	11/04/24 20:35	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.8	U	6.8	1.7	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorooctanesulfonamide (PFOSA)	**1.1**	**J I**	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.7	U	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.7	U	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.7	U	1.7	0.52	ng/L		11/04/24 07:45	11/04/24 20:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.7	U	1.7	0.44	ng/L		11/04/24 07:45	11/04/24 20:35	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	17	U	17	4.2	ng/L		11/04/24 07:45	11/04/24 20:35	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	17	U	17	4.2	ng/L		11/04/24 07:45	11/04/24 20:35	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.8	U	6.8	1.7	ng/L		11/04/24 07:45	11/04/24 20:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.8	U	6.8	1.7	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.4	U	3.4	0.85	ng/L		11/04/24 07:45	11/04/24 20:35	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.4	U	3.4	1.0	ng/L		11/04/24 07:45	11/04/24 20:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	6.8	U	6.8	1.7	ng/L		11/04/24 07:45	11/04/24 20:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.8	U	6.8	1.7	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.4	U	3.4	0.85	ng/L		11/04/24 07:45	11/04/24 20:35	1

Client Sample ID: RI MW-1
Lab Sample ID: 480-224998-3
Date Collected: 10/30/24 13:00
Matrix: Water
Date Received: 10/30/24 15:55

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)	8.5	U	8.5	2.1	ng/L		11/04/24 07:45	11/04/24 20:35	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	42	U	42	11	ng/L		11/04/24 07:45	11/04/24 20:35	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	42	U	42	13	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.42	ng/L		11/04/24 07:45	11/04/24 20:35	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.4	U	3.4	0.85	ng/L		11/04/24 07:45	11/04/24 20:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90.1*		*10 - 130*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C5 PFPeA	*85.9*		*35 - 150*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C5 PFHxA	*82.1*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C4 PFHpA	*90.3*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C8 PFOA	*88.4*		*60 - 140*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C9 PFNA	*86.7*		*55 - 140*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C6 PFDA	*73.4*		*50 - 140*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C7 PFUnA	*70.5*		*30 - 140*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C2 PFTeDA	*51.1*		*10 - 130*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C3 PFBS	*95.8*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C3 PFHxS	*84.9*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C8 PFOS	*76.5*		*45 - 140*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C8 PFOSA	*69.2*		*30 - 130*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
d3-NMeFOSAA	*67.6*		*45 - 200*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
d5-NEtFOSAA	*69.9*		*10 - 200*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
M2-4:2 FTS	*142*		*60 - 200*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
M2-6:2 FTS	*97.7*		*60 - 200*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
M2-8:2 FTS	*86.3*		*50 - 200*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C3 HFPO-DA	*83.3*		*25 - 160*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
d7-N-MeFOSE-M	*61.2*		*10 - 150*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
d9-N-EtFOSE-M	*55.4*		*10 - 150*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
d5-NEtPFOSA	*44.6*		*10 - 130*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
D3-NMeFOSA	*47.7*		*15 - 130*	*11/04/24 07:45*	*11/04/24 20:35*	*1*
13C2-PFDoDA	*66.2*		*10 - 150*	*11/04/24 07:45*	*11/04/24 20:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.20	U	0.20	0.060	mg/L		11/01/24 08:53	11/04/24 15:51	1
Antimony	0.020	U	0.020	0.0068	mg/L		11/01/24 08:53	11/04/24 15:51	1
Arsenic	0.015	U	0.015	0.0056	mg/L		11/01/24 08:53	11/04/24 15:51	1
Barium	**0.039**		0.0020	0.00070	mg/L		11/01/24 08:53	11/04/24 15:51	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		11/01/24 08:53	11/04/24 15:51	1
Cadmium	**0.0025**		0.0020	0.00050	mg/L		11/01/24 08:53	11/04/24 15:51	1
Calcium	**115**		0.50	0.10	mg/L		11/01/24 08:53	11/04/24 15:51	1
Chromium	**0.0027**	**J**	0.0040	0.0010	mg/L		11/01/24 08:53	11/04/24 15:51	1
Cobalt	**0.00076**	**J**	0.0040	0.00063	mg/L		11/01/24 08:53	11/04/24 15:51	1
Copper	**0.0018**	**J**	0.010	0.0016	mg/L		11/01/24 08:53	11/04/24 15:51	1
Iron	0.050	U	0.050	0.019	mg/L		11/01/24 08:53	11/04/24 15:51	1
Lead	0.010	U	0.010	0.0030	mg/L		11/01/24 08:53	11/04/24 15:51	1
Magnesium	**22.3**		0.20	0.043	mg/L		11/01/24 08:53	11/04/24 15:51	1

Client Sample ID: RI MW-1
Lab Sample ID: 480-224998-3
Date Collected: 10/30/24 13:00
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.012**	**B**	0.0030	0.00040	mg/L		11/01/24 08:53	11/04/24 15:51	1
Nickel	**0.0026**	**J**	0.010	0.0013	mg/L		11/01/24 08:53	11/04/24 15:51	1
Potassium	**22.8**		0.50	0.10	mg/L		11/01/24 08:53	11/04/24 15:51	1
Selenium	0.025	U	0.025	0.0087	mg/L		11/01/24 08:53	11/04/24 15:51	1
Silver	0.0060	U	0.0060	0.0017	mg/L		11/01/24 08:53	11/04/24 15:51	1
Sodium	**297**		1.0	0.32	mg/L		11/01/24 08:53	11/04/24 15:51	1
Thallium	0.020	U	0.020	0.010	mg/L		11/01/24 08:53	11/04/24 15:51	1
Vanadium	0.0050	U	0.0050	0.0015	mg/L		11/01/24 08:53	11/04/24 15:51	1
Zinc	**0.52**	**B**	0.010	0.0015	mg/L		11/01/24 08:53	11/04/24 15:51	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000042	mg/L		11/01/24 11:02	11/01/24 15:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.0057**	**J**	0.010	0.0041	mg/L			11/05/24 09:27	1
Chromium, hexavalent (SW846 7196A)	0.010	U	0.010	0.0050	mg/L			10/31/24 07:59	1

Client Sample ID: RI MW-2
Lab Sample ID: 480-224998-4
Date Collected: 10/30/24 14:00
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/01/24 15:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/01/24 15:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/01/24 15:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/01/24 15:18	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/01/24 15:18	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/01/24 15:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/01/24 15:18	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/01/24 15:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/01/24 15:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/01/24 15:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/01/24 15:18	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/01/24 15:18	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/01/24 15:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/01/24 15:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/01/24 15:18	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/01/24 15:18	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/01/24 15:18	1
4-Isopropyltoluene	1.0	U	1.0	0.31	ug/L			11/01/24 15:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/01/24 15:18	1
Acetone	10	U	10	3.0	ug/L			11/01/24 15:18	1
Benzene	1.0	U	1.0	0.41	ug/L			11/01/24 15:18	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/01/24 15:18	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/01/24 15:18	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/01/24 15:18	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/01/24 15:18	1

Client Sample ID: RI MW-2
Lab Sample ID: 480-224998-4
Date Collected: 10/30/24 14:00
Matrix: Water
Date Received: 10/30/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/01/24 15:18	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/01/24 15:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/01/24 15:18	1
Chloroform	**0.39**	**J**	1.0	0.34	ug/L			11/01/24 15:18	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/01/24 15:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/01/24 15:18	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/01/24 15:18	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/01/24 15:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/01/24 15:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/01/24 15:18	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/01/24 15:18	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/01/24 15:18	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/01/24 15:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/01/24 15:18	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/01/24 15:18	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/01/24 15:18	1
m,p-Xylene	2.0	U	2.0	0.66	ug/L			11/01/24 15:18	1
Naphthalene	1.0	U	1.0	0.43	ug/L			11/01/24 15:18	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			11/01/24 15:18	1
N-Propylbenzene	1.0	U	1.0	0.69	ug/L			11/01/24 15:18	1
o-Xylene	1.0	U	1.0	0.76	ug/L			11/01/24 15:18	1
sec-Butylbenzene	**0.81**	**J**	1.0	0.75	ug/L			11/01/24 15:18	1
Tetrachloroethene	**2.3**		1.0	0.36	ug/L			11/01/24 15:18	1
Toluene	1.0	U	1.0	0.51	ug/L			11/01/24 15:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/01/24 15:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/01/24 15:18	1
Trichloroethene	**1.1**		1.0	0.46	ug/L			11/01/24 15:18	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/01/24 15:18	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/01/24 15:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/01/24 15:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/01/24 15:18	1
Styrene	1.0	U	1.0	0.73	ug/L			11/01/24 15:18	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			11/01/24 15:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Bicyclo[3.3.1]nonane	*3.2*	*T J N*	*ug/L*		*8.49*	*280-65-9*		*11/01/24 15:18*	*1*
Unknown	*2.8*	*T J*	*ug/L*		*9.03*	*N/A*		*11/01/24 15:18*	*1*
Benzene, 1-methyl-2-(1-methylethyl)-	*2.5*	*T J N*	*ug/L*		*11.62*	*527-84-4*		*11/01/24 15:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*11/01/24 15:18*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*11/01/24 15:18*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/01/24 15:18*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*11/01/24 15:18*	*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	0.21	U	0.21	0.10	ug/L		10/31/24 13:53	11/01/24 14:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*44*		*15 - 110*	*10/31/24 13:53*	*11/01/24 14:09*	*1*

Client Sample ID: RI MW-2
Date Collected: 10/30/24 14:00
Date Received: 10/30/24 15:55

Lab Sample ID: 480-224998-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	5.0	U	5.0	0.65	ug/L		10/31/24 13:59	11/04/24 15:07	1
bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	ug/L		10/31/24 13:59	11/04/24 15:07	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.48	ug/L		10/31/24 13:59	11/04/24 15:07	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.61	ug/L		10/31/24 13:59	11/04/24 15:07	1
2,4-Dichlorophenol	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/04/24 15:07	1
2,4-Dimethylphenol	5.0	U	5.0	0.50	ug/L		10/31/24 13:59	11/04/24 15:07	1
2,4-Dinitrophenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/04/24 15:07	1
2,4-Dinitrotoluene	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/04/24 15:07	1
2,6-Dinitrotoluene	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/04/24 15:07	1
2-Chloronaphthalene	5.0	U	5.0	0.46	ug/L		10/31/24 13:59	11/04/24 15:07	1
2-Chlorophenol	5.0	U	5.0	0.53	ug/L		10/31/24 13:59	11/04/24 15:07	1
2-Methylnaphthalene	5.0	U	5.0	0.60	ug/L		10/31/24 13:59	11/04/24 15:07	1
2-Methylphenol	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/04/24 15:07	1
2-Nitroaniline	10	U	10	0.42	ug/L		10/31/24 13:59	11/04/24 15:07	1
2-Nitrophenol	5.0	U	5.0	0.48	ug/L		10/31/24 13:59	11/04/24 15:07	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/04/24 15:07	1
3-Nitroaniline	10	U	10	0.48	ug/L		10/31/24 13:59	11/04/24 15:07	1
4,6-Dinitro-2-methylphenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/04/24 15:07	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/04/24 15:07	1
4-Chloro-3-methylphenol	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/04/24 15:07	1
4-Chloroaniline	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/04/24 15:07	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/04/24 15:07	1
4-Methylphenol	10	U	10	0.36	ug/L		10/31/24 13:59	11/04/24 15:07	1
4-Nitroaniline	10	U	10	0.25	ug/L		10/31/24 13:59	11/04/24 15:07	1
4-Nitrophenol	10	U	10	1.5	ug/L		10/31/24 13:59	11/04/24 15:07	1
Acenaphthene	5.0	U	5.0	0.41	ug/L		10/31/24 13:59	11/04/24 15:07	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		10/31/24 13:59	11/04/24 15:07	1
Acetophenone	5.0	U	5.0	0.54	ug/L		10/31/24 13:59	11/04/24 15:07	1
Anthracene	5.0	U	5.0	0.28	ug/L		10/31/24 13:59	11/04/24 15:07	1
Atrazine	5.0	U	5.0	0.46	ug/L		10/31/24 13:59	11/04/24 15:07	1
Benzaldehyde	5.0	U	5.0	0.27	ug/L		10/31/24 13:59	11/04/24 15:07	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/04/24 15:07	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/04/24 15:07	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/31/24 13:59	11/04/24 15:07	1
Benzo(g,h,i)perylene	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/04/24 15:07	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/31/24 13:59	11/04/24 15:07	1
Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/04/24 15:07	1
Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/04/24 15:07	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	ug/L		10/31/24 13:59	11/04/24 15:07	1
Butyl benzyl phthalate	5.0	U	5.0	1.0	ug/L		10/31/24 13:59	11/04/24 15:07	1
Caprolactam	5.0	U	5.0	2.2	ug/L		10/31/24 13:59	11/04/24 15:07	1
Carbazole	5.0	U	5.0	0.30	ug/L		10/31/24 13:59	11/04/24 15:07	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/31/24 13:59	11/04/24 15:07	1
Di-n-butyl phthalate	5.0	U	5.0	0.31	ug/L		10/31/24 13:59	11/04/24 15:07	1
Di-n-octyl phthalate	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/04/24 15:07	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/31/24 13:59	11/04/24 15:07	1
Dibenzofuran	10	U	10	0.51	ug/L		10/31/24 13:59	11/04/24 15:07	1
Diethyl phthalate	5.0	U	5.0	0.22	ug/L		10/31/24 13:59	11/04/24 15:07	1
Dimethyl phthalate	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/04/24 15:07	1

Client Sample ID: RI MW-2
Date Collected: 10/30/24 14:00
Date Received: 10/30/24 15:55

Lab Sample ID: 480-224998-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/04/24 15:07	1
Fluorene	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/04/24 15:07	1
Hexachlorobenzene	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/04/24 15:07	1
Hexachlorobutadiene	5.0	U	5.0	0.68	ug/L		10/31/24 13:59	11/04/24 15:07	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/04/24 15:07	1
Hexachloroethane	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/04/24 15:07	1
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/04/24 15:07	1
Isophorone	5.0	U	5.0	0.43	ug/L		10/31/24 13:59	11/04/24 15:07	1
N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	ug/L		10/31/24 13:59	11/04/24 15:07	1
N-Nitrosodiphenylamine	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/04/24 15:07	1
Naphthalene	5.0	U	5.0	0.76	ug/L		10/31/24 13:59	11/04/24 15:07	1
Nitrobenzene	5.0	U	5.0	0.29	ug/L		10/31/24 13:59	11/04/24 15:07	1
Pentachlorophenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/04/24 15:07	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		10/31/24 13:59	11/04/24 15:07	1
Phenol	5.0	U	5.0	0.39	ug/L		10/31/24 13:59	11/04/24 15:07	1
Pyrene	5.0	U	5.0	0.34	ug/L		10/31/24 13:59	11/04/24 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*25 - 144*	*10/31/24 13:59*	*11/04/24 15:07*	*1*
2-Fluorobiphenyl	*76*		*53 - 126*	*10/31/24 13:59*	*11/04/24 15:07*	*1*
2-Fluorophenol	*54*		*24 - 120*	*10/31/24 13:59*	*11/04/24 15:07*	*1*
Nitrobenzene-d5	*85*		*29 - 129*	*10/31/24 13:59*	*11/04/24 15:07*	*1*
p-Terphenyl-d14	*79*		*33 - 132*	*10/31/24 13:59*	*11/04/24 15:07*	*1*
Phenol-d5	*41*		*10 - 120*	*10/31/24 13:59*	*11/04/24 15:07*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.057	U	0.057	0.010	ug/L		11/05/24 09:19	11/06/24 11:23	1
4,4'-DDE	0.057	U	0.057	0.013	ug/L		11/05/24 09:19	11/06/24 11:23	1
4,4'-DDT	**0.018**	**J B**	0.057	0.013	ug/L		11/05/24 09:19	11/06/24 11:23	1
Aldrin	0.057	U	0.057	0.0092	ug/L		11/05/24 09:19	11/06/24 11:23	1
alpha-BHC	0.057	U	0.057	0.0088	ug/L		11/05/24 09:19	11/06/24 11:23	1
Chlordane (.alpha.)	0.057	U	0.057	0.017	ug/L		11/05/24 09:19	11/06/24 11:23	1
beta-BHC	0.057	U	0.057	0.028	ug/L		11/05/24 09:19	11/06/24 11:23	1
delta-BHC	0.057	U	0.057	0.011	ug/L		11/05/24 09:19	11/06/24 11:23	1
Dieldrin	0.057	U	0.057	0.011	ug/L		11/05/24 09:19	11/06/24 11:23	1
Endosulfan I	0.057	U	0.057	0.013	ug/L		11/05/24 09:19	11/06/24 11:23	1
Endosulfan II	**0.026**	**J B**	0.057	0.014	ug/L		11/05/24 09:19	11/06/24 11:23	1
Endosulfan sulfate	0.057	U	0.057	0.018	ug/L		11/05/24 09:19	11/06/24 11:23	1
Endrin	0.057	U	0.057	0.016	ug/L		11/05/24 09:19	11/06/24 11:23	1
Lindane	**0.010**	**J B**	0.057	0.0091	ug/L		11/05/24 09:19	11/06/24 11:23	1
Heptachlor	0.057	U	0.057	0.0097	ug/L		11/05/24 09:19	11/06/24 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*42*		*10 - 120*	*11/05/24 09:19*	*11/06/24 11:23*	*1*
DCB Decachlorobiphenyl	*35*		*10 - 120*	*11/05/24 09:19*	*11/06/24 11:23*	*1*
Tetrachloro-m-xylene	*61*		*10 - 120*	*11/05/24 09:19*	*11/06/24 11:23*	*1*
Tetrachloro-m-xylene	*76*		*10 - 120*	*11/05/24 09:19*	*11/06/24 11:23*	*1*

Client Sample ID: RI MW-2
Date Collected: 10/30/24 14:00
Date Received: 10/30/24 15:55

Lab Sample ID: 480-224998-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.52	U	0.52	0.18	ug/L		11/07/24 09:15	11/07/24 16:51	1
PCB-1221	0.52	U	0.52	0.18	ug/L		11/07/24 09:15	11/07/24 16:51	1
PCB-1232	0.52	U	0.52	0.18	ug/L		11/07/24 09:15	11/07/24 16:51	1
PCB-1242	0.52	U	0.52	0.18	ug/L		11/07/24 09:15	11/07/24 16:51	1
PCB-1248	0.52	U	0.52	0.18	ug/L		11/07/24 09:15	11/07/24 16:51	1
PCB-1254	0.52	U	0.52	0.26	ug/L		11/07/24 09:15	11/07/24 16:51	1
PCB-1260	0.52	U	0.52	0.26	ug/L		11/07/24 09:15	11/07/24 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*10 - 145*	*11/07/24 09:15*	*11/07/24 16:51*	*1*
Tetrachloro-m-xylene	*63*		*10 - 145*	*11/07/24 09:15*	*11/07/24 16:51*	*1*
DCB Decachlorobiphenyl	*43*		*10 - 123*	*11/07/24 09:15*	*11/07/24 16:51*	*1*
DCB Decachlorobiphenyl	*67*		*10 - 123*	*11/07/24 09:15*	*11/07/24 16:51*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	0.51	U	0.51	0.051	ug/L		11/04/24 09:29	11/05/24 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*81*		*21 - 143*	*11/04/24 09:29*	*11/05/24 20:19*	*1*
2,4-Dichlorophenylacetic acid	*79*		*21 - 143*	*11/04/24 09:29*	*11/05/24 20:19*	*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)	**11**		9.6	2.6	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluoropentanoic acid (PFPeA)	**12**		4.8	1.2	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorohexanoic acid (PFHxA)	**16**		2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluoroheptanoic acid (PFHpA)	**8.9**		2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorooctanoic acid (PFOA)	**21**		2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorononanoic acid (PFNA)	**3.3**		2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorodecanoic acid (PFDA)	**2.8**		2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluoroundecanoic acid (PFUnA)	2.4	U	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorododecanoic acid (PFDoA)	2.4	U	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorotridecanoic acid (PFTrDA)	2.4	U	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorotetradecanoic acid (PFTeDA)	2.4	U	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorobutanesulfonic acid (PFBS)	**4.4**		2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluoropentanesulfonic acid (PFPeS)	**0.74**	**J**	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorohexanesulfonic acid (PFHxS)	**2.1**	**J**	2.4	0.62	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluoroheptanesulfonic acid (PFHpS)	2.4	U	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorooctanesulfonic acid (PFOS)	**8.8**		2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorononanesulfonic acid (PFNS)	2.4	U	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorododecanesulfonic acid (PFDoS)	2.4	U	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.6	U	9.6	2.4	ng/L		11/04/24 07:45	11/04/24 20:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.6	U	9.6	2.4	ng/L		11/04/24 07:45	11/04/24 20:51	1

Client Sample ID: RI MW-2
Lab Sample ID: 480-224998-4
Date Collected: 10/30/24 14:00
Matrix: Water
Date Received: 10/30/24 15:55

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)	9.6	U	9.6	2.4	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorooctanesulfonamide (PFOSA)	2.4	U	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.4	U	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.4	U	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.4	U	2.4	0.74	ng/L		11/04/24 07:45	11/04/24 20:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.4	U	2.4	0.63	ng/L		11/04/24 07:45	11/04/24 20:51	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	24	U	24	6.0	ng/L		11/04/24 07:45	11/04/24 20:51	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	24	U	24	6.0	ng/L		11/04/24 07:45	11/04/24 20:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	9.6	U	9.6	2.4	ng/L		11/04/24 07:45	11/04/24 20:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.6	U	9.6	2.4	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.8	U	4.8	1.2	ng/L		11/04/24 07:45	11/04/24 20:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.8	U	4.8	1.5	ng/L		11/04/24 07:45	11/04/24 20:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.6	U	9.6	2.4	ng/L		11/04/24 07:45	11/04/24 20:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	9.6	U	9.6	2.4	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.8	U	4.8	1.2	ng/L		11/04/24 07:45	11/04/24 20:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	12	U	12	3.0	ng/L		11/04/24 07:45	11/04/24 20:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	60	U	60	15	ng/L		11/04/24 07:45	11/04/24 20:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	60	U	60	18	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluorodecanesulfonic acid (PFDS)	2.4	U	2.4	0.60	ng/L		11/04/24 07:45	11/04/24 20:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.8	U	4.8	1.2	ng/L		11/04/24 07:45	11/04/24 20:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*84.4*		*10 - 130*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C5 PFPeA	*80.1*		*35 - 150*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C5 PFHxA	*81.3*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C4 PFHpA	*86.5*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C8 PFOA	*86.3*		*60 - 140*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C9 PFNA	*84.1*		*55 - 140*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C6 PFDA	*73.2*		*50 - 140*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C7 PFUnA	*69.5*		*30 - 140*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C2 PFTeDA	*52.1*		*10 - 130*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C3 PFBS	*93.6*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C3 PFHxS	*81.3*		*55 - 150*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C8 PFOS	*70.0*		*45 - 140*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C8 PFOSA	*67.9*		*30 - 130*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
d3-NMeFOSAA	*67.4*		*45 - 200*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
d5-NEtFOSAA	*62.6*		*10 - 200*	*11/04/24 07:45*	*11/04/24 20:51*	*1*

Client Sample ID: RI MW-2
Date Collected: 10/30/24 14:00
Date Received: 10/30/24 15:55

Lab Sample ID: 480-224998-4
Matrix: Water

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	*111*		*60 - 200*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
M2-6:2 FTS	*95.3*		*60 - 200*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
M2-8:2 FTS	*89.4*		*50 - 200*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C3 HFPO-DA	*80.8*		*25 - 160*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
d7-N-MeFOSE-M	*62.9*		*10 - 150*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
d9-N-EtFOSE-M	*57.3*		*10 - 150*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
d5-NEtPFOSA	*45.4*		*10 - 130*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
D3-NMeFOSA	*46.6*		*15 - 130*	*11/04/24 07:45*	*11/04/24 20:51*	*1*
13C2-PFDoDA	*63.4*		*10 - 150*	*11/04/24 07:45*	*11/04/24 20:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.20	U	0.20	0.060	mg/L		11/01/24 08:53	11/04/24 15:53	1
Antimony	0.020	U	0.020	0.0068	mg/L		11/01/24 08:53	11/04/24 15:53	1
Arsenic	0.015	U	0.015	0.0056	mg/L		11/01/24 08:53	11/04/24 15:53	1
Barium	**0.037**		0.0020	0.00070	mg/L		11/01/24 08:53	11/04/24 15:53	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		11/01/24 08:53	11/04/24 15:53	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		11/01/24 08:53	11/04/24 15:53	1
Calcium	**89.8**		0.50	0.10	mg/L		11/01/24 08:53	11/04/24 15:53	1
Chromium	0.0040	U	0.0040	0.0010	mg/L		11/01/24 08:53	11/04/24 15:53	1
Cobalt	**0.00075**	**J**	0.0040	0.00063	mg/L		11/01/24 08:53	11/04/24 15:53	1
Copper	0.010	U	0.010	0.0016	mg/L		11/01/24 08:53	11/04/24 15:53	1
Iron	0.050	U	0.050	0.019	mg/L		11/01/24 08:53	11/04/24 15:53	1
Lead	0.010	U	0.010	0.0030	mg/L		11/01/24 08:53	11/04/24 15:53	1
Magnesium	**20.3**		0.20	0.043	mg/L		11/01/24 08:53	11/04/24 15:53	1
Manganese	**0.053**	**B**	0.0030	0.00040	mg/L		11/01/24 08:53	11/04/24 15:53	1
Nickel	**0.0034**	**J**	0.010	0.0013	mg/L		11/01/24 08:53	11/04/24 15:53	1
Potassium	**18.2**		0.50	0.10	mg/L		11/01/24 08:53	11/04/24 15:53	1
Selenium	0.025	U	0.025	0.0087	mg/L		11/01/24 08:53	11/04/24 15:53	1
Silver	0.0060	U	0.0060	0.0017	mg/L		11/01/24 08:53	11/04/24 15:53	1
Sodium	**345**		1.0	0.32	mg/L		11/01/24 08:53	11/04/24 15:53	1
Thallium	0.020	U	0.020	0.010	mg/L		11/01/24 08:53	11/04/24 15:53	1
Vanadium	0.0050	U	0.0050	0.0015	mg/L		11/01/24 08:53	11/04/24 15:53	1
Zinc	**0.34**	**B**	0.010	0.0015	mg/L		11/01/24 08:53	11/04/24 15:53	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000042	mg/L		11/01/24 11:02	11/01/24 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	0.010	U	0.010	0.0041	mg/L			11/05/24 09:31	1
Chromium, hexavalent (SW846 7196A)	0.010	U	0.010	0.0050	mg/L			10/31/24 07:59	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

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)
480-224998-1	RI MW-3	117	114	97	118
480-224998-1 MS	RI MW-3	116	114	101	119
480-224998-1 MSD	RI MW-3	115	111	102	120
480-224998-2	RI MW-3 DUP	100	95	96	97
480-224998-3	RI MW-1	100	92	99	96
480-224998-4	RI MW-2	101	88	95	98
LCS 480-730795/6	Lab Control Sample	97	90	101	96
LCS 480-730914/6	Lab Control Sample	108	112	98	110
MB 480-730795/8	Method Blank	101	91	102	92
MB 480-730914/8	Method Blank	109	110	98	111

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)
480-224998-1	RI MW-3	65	83	62	94	75	45
480-224998-1 MS	RI MW-3	89	84	65	94	71	52
480-224998-1 MSD	RI MW-3	88	84	67	95	81	54
480-224998-2	RI MW-3 DUP	74	82	57	85	83	43
480-224998-3	RI MW-1	67	64	48	75	71	35
480-224998-4	RI MW-2	73	76	54	85	79	41
LCS 480-730680/2-A	Lab Control Sample	91	82	64	80	91	54
MB 480-730680/1-A	Method Blank	61	71	56	82	78	42

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: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-120)	(10-120)	(10-120)	(10-120)
480-224998-1	RI MW-3	53	47	68	121 S1+
480-224998-1 MS	RI MW-3	59	56	69	64
480-224998-1 MSD	RI MW-3	57	54	75	98
480-224998-2	RI MW-3 DUP	66	59	72	106
480-224998-3	RI MW-1	56	50	79	75

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-120)	(10-120)	(10-120)	(10-120)
480-224998-4	RI MW-2	42	35	61	76
LCS 480-731202/2-A	Lab Control Sample	45	45	68	63
MB 480-731202/1-A	Method Blank	61	55	68	63

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)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-123)	(10-123)
480-224998-1	RI MW-3	66	68	48	73
480-224998-1 MS	RI MW-3	64	71	45	70
480-224998-1 MSD	RI MW-3	62	63	41	61
480-224998-2	RI MW-3 DUP	69	74	45	70
480-224998-3	RI MW-1	66	68	46	72
480-224998-4	RI MW-2	56	63	43	67
LCS 480-731490/2-A	Lab Control Sample	63	69	42	65
MB 480-731490/1-A	Method Blank	59	66	47	72

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(21-143)	(21-143)
480-224998-1	RI MW-3	74	75
480-224998-1 MS	RI MW-3	82	76
480-224998-1 MSD	RI MW-3	99	72
480-224998-2	RI MW-3 DUP	81	78
480-224998-3	RI MW-1	85	80
480-224998-4	RI MW-2	81	79
LCS 480-731060/2-A	Lab Control Sample	87	80
MB 480-731060/1-A	Method Blank	76	78

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

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)
480-224998-1	RI MW-3	41
480-224998-1 MS	RI MW-3	41
480-224998-1 MSD	RI MW-3	42
480-224998-2	RI MW-3 DUP	43
480-224998-3	RI MW-1	39
480-224998-4	RI MW-2	44
LCS 480-730679/2-A	Lab Control Sample	43
MB 480-730679/1-A	Method Blank	39

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)
480-224998-1	RI MW-3	88.4	81.5	85.3	87.7	88.9	84.2	82.9	75.6
480-224998-1 MS	RI MW-3	88.2	79.7	80.8	83.1	85.0	83.5	79.5	82.5
480-224998-1 MSD	RI MW-3	90.0	80.0	80.2	86.9	87.1	88.0	80.5	78.3
480-224998-2	RI MW-3 DUP	89.3	83.3	85.3	90.0	86.6	88.2	82.2	77.0
480-224998-3	RI MW-1	90.1	85.9	82.1	90.3	88.4	86.7	73.4	70.5
480-224998-4	RI MW-2	84.4	80.1	81.3	86.5	86.3	84.1	73.2	69.5
MB 240-633735/1-A	Method Blank	85.6	81.5	83.1	90.7	87.5	83.3	72.4	70.9

		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)
480-224998-1	RI MW-3	62.3	96.9	81.4	81.8	75.8	74.5	76.0	121
480-224998-1 MS	RI MW-3	70.3	94.2	80.1	80.9	75.7	79.1	75.9	113
480-224998-1 MSD	RI MW-3	66.8	95.5	84.6	80.5	71.5	76.6	75.1	118
480-224998-2	RI MW-3 DUP	65.6	91.8	82.3	79.1	71.2	69.9	68.9	121
480-224998-3	RI MW-1	51.1	95.8	84.9	76.5	69.2	67.6	69.9	142
480-224998-4	RI MW-2	52.1	93.6	81.3	70.0	67.9	67.4	62.6	111
MB 240-633735/1-A	Method Blank	46.9	89.6	82.0	80.4	75.0	71.6	91.0	101

		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)
480-224998-1	RI MW-3	100	92.8	76.9	69.2	62.7	52.0	53.8	72.7
480-224998-1 MS	RI MW-3	93.7	90.9	76.4	73.3	67.2	57.6	55.9	78.0
480-224998-1 MSD	RI MW-3	93.7	92.4	77.0	68.9	63.6	51.8	53.2	75.5
480-224998-2	RI MW-3 DUP	100	91.4	78.1	63.2	58.1	47.9	49.4	75.1
480-224998-3	RI MW-1	97.7	86.3	83.3	61.2	55.4	44.6	47.7	66.2
480-224998-4	RI MW-2	95.3	89.4	80.8	62.9	57.3	45.4	46.6	63.4
MB 240-633735/1-A	Method Blank	85.9	86.1	82.2	70.0	64.5	47.3	45.9	68.2

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

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(10-130)	(40-150)	(40-150)	(40-150)	(30-140)	(30-140)	(20-140)	(20-140)
LCS 240-633735/3-A	Lab Control Sample	79.3	75.3	78.9	83.9	80.2	77.8	75.6	70.2
LLCS 240-633735/2-A	Lab Control Sample	83.3	84.8	85.2	90.1	85.2	83.9	79.9	80.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFTDA	C3PFBS	C3PFHS	C8PFOS	PFOSA	d3NMFOS	d5NEFOS	M242FTS
Lab Sample ID	Client Sample ID	(10-130)	(25-150)	(25-150)	(20-140)	(10-130)	(10-200)	(10-200)	(25-200)
LCS 240-633735/3-A	Lab Control Sample	58.0	85.0	77.9	70.0	67.5	68.1	77.3	91.3
LLCS 240-633735/2-A	Lab Control Sample	66.4	82.9	77.8	75.6	69.6	69.2	109	99.4

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS	M282FTS	HFPODA	NMFM	NEFM	d5NPFSA	d3NMFSA	PFDoDA
Lab Sample ID	Client Sample ID	(25-200)	(25-200)	(25-160)	(10-150)	(10-150)	(10-130)	(10-130)	(10-150)
LCS 240-633735/3-A	Lab Control Sample	91.3	86.2	77.0	65.8	61.5	48.1	48.2	70.4
LLCS 240-633735/2-A	Lab Control Sample	88.9	89.2	84.9	66.9	63.1	51.6	52.4	73.2

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

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

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 480-730795/8
Matrix: Water
Analysis Batch: 730795

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	1.0	U	1.0	0.82	ug/L			11/01/24 12:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/01/24 12:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/01/24 12:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/01/24 12:00	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/01/24 12:00	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/01/24 12:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/01/24 12:00	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/01/24 12:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/01/24 12:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/01/24 12:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/01/24 12:00	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/01/24 12:00	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/01/24 12:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/01/24 12:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/01/24 12:00	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/01/24 12:00	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/01/24 12:00	1
4-Isopropyltoluene	1.0	U	1.0	0.31	ug/L			11/01/24 12:00	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/01/24 12:00	1
Acetone	10	U	10	3.0	ug/L			11/01/24 12:00	1
Benzene	1.0	U	1.0	0.41	ug/L			11/01/24 12:00	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/01/24 12:00	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/01/24 12:00	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/01/24 12:00	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/01/24 12:00	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/01/24 12:00	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/01/24 12:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/01/24 12:00	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/01/24 12:00	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/01/24 12:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/01/24 12:00	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/01/24 12:00	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/01/24 12:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/01/24 12:00	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/01/24 12:00	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/01/24 12:00	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/01/24 12:00	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/01/24 12:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/01/24 12:00	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/01/24 12:00	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/01/24 12:00	1
m,p-Xylene	2.0	U	2.0	0.66	ug/L			11/01/24 12:00	1
Naphthalene	1.0	U	1.0	0.43	ug/L			11/01/24 12:00	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			11/01/24 12:00	1
N-Propylbenzene	1.0	U	1.0	0.69	ug/L			11/01/24 12:00	1
o-Xylene	1.0	U	1.0	0.76	ug/L			11/01/24 12:00	1
sec-Butylbenzene	1.0	U	1.0	0.75	ug/L			11/01/24 12:00	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/01/24 12:00	1

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

Lab Sample ID: MB 480-730795/8
Matrix: Water
Analysis Batch: 730795

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.51	ug/L			11/01/24 12:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/01/24 12:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/01/24 12:00	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/01/24 12:00	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/01/24 12:00	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/01/24 12:00	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/01/24 12:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/01/24 12:00	1
Styrene	1.0	U	1.0	0.73	ug/L			11/01/24 12:00	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			11/01/24 12:00	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*		*11/01/24 12:00*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*11/01/24 12:00*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*11/01/24 12:00*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/01/24 12:00*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*11/01/24 12:00*	*1*

Lab Sample ID: LCS 480-730795/6
Matrix: Water
Analysis Batch: 730795

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	26.8		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.5		ug/L		110	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.4		ug/L		113	61 - 148
1,1,2-Trichloroethane	25.0	25.6		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	26.8		ug/L		107	77 - 120
1,1-Dichloroethene	25.0	25.6		ug/L		103	66 - 127
1,2,4-Trichlorobenzene	25.0	27.9		ug/L		112	79 - 122
1,2,4-Trimethylbenzene	25.0	28.2		ug/L		113	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	56 - 134
1,2-Dichlorobenzene	25.0	27.3		ug/L		109	80 - 124
1,2-Dichloroethane	25.0	25.4		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	25.8		ug/L		103	76 - 120
1,3,5-Trimethylbenzene	25.0	28.3		ug/L		113	77 - 121
1,3-Dichlorobenzene	25.0	27.7		ug/L		111	77 - 120
1,4-Dichlorobenzene	25.0	26.6		ug/L		107	80 - 120
2-Butanone (MEK)	125	140		ug/L		112	57 - 140
2-Hexanone	125	155		ug/L		124	65 - 127
4-Isopropyltoluene	25.0	29.5		ug/L		118	73 - 120
4-Methyl-2-pentanone (MIBK)	125	153		ug/L		123	71 - 125
Acetone	125	145		ug/L		116	56 - 142
Benzene	25.0	25.1		ug/L		101	71 - 124
Bromoform	25.0	25.5		ug/L		102	61 - 132

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

Lab Sample ID: LCS 480-730795/6
Matrix: Water
Analysis Batch: 730795

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	23.4		ug/L		94	55 - 144
Carbon disulfide	25.0	26.9		ug/L		107	59 - 134
Carbon tetrachloride	25.0	27.6		ug/L		110	72 - 134
Chlorobenzene	25.0	25.5		ug/L		102	80 - 120
Dibromochloromethane	25.0	27.9		ug/L		112	75 - 125
Chloroethane	25.0	24.7		ug/L		99	69 - 136
Chloroform	25.0	23.9		ug/L		96	73 - 127
Chloromethane	25.0	28.6		ug/L		115	68 - 124
cis-1,2-Dichloroethene	25.0	26.1		ug/L		104	74 - 124
Cyclohexane	25.0	30.1		ug/L		120	59 - 135
Bromodichloromethane	25.0	26.1		ug/L		104	80 - 122
Dichlorodifluoromethane	25.0	29.4		ug/L		118	59 - 135
Ethylbenzene	25.0	26.2		ug/L		105	77 - 123
1,2-Dibromoethane	25.0	25.6		ug/L		103	77 - 120
Isopropylbenzene	25.0	29.1		ug/L		116	77 - 122
Methyl acetate	50.0	54.0		ug/L		108	74 - 133
Methyl tert-butyl ether	25.0	24.7		ug/L		99	77 - 120
Methylcyclohexane	25.0	28.4		ug/L		113	68 - 134
Methylene Chloride	25.0	25.4		ug/L		102	75 - 124
m,p-Xylene	25.0	25.3		ug/L		101	76 - 122
Naphthalene	25.0	26.7		ug/L		107	66 - 125
n-Butylbenzene	25.0	30.7		ug/L		123	71 - 128
N-Propylbenzene	25.0	28.3		ug/L		113	75 - 127
o-Xylene	25.0	26.3		ug/L		105	76 - 122
sec-Butylbenzene	25.0	29.5		ug/L		118	74 - 127
Tetrachloroethene	25.0	28.2		ug/L		113	74 - 122
Toluene	25.0	25.4		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	27.2		ug/L		109	80 - 120
Trichloroethene	25.0	25.1		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	28.8		ug/L		115	62 - 150
Vinyl chloride	25.0	26.8		ug/L		107	65 - 133
cis-1,3-Dichloropropene	25.0	26.9		ug/L		108	74 - 124
Styrene	25.0	25.2		ug/L		101	80 - 120
tert-Butylbenzene	25.0	28.2		ug/L		113	75 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*75 - 123*

Lab Sample ID: MB 480-730914/8
Matrix: Water
Analysis Batch: 730914

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	1.0	U	1.0	0.82	ug/L			11/02/24 11:54	1

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

Lab Sample ID: MB 480-730914/8
Matrix: Water
Analysis Batch: 730914

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/02/24 11:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/02/24 11:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/02/24 11:54	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/02/24 11:54	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/02/24 11:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/02/24 11:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/02/24 11:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/02/24 11:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/02/24 11:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/02/24 11:54	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/02/24 11:54	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/02/24 11:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/02/24 11:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/02/24 11:54	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/02/24 11:54	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/02/24 11:54	1
4-Isopropyltoluene	1.0	U	1.0	0.31	ug/L			11/02/24 11:54	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/02/24 11:54	1
Acetone	10	U	10	3.0	ug/L			11/02/24 11:54	1
Benzene	1.0	U	1.0	0.41	ug/L			11/02/24 11:54	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/02/24 11:54	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/02/24 11:54	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/02/24 11:54	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/02/24 11:54	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/02/24 11:54	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/02/24 11:54	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/02/24 11:54	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/02/24 11:54	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/02/24 11:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/02/24 11:54	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/02/24 11:54	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/02/24 11:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/02/24 11:54	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/02/24 11:54	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/02/24 11:54	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/02/24 11:54	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/02/24 11:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/02/24 11:54	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/02/24 11:54	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/02/24 11:54	1
m,p-Xylene	2.0	U	2.0	0.66	ug/L			11/02/24 11:54	1
Naphthalene	1.0	U	1.0	0.43	ug/L			11/02/24 11:54	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			11/02/24 11:54	1
N-Propylbenzene	1.0	U	1.0	0.69	ug/L			11/02/24 11:54	1
o-Xylene	1.0	U	1.0	0.76	ug/L			11/02/24 11:54	1
sec-Butylbenzene	1.0	U	1.0	0.75	ug/L			11/02/24 11:54	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/02/24 11:54	1
Toluene	1.0	U	1.0	0.51	ug/L			11/02/24 11:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/02/24 11:54	1

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

Lab Sample ID: MB 480-730914/8
Matrix: Water
Analysis Batch: 730914

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/02/24 11:54	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/02/24 11:54	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/02/24 11:54	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/02/24 11:54	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/02/24 11:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/02/24 11:54	1
Styrene	1.0	U	1.0	0.73	ug/L			11/02/24 11:54	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			11/02/24 11:54	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*11/02/24 11:54*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*11/02/24 11:54*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*11/02/24 11:54*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/02/24 11:54*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*11/02/24 11:54*	*1*

Lab Sample ID: LCS 480-730914/6
Matrix: Water
Analysis Batch: 730914

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	30.5		ug/L		122	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.7		ug/L		83	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.7		ug/L		107	61 - 148
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	76 - 122
1,1-Dichloroethane	25.0	23.5		ug/L		94	77 - 120
1,1-Dichloroethene	25.0	25.3		ug/L		101	66 - 127
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		105	79 - 122
1,2,4-Trimethylbenzene	25.0	24.2		ug/L		97	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	24.6		ug/L		98	56 - 134
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	26.8		ug/L		107	75 - 120
1,2-Dichloropropane	25.0	22.1		ug/L		88	76 - 120
1,3,5-Trimethylbenzene	25.0	24.8		ug/L		99	77 - 121
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 120
2-Butanone (MEK)	125	117		ug/L		93	57 - 140
2-Hexanone	125	110		ug/L		88	65 - 127
4-Isopropyltoluene	25.0	25.1		ug/L		100	73 - 120
4-Methyl-2-pentanone (MIBK)	125	105		ug/L		84	71 - 125
Acetone	125	131		ug/L		105	56 - 142
Benzene	25.0	23.4		ug/L		94	71 - 124
Bromoform	25.0	28.4		ug/L		114	61 - 132
Bromomethane	25.0	27.3		ug/L		109	55 - 144
Carbon disulfide	25.0	22.2		ug/L		89	59 - 134

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

Lab Sample ID: LCS 480-730914/6
Matrix: Water
Analysis Batch: 730914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	25.0	31.2		ug/L		125	72 - 134
Chlorobenzene	25.0	24.4		ug/L		97	80 - 120
Dibromochloromethane	25.0	27.1		ug/L		108	75 - 125
Chloroethane	25.0	24.1		ug/L		96	69 - 136
Chloroform	25.0	25.7		ug/L		103	73 - 127
Chloromethane	25.0	20.2		ug/L		81	68 - 124
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	74 - 124
Cyclohexane	25.0	23.0		ug/L		92	59 - 135
Bromodichloromethane	25.0	27.8		ug/L		111	80 - 122
Dichlorodifluoromethane	25.0	22.8		ug/L		91	59 - 135
Ethylbenzene	25.0	25.6		ug/L		102	77 - 123
1,2-Dibromoethane	25.0	24.9		ug/L		100	77 - 120
Isopropylbenzene	25.0	24.7		ug/L		99	77 - 122
Methyl acetate	50.0	40.9		ug/L		82	74 - 133
Methyl tert-butyl ether	25.0	24.9		ug/L		99	77 - 120
Methylcyclohexane	25.0	25.8		ug/L		103	68 - 134
Methylene Chloride	25.0	23.5		ug/L		94	75 - 124
m,p-Xylene	25.0	25.8		ug/L		103	76 - 122
Naphthalene	25.0	25.1		ug/L		101	66 - 125
n-Butylbenzene	25.0	24.1		ug/L		96	71 - 128
N-Propylbenzene	25.0	23.2		ug/L		93	75 - 127
o-Xylene	25.0	25.9		ug/L		104	76 - 122
sec-Butylbenzene	25.0	24.1		ug/L		96	74 - 127
Tetrachloroethene	25.0	26.9		ug/L		107	74 - 122
Toluene	25.0	22.7		ug/L		91	80 - 122
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	73 - 127
trans-1,3-Dichloropropene	25.0	25.4		ug/L		102	80 - 120
Trichloroethene	25.0	26.3		ug/L		105	74 - 123
Trichlorofluoromethane	25.0	32.8		ug/L		131	62 - 150
Vinyl chloride	25.0	24.1		ug/L		96	65 - 133
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	74 - 124
Styrene	25.0	25.6		ug/L		103	80 - 120
tert-Butylbenzene	25.0	25.3		ug/L		101	75 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*75 - 123*

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 730914

Client Sample ID: RI MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	1.0	U F1	25.0	36.4	F1	ug/L		146	73 - 126
1,1,2,2-Tetrachloroethane	1.0	U	25.0	23.4		ug/L		93	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	30.7		ug/L		123	61 - 148

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

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 730914

Client Sample ID: RI MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	1.0	U	25.0	24.7		ug/L		99	76 - 122
1,1-Dichloroethane	1.0	U	25.0	28.1		ug/L		112	77 - 120
1,1-Dichloroethene	1.0	U	25.0	30.4		ug/L		122	66 - 127
1,2,4-Trichlorobenzene	1.0	U	25.0	29.7		ug/L		119	79 - 122
1,2,4-Trimethylbenzene	1.0	U	25.0	28.0		ug/L		112	76 - 121
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	29.4		ug/L		118	56 - 134
1,2-Dichlorobenzene	1.0	U	25.0	27.1		ug/L		108	80 - 124
1,2-Dichloroethane	1.0	U F1	25.0	31.2	F1	ug/L		125	75 - 120
1,2-Dichloropropane	1.0	U	25.0	24.6		ug/L		98	76 - 120
1,3,5-Trimethylbenzene	1.0	U	25.0	28.1		ug/L		113	77 - 121
1,3-Dichlorobenzene	1.0	U	25.0	26.5		ug/L		106	77 - 120
1,4-Dichlorobenzene	1.0	U	25.0	26.0		ug/L		104	78 - 124
2-Butanone (MEK)	10	U	125	128		ug/L		102	57 - 140
2-Hexanone	5.0	U	125	127		ug/L		101	65 - 127
4-Isopropyltoluene	1.0	U	25.0	28.9		ug/L		116	73 - 120
4-Methyl-2-pentanone (MIBK)	5.0	U	125	125		ug/L		100	71 - 125
Acetone	10	U	125	135		ug/L		108	56 - 142
Benzene	1.0	U	25.0	26.8		ug/L		107	71 - 124
Bromoform	1.0	U	25.0	30.8		ug/L		123	61 - 132
Bromomethane	1.0	U	25.0	32.2		ug/L		129	55 - 144
Carbon disulfide	1.0	U	25.0	26.0		ug/L		104	59 - 134
Carbon tetrachloride	1.0	U F1	25.0	38.1	F1	ug/L		152	72 - 134
Chlorobenzene	1.0	U	25.0	27.2		ug/L		109	80 - 120
Dibromochloromethane	1.0	U	25.0	31.1		ug/L		124	75 - 125
Chloroethane	1.0	U	25.0	29.3		ug/L		117	69 - 136
Chloroform	2.3		25.0	32.4		ug/L		121	73 - 127
Chloromethane	1.0	U	25.0	24.0		ug/L		96	68 - 124
cis-1,2-Dichloroethene	1.0	U	25.0	29.1		ug/L		116	74 - 124
Cyclohexane	1.0	U	25.0	25.0		ug/L		100	59 - 135
Bromodichloromethane	1.0	U F1	25.0	32.5	F1	ug/L		130	80 - 122
Dichlorodifluoromethane	1.0	U	25.0	26.9		ug/L		108	59 - 135
Ethylbenzene	1.0	U	25.0	27.9		ug/L		112	77 - 123
1,2-Dibromoethane	1.0	U	25.0	27.4		ug/L		110	77 - 120
Isopropylbenzene	1.0	U	25.0	28.1		ug/L		112	77 - 122
Methyl acetate	2.5	U	50.0	47.5		ug/L		95	74 - 133
Methyl tert-butyl ether	1.0	U	25.0	28.4		ug/L		114	77 - 120
Methylcyclohexane	1.0	U	25.0	27.6		ug/L		110	68 - 134
Methylene Chloride	1.0	U	25.0	27.3		ug/L		109	75 - 124
m,p-Xylene	2.0	U	25.0	28.1		ug/L		112	76 - 122
Naphthalene	1.0	U	25.0	29.9		ug/L		120	66 - 125
n-Butylbenzene	1.0	U	25.0	27.3		ug/L		109	71 - 128
N-Propylbenzene	1.0	U	25.0	26.3		ug/L		105	75 - 127
o-Xylene	1.0	U	25.0	29.1		ug/L		116	76 - 122
sec-Butylbenzene	1.0	U	25.0	27.6		ug/L		110	74 - 127
Tetrachloroethene	12	F1	25.0	42.3		ug/L		122	74 - 122
Toluene	1.0	U	25.0	26.0		ug/L		104	80 - 122
trans-1,2-Dichloroethene	1.0	U	25.0	30.5		ug/L		122	73 - 127
trans-1,3-Dichloropropene	1.0	U	25.0	27.4		ug/L		110	80 - 120
Trichloroethene	3.5		25.0	33.8		ug/L		121	74 - 123

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

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 730914

Client Sample ID: RI MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane	1.0	U F1	25.0	40.7	F1	ug/L		163	62 - 150
Vinyl chloride	1.0	U	25.0	27.9		ug/L		112	65 - 133
cis-1,3-Dichloropropene	1.0	U	25.0	26.4		ug/L		106	74 - 124
Styrene	1.0	U	25.0	27.5		ug/L		110	80 - 120
tert-Butylbenzene	1.0	U	25.0	29.0		ug/L		116	75 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*77 - 120*
4-Bromofluorobenzene (Surr)	*114*		*73 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*119*		*75 - 123*

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 730914

Client Sample ID: RI MW-3
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	1.0	U F1	25.0	36.2	F1	ug/L		145	73 - 126	0	15
1,1,2,2-Tetrachloroethane	1.0	U	25.0	22.3		ug/L		89	76 - 120	5	15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	30.2		ug/L		121	61 - 148	1	20
1,1,2-Trichloroethane	1.0	U	25.0	24.7		ug/L		99	76 - 122	0	15
1,1-Dichloroethane	1.0	U	25.0	27.6		ug/L		110	77 - 120	2	20
1,1-Dichloroethene	1.0	U	25.0	30.4		ug/L		122	66 - 127	0	16
1,2,4-Trichlorobenzene	1.0	U	25.0	30.0		ug/L		120	79 - 122	1	20
1,2,4-Trimethylbenzene	1.0	U	25.0	27.4		ug/L		109	76 - 121	2	20
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	29.2		ug/L		117	56 - 134	1	15
1,2-Dichlorobenzene	1.0	U	25.0	27.1		ug/L		108	80 - 124	0	20
1,2-Dichloroethane	1.0	U F1	25.0	31.4	F1	ug/L		125	75 - 120	1	20
1,2-Dichloropropane	1.0	U	25.0	24.3		ug/L		97	76 - 120	1	20
1,3,5-Trimethylbenzene	1.0	U	25.0	27.3		ug/L		109	77 - 121	3	20
1,3-Dichlorobenzene	1.0	U	25.0	26.0		ug/L		104	77 - 120	2	20
1,4-Dichlorobenzene	1.0	U	25.0	25.5		ug/L		102	78 - 124	2	20
2-Butanone (MEK)	10	U	125	124		ug/L		99	57 - 140	3	20
2-Hexanone	5.0	U	125	124		ug/L		99	65 - 127	2	15
4-Isopropyltoluene	1.0	U	25.0	28.6		ug/L		114	73 - 120	1	20
4-Methyl-2-pentanone (MIBK)	5.0	U	125	121		ug/L		97	71 - 125	3	35
Acetone	10	U	125	131		ug/L		105	56 - 142	3	15
Benzene	1.0	U	25.0	26.7		ug/L		107	71 - 124	0	13
Bromoform	1.0	U	25.0	29.7		ug/L		119	61 - 132	4	15
Bromomethane	1.0	U	25.0	32.1		ug/L		128	55 - 144	0	15
Carbon disulfide	1.0	U	25.0	25.6		ug/L		103	59 - 134	2	15
Carbon tetrachloride	1.0	U F1	25.0	37.7	F1	ug/L		151	72 - 134	1	15
Chlorobenzene	1.0	U	25.0	26.8		ug/L		107	80 - 120	1	25
Dibromochloromethane	1.0	U	25.0	30.5		ug/L		122	75 - 125	2	15
Chloroethane	1.0	U	25.0	29.3		ug/L		117	69 - 136	0	15
Chloroform	2.3		25.0	32.2		ug/L		120	73 - 127	1	20
Chloromethane	1.0	U	25.0	24.0		ug/L		96	68 - 124	0	15
cis-1,2-Dichloroethene	1.0	U	25.0	29.6		ug/L		118	74 - 124	2	15

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

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 730914

Client Sample ID: RI MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyclohexane	1.0	U	25.0	25.1		ug/L		100	59 - 135	0	20
Bromodichloromethane	1.0	U F1	25.0	31.8	F1	ug/L		127	80 - 122	2	15
Dichlorodifluoromethane	1.0	U	25.0	26.0		ug/L		104	59 - 135	4	20
Ethylbenzene	1.0	U	25.0	27.9		ug/L		111	77 - 123	0	15
1,2-Dibromoethane	1.0	U	25.0	26.7		ug/L		107	77 - 120	3	15
Isopropylbenzene	1.0	U	25.0	27.8		ug/L		111	77 - 122	1	20
Methyl acetate	2.5	U	50.0	46.5		ug/L		93	74 - 133	2	20
Methyl tert-butyl ether	1.0	U	25.0	28.4		ug/L		114	77 - 120	0	37
Methylcyclohexane	1.0	U	25.0	27.6		ug/L		110	68 - 134	0	20
Methylene Chloride	1.0	U	25.0	26.7		ug/L		107	75 - 124	2	15
m,p-Xylene	2.0	U	25.0	28.2		ug/L		113	76 - 122	0	16
Naphthalene	1.0	U	25.0	29.6		ug/L		118	66 - 125	1	20
n-Butylbenzene	1.0	U	25.0	27.2		ug/L		109	71 - 128	0	15
N-Propylbenzene	1.0	U	25.0	25.6		ug/L		102	75 - 127	3	15
o-Xylene	1.0	U	25.0	28.5		ug/L		114	76 - 122	2	16
sec-Butylbenzene	1.0	U	25.0	26.9		ug/L		107	74 - 127	3	15
Tetrachloroethene	12	F1	25.0	44.8	F1	ug/L		132	74 - 122	6	20
Toluene	1.0	U	25.0	26.0		ug/L		104	80 - 122	0	15
trans-1,2-Dichloroethene	1.0	U	25.0	30.3		ug/L		121	73 - 127	1	20
trans-1,3-Dichloropropene	1.0	U	25.0	27.3		ug/L		109	80 - 120	0	15
Trichloroethene	3.5		25.0	33.6		ug/L		120	74 - 123	0	16
Trichlorofluoromethane	1.0	U F1	25.0	40.2	F1	ug/L		161	62 - 150	1	20
Vinyl chloride	1.0	U	25.0	28.4		ug/L		114	65 - 133	2	15
cis-1,3-Dichloropropene	1.0	U	25.0	27.0		ug/L		108	74 - 124	2	15
Styrene	1.0	U	25.0	27.0		ug/L		108	80 - 120	2	20
tert-Butylbenzene	1.0	U	25.0	28.6		ug/L		114	75 - 123	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*77 - 120*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*120*		*75 - 123*

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

Lab Sample ID: MB 480-730680/1-A
Matrix: Water
Analysis Batch: 730787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	5.0	U	5.0	0.65	ug/L		10/31/24 13:59	11/01/24 13:16	1
bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	ug/L		10/31/24 13:59	11/01/24 13:16	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.48	ug/L		10/31/24 13:59	11/01/24 13:16	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.61	ug/L		10/31/24 13:59	11/01/24 13:16	1
2,4-Dichlorophenol	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/01/24 13:16	1
2,4-Dimethylphenol	5.0	U	5.0	0.50	ug/L		10/31/24 13:59	11/01/24 13:16	1
2,4-Dinitrophenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/01/24 13:16	1
2,4-Dinitrotoluene	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/01/24 13:16	1
2,6-Dinitrotoluene	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/01/24 13:16	1

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

Lab Sample ID: MB 480-730680/1-A
Matrix: Water
Analysis Batch: 730787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	5.0	U	5.0	0.46	ug/L		10/31/24 13:59	11/01/24 13:16	1
2-Chlorophenol	5.0	U	5.0	0.53	ug/L		10/31/24 13:59	11/01/24 13:16	1
2-Methylnaphthalene	5.0	U	5.0	0.60	ug/L		10/31/24 13:59	11/01/24 13:16	1
2-Methylphenol	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/01/24 13:16	1
2-Nitroaniline	10	U	10	0.42	ug/L		10/31/24 13:59	11/01/24 13:16	1
2-Nitrophenol	5.0	U	5.0	0.48	ug/L		10/31/24 13:59	11/01/24 13:16	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/01/24 13:16	1
3-Nitroaniline	10	U	10	0.48	ug/L		10/31/24 13:59	11/01/24 13:16	1
4,6-Dinitro-2-methylphenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/01/24 13:16	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/01/24 13:16	1
4-Chloro-3-methylphenol	5.0	U	5.0	0.45	ug/L		10/31/24 13:59	11/01/24 13:16	1
4-Chloroaniline	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/01/24 13:16	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/01/24 13:16	1
4-Methylphenol	10	U	10	0.36	ug/L		10/31/24 13:59	11/01/24 13:16	1
4-Nitroaniline	10	U	10	0.25	ug/L		10/31/24 13:59	11/01/24 13:16	1
4-Nitrophenol	10	U	10	1.5	ug/L		10/31/24 13:59	11/01/24 13:16	1
Acenaphthene	5.0	U	5.0	0.41	ug/L		10/31/24 13:59	11/01/24 13:16	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		10/31/24 13:59	11/01/24 13:16	1
Acetophenone	5.0	U	5.0	0.54	ug/L		10/31/24 13:59	11/01/24 13:16	1
Anthracene	5.0	U	5.0	0.28	ug/L		10/31/24 13:59	11/01/24 13:16	1
Atrazine	5.0	U	5.0	0.46	ug/L		10/31/24 13:59	11/01/24 13:16	1
Benzaldehyde	5.0	U	5.0	0.27	ug/L		10/31/24 13:59	11/01/24 13:16	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/01/24 13:16	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/01/24 13:16	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/31/24 13:59	11/01/24 13:16	1
Benzo(g,h,i)perylene	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/01/24 13:16	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/31/24 13:59	11/01/24 13:16	1
Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	ug/L		10/31/24 13:59	11/01/24 13:16	1
Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/01/24 13:16	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	ug/L		10/31/24 13:59	11/01/24 13:16	1
Butyl benzyl phthalate	5.0	U	5.0	1.0	ug/L		10/31/24 13:59	11/01/24 13:16	1
Caprolactam	5.0	U	5.0	2.2	ug/L		10/31/24 13:59	11/01/24 13:16	1
Carbazole	5.0	U	5.0	0.30	ug/L		10/31/24 13:59	11/01/24 13:16	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/31/24 13:59	11/01/24 13:16	1
Di-n-butyl phthalate	5.0	U	5.0	0.31	ug/L		10/31/24 13:59	11/01/24 13:16	1
Di-n-octyl phthalate	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/01/24 13:16	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/31/24 13:59	11/01/24 13:16	1
Dibenzofuran	10	U	10	0.51	ug/L		10/31/24 13:59	11/01/24 13:16	1
Diethyl phthalate	5.0	U	5.0	0.22	ug/L		10/31/24 13:59	11/01/24 13:16	1
Dimethyl phthalate	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/01/24 13:16	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		10/31/24 13:59	11/01/24 13:16	1
Fluorene	5.0	U	5.0	0.36	ug/L		10/31/24 13:59	11/01/24 13:16	1
Hexachlorobenzene	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/01/24 13:16	1
Hexachlorobutadiene	5.0	U	5.0	0.68	ug/L		10/31/24 13:59	11/01/24 13:16	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/01/24 13:16	1
Hexachloroethane	5.0	U	5.0	0.59	ug/L		10/31/24 13:59	11/01/24 13:16	1
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/31/24 13:59	11/01/24 13:16	1
Isophorone	5.0	U	5.0	0.43	ug/L		10/31/24 13:59	11/01/24 13:16	1
N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	ug/L		10/31/24 13:59	11/01/24 13:16	1

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

Lab Sample ID: MB 480-730680/1-A
Matrix: Water
Analysis Batch: 730787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	5.0	U	5.0	0.51	ug/L		10/31/24 13:59	11/01/24 13:16	1
Naphthalene	5.0	U	5.0	0.76	ug/L		10/31/24 13:59	11/01/24 13:16	1
Nitrobenzene	5.0	U	5.0	0.29	ug/L		10/31/24 13:59	11/01/24 13:16	1
Pentachlorophenol	10	U	10	2.2	ug/L		10/31/24 13:59	11/01/24 13:16	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		10/31/24 13:59	11/01/24 13:16	1
Phenol	5.0	U	5.0	0.39	ug/L		10/31/24 13:59	11/01/24 13:16	1
Pyrene	5.0	U	5.0	0.34	ug/L		10/31/24 13:59	11/01/24 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*61*		*25 - 144*	*10/31/24 13:59*	*11/01/24 13:16*	*1*
2-Fluorobiphenyl	*71*		*53 - 126*	*10/31/24 13:59*	*11/01/24 13:16*	*1*
2-Fluorophenol	*56*		*24 - 120*	*10/31/24 13:59*	*11/01/24 13:16*	*1*
Nitrobenzene-d5	*82*		*29 - 129*	*10/31/24 13:59*	*11/01/24 13:16*	*1*
p-Terphenyl-d14	*78*		*33 - 132*	*10/31/24 13:59*	*11/01/24 13:16*	*1*
Phenol-d5	*42*		*10 - 120*	*10/31/24 13:59*	*11/01/24 13:16*	*1*

Lab Sample ID: LCS 480-730680/2-A
Matrix: Water
Analysis Batch: 731333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	32.0	24.8		ug/L		78	59 - 120
bis (2-chloroisopropyl) ether	32.0	26.1		ug/L		82	21 - 136
2,4,5-Trichlorophenol	32.0	30.1		ug/L		94	65 - 126
2,4,6-Trichlorophenol	32.0	27.9		ug/L		87	64 - 120
2,4-Dichlorophenol	32.0	27.5		ug/L		86	63 - 120
2,4-Dimethylphenol	32.0	26.9		ug/L		84	47 - 120
2,4-Dinitrophenol	64.0	70.5		ug/L		110	31 - 137
2,4-Dinitrotoluene	32.0	31.7		ug/L		99	69 - 120
2,6-Dinitrotoluene	32.0	30.5		ug/L		95	68 - 120
2-Chloronaphthalene	32.0	29.3		ug/L		92	58 - 120
2-Chlorophenol	32.0	25.9		ug/L		81	48 - 120
2-Methylnaphthalene	32.0	24.4		ug/L		76	59 - 120
2-Methylphenol	32.0	26.2		ug/L		82	39 - 120
2-Nitroaniline	32.0	29.2		ug/L		91	54 - 127
2-Nitrophenol	32.0	27.0		ug/L		84	52 - 125
3,3'-Dichlorobenzidine	32.0	24.7		ug/L		77	49 - 135
3-Nitroaniline	32.0	23.2		ug/L		73	51 - 120
4,6-Dinitro-2-methylphenol	64.0	66.3		ug/L		104	46 - 136
4-Bromophenyl phenyl ether	32.0	28.3		ug/L		88	65 - 120
4-Chloro-3-methylphenol	32.0	29.7		ug/L		93	61 - 123
4-Chloroaniline	32.0	20.7		ug/L		65	30 - 120
4-Chlorophenyl phenyl ether	32.0	27.1		ug/L		85	62 - 120
4-Methylphenol	32.0	25.2		ug/L		79	29 - 131
4-Nitroaniline	32.0	29.7		ug/L		93	65 - 120
4-Nitrophenol	64.0	50.8		ug/L		79	45 - 120
Acenaphthene	32.0	26.3		ug/L		82	60 - 120
Acenaphthylene	32.0	28.7		ug/L		90	63 - 120

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

Lab Sample ID: LCS 480-730680/2-A
Matrix: Water
Analysis Batch: 731333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetophenone	32.0	28.1		ug/L		88	45 - 120
Anthracene	32.0	30.1		ug/L		94	67 - 120
Atrazine	32.0	35.3		ug/L		110	71 - 130
Benzaldehyde	32.0	27.7		ug/L		87	10 - 140
Benzo(a)anthracene	32.0	31.1		ug/L		97	70 - 121
Benzo(a)pyrene	32.0	30.8		ug/L		96	60 - 123
Benzo(b)fluoranthene	32.0	32.3		ug/L		101	66 - 126
Benzo(g,h,i)perylene	32.0	30.6		ug/L		96	66 - 150
Benzo(k)fluoranthene	32.0	30.9		ug/L		97	65 - 124
Bis(2-chloroethoxy)methane	32.0	26.6		ug/L		83	50 - 128
Bis(2-chloroethyl)ether	32.0	30.4		ug/L		95	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	31.4		ug/L		98	63 - 139
Butyl benzyl phthalate	32.0	32.9		ug/L		103	70 - 129
Caprolactam	32.0	13.5		ug/L		42	22 - 120
Carbazole	32.0	31.8		ug/L		99	66 - 123
Chrysene	32.0	30.4		ug/L		95	69 - 120
Di-n-butyl phthalate	32.0	31.2		ug/L		98	69 - 131
Di-n-octyl phthalate	32.0	31.7		ug/L		99	63 - 140
Dibenz(a,h)anthracene	32.0	30.5		ug/L		95	65 - 135
Dibenzofuran	32.0	27.3		ug/L		85	66 - 120
Diethyl phthalate	32.0	31.2		ug/L		97	59 - 127
Dimethyl phthalate	32.0	30.9		ug/L		97	68 - 120
Fluoranthene	32.0	31.0		ug/L		97	69 - 126
Fluorene	32.0	28.2		ug/L		88	66 - 120
Hexachlorobenzene	32.0	29.2		ug/L		91	61 - 120
Hexachlorobutadiene	32.0	18.8		ug/L		59	35 - 120
Hexachlorocyclopentadiene	32.0	16.1		ug/L		50	31 - 120
Hexachloroethane	32.0	20.2		ug/L		63	33 - 120
Indeno(1,2,3-cd)pyrene	32.0	30.0		ug/L		94	69 - 146
Isophorone	32.0	28.4		ug/L		89	55 - 120
N-Nitrosodi-n-propylamine	32.0	28.0		ug/L		88	32 - 140
N-Nitrosodiphenylamine	32.0	28.6		ug/L		89	61 - 120
Naphthalene	32.0	24.9		ug/L		78	57 - 120
Nitrobenzene	32.0	26.7		ug/L		83	53 - 123
Pentachlorophenol	64.0	65.2		ug/L		102	10 - 136
Phenanthrene	32.0	28.9		ug/L		90	68 - 120
Phenol	32.0	17.3		ug/L		54	17 - 120
Pyrene	32.0	32.9		ug/L		103	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*91*		*25 - 144*
2-Fluorobiphenyl	*82*		*53 - 126*
2-Fluorophenol	*64*		*24 - 120*
Nitrobenzene-d5	*80*		*29 - 129*
p-Terphenyl-d14	*91*		*33 - 132*
Phenol-d5	*54*		*10 - 120*

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

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 730787

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 730680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	5.0	U	32.0	26.3		ug/L		82	57 - 120
bis (2-chloroisopropyl) ether	5.0	U	32.0	35.3		ug/L		110	28 - 121
2,4,5-Trichlorophenol	5.0	U	32.0	30.9		ug/L		97	65 - 126
2,4,6-Trichlorophenol	5.0	U	32.0	28.9		ug/L		90	64 - 120
2,4-Dichlorophenol	5.0	U	32.0	27.8		ug/L		87	48 - 132
2,4-Dimethylphenol	5.0	U	32.0	30.9		ug/L		97	39 - 130
2,4-Dinitrophenol	10	U	64.0	66.4		ug/L		104	21 - 150
2,4-Dinitrotoluene	5.0	U	32.0	35.6		ug/L		111	54 - 138
2,6-Dinitrotoluene	5.0	U	32.0	30.9		ug/L		96	17 - 150
2-Chloronaphthalene	5.0	U	32.0	31.7		ug/L		99	52 - 124
2-Chlorophenol	5.0	U	32.0	25.9		ug/L		81	48 - 120
2-Methylnaphthalene	5.0	U	32.0	25.7		ug/L		80	34 - 140
2-Methylphenol	5.0	U	32.0	26.6		ug/L		83	46 - 120
2-Nitroaniline	10	U	32.0	37.8		ug/L		118	44 - 136
2-Nitrophenol	5.0	U	32.0	27.6		ug/L		86	38 - 141
3,3'-Dichlorobenzidine	5.0	U	32.0	22.5		ug/L		70	10 - 150
3-Nitroaniline	10	U	32.0	27.6		ug/L		86	32 - 150
4,6-Dinitro-2-methylphenol	10	U	64.0	68.6		ug/L		107	38 - 150
4-Bromophenyl phenyl ether	5.0	U	32.0	28.3		ug/L		88	63 - 126
4-Chloro-3-methylphenol	5.0	U	32.0	31.6		ug/L		99	64 - 127
4-Chloroaniline	5.0	U	32.0	24.3		ug/L		76	16 - 124
4-Chlorophenyl phenyl ether	5.0	U	32.0	28.5		ug/L		89	61 - 120
4-Methylphenol	10	U	32.0	26.3		ug/L		82	36 - 120
4-Nitroaniline	10	U	32.0	30.4		ug/L		95	32 - 150
4-Nitrophenol	10	U	64.0	78.4		ug/L		122	23 - 132
Acenaphthene	5.0	U	32.0	29.6		ug/L		93	48 - 120
Acenaphthylene	5.0	U	32.0	30.3		ug/L		95	63 - 120
Acetophenone	5.0	U	32.0	30.3		ug/L		95	53 - 120
Anthracene	5.0	U	32.0	31.9		ug/L		100	65 - 122
Atrazine	5.0	U F2	32.0	31.9		ug/L		100	50 - 150
Benzaldehyde	5.0	U	32.0	31.2		ug/L		97	10 - 150
Benzo(a)anthracene	5.0	U	32.0	28.5		ug/L		89	43 - 124
Benzo(a)pyrene	5.0	U	32.0	26.8		ug/L		84	23 - 125
Benzo(b)fluoranthene	5.0	U	32.0	27.4		ug/L		86	27 - 127
Benzo(g,h,i)perylene	5.0	U	32.0	24.9		ug/L		78	16 - 147
Benzo(k)fluoranthene	5.0	U	32.0	26.3		ug/L		82	20 - 124
Bis(2-chloroethoxy)methane	5.0	U	32.0	27.4		ug/L		85	44 - 128
Bis(2-chloroethyl)ether	5.0	U	32.0	28.1		ug/L		88	45 - 120
Bis(2-ethylhexyl) phthalate	5.0	U	32.0	32.1		ug/L		100	16 - 150
Butyl benzyl phthalate	5.0	U	32.0	36.3		ug/L		113	51 - 140
Caprolactam	5.0	U	32.0	11.9		ug/L		37	10 - 120
Carbazole	5.0	U	32.0	31.6		ug/L		99	16 - 148
Chrysene	5.0	U	32.0	28.9		ug/L		90	44 - 122
Di-n-butyl phthalate	5.0	U	32.0	35.3		ug/L		110	65 - 129
Di-n-octyl phthalate	5.0	U	32.0	32.0		ug/L		100	16 - 150
Dibenz(a,h)anthracene	5.0	U	32.0	25.6		ug/L		80	16 - 139
Dibenzofuran	10	U	32.0	29.0		ug/L		91	60 - 120
Diethyl phthalate	5.0	U	32.0	36.9		ug/L		115	53 - 133

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

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 730787

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 730680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethyl phthalate	5.0	U	32.0	33.1		ug/L		104	59 - 123
Fluoranthene	5.0	U	32.0	31.7		ug/L		99	63 - 129
Fluorene	5.0	U	32.0	31.2		ug/L		97	62 - 120
Hexachlorobenzene	5.0	U	32.0	28.0		ug/L		88	57 - 121
Hexachlorobutadiene	5.0	U	32.0	22.1		ug/L		69	37 - 120
Hexachlorocyclopentadiene	5.0	U	32.0	12.4		ug/L		39	21 - 120
Hexachloroethane	5.0	U	32.0	26.7		ug/L		83	16 - 130
Indeno(1,2,3-cd)pyrene	5.0	U	32.0	25.4		ug/L		80	16 - 140
Isophorone	5.0	U	32.0	30.8		ug/L		96	48 - 133
N-Nitrosodi-n-propylamine	5.0	U	32.0	32.0		ug/L		100	49 - 120
N-Nitrosodiphenylamine	5.0	U	32.0	30.3		ug/L		95	39 - 138
Naphthalene	5.0	U	32.0	25.1		ug/L		78	45 - 120
Nitrobenzene	5.0	U	32.0	31.6		ug/L		99	45 - 123
Pentachlorophenol	10	U	64.0	53.5		ug/L		84	10 - 149
Phenanthrene	5.0	U	32.0	32.0		ug/L		100	65 - 122
Phenol	5.0	U	32.0	18.9		ug/L		59	16 - 120
Pyrene	5.0	U	32.0	32.5		ug/L		101	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*89*		*25 - 144*
2-Fluorobiphenyl	*84*		*53 - 126*
2-Fluorophenol	*65*		*24 - 120*
Nitrobenzene-d5	*94*		*29 - 129*
p-Terphenyl-d14	*71*		*33 - 132*
Phenol-d5	*52*		*10 - 120*

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 730787

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 730680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Biphenyl	5.0	U	32.0	27.2		ug/L		85	57 - 120	4	20
bis (2-chloroisopropyl) ether	5.0	U	32.0	35.1		ug/L		110	28 - 121	1	24
2,4,5-Trichlorophenol	5.0	U	32.0	30.4		ug/L		95	65 - 126	2	18
2,4,6-Trichlorophenol	5.0	U	32.0	29.1		ug/L		91	64 - 120	1	19
2,4-Dichlorophenol	5.0	U	32.0	27.8		ug/L		87	48 - 132	0	19
2,4-Dimethylphenol	5.0	U	32.0	30.9		ug/L		97	39 - 130	0	42
2,4-Dinitrophenol	10	U	64.0	68.1		ug/L		106	21 - 150	3	22
2,4-Dinitrotoluene	5.0	U	32.0	34.4		ug/L		108	54 - 138	3	20
2,6-Dinitrotoluene	5.0	U	32.0	31.1		ug/L		97	17 - 150	1	15
2-Chloronaphthalene	5.0	U	32.0	31.2		ug/L		98	52 - 124	2	21
2-Chlorophenol	5.0	U	32.0	27.1		ug/L		85	48 - 120	4	25
2-Methylnaphthalene	5.0	U	32.0	25.9		ug/L		81	34 - 140	0	21
2-Methylphenol	5.0	U	32.0	26.9		ug/L		84	46 - 120	1	27
2-Nitroaniline	10	U	32.0	37.5		ug/L		117	44 - 136	1	15
2-Nitrophenol	5.0	U	32.0	28.9		ug/L		90	38 - 141	4	18
3,3'-Dichlorobenzidine	5.0	U	32.0	23.5		ug/L		73	10 - 150	4	25
3-Nitroaniline	10	U	32.0	27.9		ug/L		87	32 - 150	1	19

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

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 730787

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 730680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	10	U	64.0	68.2		ug/L		107	38 - 150	1	15
4-Bromophenyl phenyl ether	5.0	U	32.0	27.8		ug/L		87	63 - 126	2	15
4-Chloro-3-methylphenol	5.0	U	32.0	31.1		ug/L		97	64 - 127	2	27
4-Chloroaniline	5.0	U	32.0	24.9		ug/L		78	16 - 124	2	22
4-Chlorophenyl phenyl ether	5.0	U	32.0	27.9		ug/L		87	61 - 120	2	16
4-Methylphenol	10	U	32.0	26.3		ug/L		82	36 - 120	0	24
4-Nitroaniline	10	U	32.0	29.5		ug/L		92	32 - 150	3	24
4-Nitrophenol	10	U	64.0	72.3		ug/L		113	23 - 132	8	48
Acenaphthene	5.0	U	32.0	29.1		ug/L		91	48 - 120	2	24
Acenaphthylene	5.0	U	32.0	29.9		ug/L		93	63 - 120	1	18
Acetophenone	5.0	U	32.0	30.9		ug/L		97	53 - 120	2	20
Anthracene	5.0	U	32.0	32.3		ug/L		101	65 - 122	1	15
Atrazine	5.0	U F2	32.0	23.6	F2	ug/L		74	50 - 150	30	20
Benzaldehyde	5.0	U	32.0	30.7		ug/L		96	10 - 150	2	20
Benzo(a)anthracene	5.0	U	32.0	30.8		ug/L		96	43 - 124	8	15
Benzo(a)pyrene	5.0	U	32.0	27.2		ug/L		85	23 - 125	1	15
Benzo(b)fluoranthene	5.0	U	32.0	28.4		ug/L		89	27 - 127	4	15
Benzo(g,h,i)perylene	5.0	U	32.0	26.1		ug/L		81	16 - 147	4	15
Benzo(k)fluoranthene	5.0	U	32.0	27.1		ug/L		85	20 - 124	3	22
Bis(2-chloroethoxy)methane	5.0	U	32.0	27.1		ug/L		85	44 - 128	1	17
Bis(2-chloroethyl)ether	5.0	U	32.0	28.3		ug/L		88	45 - 120	1	21
Bis(2-ethylhexyl) phthalate	5.0	U	32.0	35.0		ug/L		109	16 - 150	9	15
Butyl benzyl phthalate	5.0	U	32.0	38.9		ug/L		121	51 - 140	7	16
Caprolactam	5.0	U	32.0	11.9		ug/L		37	10 - 120	0	20
Carbazole	5.0	U	32.0	30.3		ug/L		95	16 - 148	4	20
Chrysene	5.0	U	32.0	31.0		ug/L		97	44 - 122	7	15
Di-n-butyl phthalate	5.0	U	32.0	35.7		ug/L		111	65 - 129	1	15
Di-n-octyl phthalate	5.0	U	32.0	34.8		ug/L		109	16 - 150	8	16
Dibenz(a,h)anthracene	5.0	U	32.0	26.7		ug/L		83	16 - 139	4	15
Dibenzofuran	10	U	32.0	28.9		ug/L		90	60 - 120	1	15
Diethyl phthalate	5.0	U	32.0	36.2		ug/L		113	53 - 133	2	15
Dimethyl phthalate	5.0	U	32.0	32.9		ug/L		103	59 - 123	1	15
Fluoranthene	5.0	U	32.0	31.5		ug/L		98	63 - 129	1	15
Fluorene	5.0	U	32.0	30.5		ug/L		95	62 - 120	2	15
Hexachlorobenzene	5.0	U	32.0	28.6		ug/L		89	57 - 121	2	15
Hexachlorobutadiene	5.0	U	32.0	21.9		ug/L		69	37 - 120	1	44
Hexachlorocyclopentadiene	5.0	U	32.0	12.8		ug/L		40	21 - 120	3	49
Hexachloroethane	5.0	U	32.0	26.6		ug/L		83	16 - 130	0	46
Indeno(1,2,3-cd)pyrene	5.0	U	32.0	26.3		ug/L		82	16 - 140	3	15
Isophorone	5.0	U	32.0	30.8		ug/L		96	48 - 133	0	17
N-Nitrosodi-n-propylamine	5.0	U	32.0	31.9		ug/L		100	49 - 120	0	31
N-Nitrosodiphenylamine	5.0	U	32.0	30.7		ug/L		96	39 - 138	1	15
Naphthalene	5.0	U	32.0	26.2		ug/L		82	45 - 120	4	29
Nitrobenzene	5.0	U	32.0	32.0		ug/L		100	45 - 123	1	24
Pentachlorophenol	10	U	64.0	57.8		ug/L		90	10 - 149	8	37
Phenanthrene	5.0	U	32.0	32.0		ug/L		100	65 - 122	0	15
Phenol	5.0	U	32.0	19.3		ug/L		60	16 - 120	2	34
Pyrene	5.0	U	32.0	34.6		ug/L		108	58 - 128	6	19

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

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 730787

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 730680

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol	88		25 - 144
2-Fluorobiphenyl	84		53 - 126
2-Fluorophenol	67		24 - 120
Nitrobenzene-d5	95		29 - 129
p-Terphenyl-d14	81		33 - 132
Phenol-d5	54		10 - 120

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-730679/1-A
Matrix: Water
Analysis Batch: 730784

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		10/31/24 13:53	11/01/24 11:17	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	39		15 - 110	10/31/24 13:53	11/01/24 11:17	1

Lab Sample ID: LCS 480-730679/2-A
Matrix: Water
Analysis Batch: 730784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730679

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			2.00	2.15		ug/L		107	40 - 140		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8	43		15 - 110

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 730784

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 730679

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	0.20	U	2.08	2.20		ug/L		106	40 - 140		

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
1,4-Dioxane-d8	41		15 - 110

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 730784

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 730679

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	0.20	U	2.00	2.08		ug/L		104	40 - 140	6	20

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
1,4-Dioxane-d8	42		15 - 110

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-731202/1-A
Matrix: Water
Analysis Batch: 731303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.050	U	0.050	0.0092	ug/L		11/05/24 09:19	11/06/24 09:07	1
4,4'-DDE	0.050	U	0.050	0.012	ug/L		11/05/24 09:19	11/06/24 09:07	1
4,4'-DDT	0.0248	J	0.050	0.011	ug/L		11/05/24 09:19	11/06/24 09:07	1
Aldrin	0.050	U	0.050	0.0081	ug/L		11/05/24 09:19	11/06/24 09:07	1
alpha-BHC	0.050	U	0.050	0.0077	ug/L		11/05/24 09:19	11/06/24 09:07	1
Chlordane (.alpha.)	0.050	U	0.050	0.015	ug/L		11/05/24 09:19	11/06/24 09:07	1
beta-BHC	0.050	U	0.050	0.025	ug/L		11/05/24 09:19	11/06/24 09:07	1
delta-BHC	0.0117	J	0.050	0.010	ug/L		11/05/24 09:19	11/06/24 09:07	1
Dieldrin	0.050	U	0.050	0.0098	ug/L		11/05/24 09:19	11/06/24 09:07	1
Endosulfan I	0.050	U	0.050	0.011	ug/L		11/05/24 09:19	11/06/24 09:07	1
Endosulfan II	0.0244	J	0.050	0.012	ug/L		11/05/24 09:19	11/06/24 09:07	1
Endosulfan sulfate	0.050	U	0.050	0.016	ug/L		11/05/24 09:19	11/06/24 09:07	1
Endrin	0.050	U	0.050	0.014	ug/L		11/05/24 09:19	11/06/24 09:07	1
Lindane	0.00858	J	0.050	0.0080	ug/L		11/05/24 09:19	11/06/24 09:07	1
Heptachlor	0.050	U	0.050	0.0085	ug/L		11/05/24 09:19	11/06/24 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*10 - 120*	*11/05/24 09:19*	*11/06/24 09:07*	*1*
DCB Decachlorobiphenyl	*55*		*10 - 120*	*11/05/24 09:19*	*11/06/24 09:07*	*1*
Tetrachloro-m-xylene	*68*		*10 - 120*	*11/05/24 09:19*	*11/06/24 09:07*	*1*
Tetrachloro-m-xylene	*63*		*10 - 120*	*11/05/24 09:19*	*11/06/24 09:07*	*1*

Lab Sample ID: LCS 480-731202/2-A
Matrix: Water
Analysis Batch: 731303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731202

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			0.400	0.346		ug/L		86	64 - 129		
4,4'-DDE			0.400	0.286		ug/L		72	50 - 120		
4,4'-DDT			0.400	0.335		ug/L		84	59 - 120		
Aldrin			0.400	0.248		ug/L		62	40 - 125		
alpha-BHC			0.400	0.264		ug/L		66	52 - 125		
Chlordane (.alpha.)			0.400	0.287		ug/L		72	52 - 120		
beta-BHC			0.400	0.304		ug/L		76	51 - 120		
delta-BHC			0.400	0.295		ug/L		74	51 - 120		
Dieldrin			0.400	0.358		ug/L		90	66 - 128		
Endosulfan I			0.400	0.337		ug/L		84	57 - 120		
Endosulfan II			0.400	0.414		ug/L		104	66 - 131		
Endosulfan sulfate			0.400	0.363		ug/L		91	66 - 136		
Endrin			0.400	0.367		ug/L		92	65 - 135		
Lindane			0.400	0.297		ug/L		74	56 - 120		
Heptachlor			0.400	0.314		ug/L		78	58 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*45*		*10 - 120*
DCB Decachlorobiphenyl	*45*		*10 - 120*
Tetrachloro-m-xylene	*68*		*10 - 120*
Tetrachloro-m-xylene	*63*		*10 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 731303

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 731202

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.050	U	0.417	0.349		ug/L		84	57 - 130
4,4'-DDE	0.050	U	0.417	0.279		ug/L		67	39 - 120
4,4'-DDT	0.024	J B	0.417	0.346		ug/L		77	37 - 130
Aldrin	0.050	U	0.417	0.262		ug/L		63	39 - 125
alpha-BHC	0.050	U	0.417	0.274		ug/L		66	48 - 120
Chlordane (.alpha.)	0.050	U	0.417	0.292		ug/L		70	44 - 120
beta-BHC	0.050	U	0.417	0.308		ug/L		74	49 - 120
delta-BHC	0.050	U	0.417	0.295		ug/L		71	50 - 120
Dieldrin	0.050	U	0.417	0.362		ug/L		87	56 - 130
Endosulfan I	0.050	U	0.417	0.341		ug/L		82	40 - 126
Endosulfan II	0.013	J B	0.417	0.412		ug/L		96	59 - 140
Endosulfan sulfate	0.050	U	0.417	0.373		ug/L		90	60 - 134
Endrin	0.050	U	0.417	0.371		ug/L		89	54 - 135
Lindane	0.050	U	0.417	0.301		ug/L		72	50 - 120
Heptachlor	0.050	U	0.417	0.315		ug/L		76	56 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*59*		*10 - 120*
DCB Decachlorobiphenyl	*56*		*10 - 120*
Tetrachloro-m-xylene	*69*		*10 - 120*
Tetrachloro-m-xylene	*64*		*10 - 120*

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 731303

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 731202

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.050	U	0.400	0.342		ug/L		86	57 - 130	2	23
4,4'-DDE	0.050	U	0.400	0.266		ug/L		66	39 - 120	5	22
4,4'-DDT	0.024	J B	0.400	0.314		ug/L		73	37 - 130	10	24
Aldrin	0.050	U	0.400	0.262		ug/L		66	39 - 125	0	25
alpha-BHC	0.050	U	0.400	0.279		ug/L		70	48 - 120	2	24
Chlordane (.alpha.)	0.050	U	0.400	0.283		ug/L		71	44 - 120	3	23
beta-BHC	0.050	U	0.400	0.311		ug/L		78	49 - 120	1	24
delta-BHC	0.050	U	0.400	0.300		ug/L		75	50 - 120	2	24
Dieldrin	0.050	U	0.400	0.363		ug/L		91	56 - 130	0	24
Endosulfan I	0.050	U	0.400	0.342		ug/L		86	40 - 126	0	30
Endosulfan II	0.013	J B	0.400	0.395		ug/L		96	59 - 140	4	40
Endosulfan sulfate	0.050	U	0.400	0.376		ug/L		94	60 - 134	1	24
Endrin	0.050	U	0.400	0.372		ug/L		93	54 - 135	0	24
Lindane	0.050	U	0.400	0.302		ug/L		76	50 - 120	0	24
Heptachlor	0.050	U	0.400	0.310		ug/L		77	56 - 120	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*57*		*10 - 120*
DCB Decachlorobiphenyl	*54*		*10 - 120*
Tetrachloro-m-xylene	*75*		*10 - 120*
Tetrachloro-m-xylene	*98*		*10 - 120*

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

Lab Sample ID: MB 480-731490/1-A
Matrix: Water
Analysis Batch: 731518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.18	ug/L		11/07/24 09:15	11/07/24 14:42	1
PCB-1221	0.50	U	0.50	0.18	ug/L		11/07/24 09:15	11/07/24 14:42	1
PCB-1232	0.50	U	0.50	0.18	ug/L		11/07/24 09:15	11/07/24 14:42	1
PCB-1242	0.50	U	0.50	0.18	ug/L		11/07/24 09:15	11/07/24 14:42	1
PCB-1248	0.50	U	0.50	0.18	ug/L		11/07/24 09:15	11/07/24 14:42	1
PCB-1254	0.50	U	0.50	0.25	ug/L		11/07/24 09:15	11/07/24 14:42	1
PCB-1260	0.50	U	0.50	0.25	ug/L		11/07/24 09:15	11/07/24 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*10 - 145*	*11/07/24 09:15*	*11/07/24 14:42*	*1*
Tetrachloro-m-xylene	*66*		*10 - 145*	*11/07/24 09:15*	*11/07/24 14:42*	*1*
DCB Decachlorobiphenyl	*47*		*10 - 123*	*11/07/24 09:15*	*11/07/24 14:42*	*1*
DCB Decachlorobiphenyl	*72*		*10 - 123*	*11/07/24 09:15*	*11/07/24 14:42*	*1*

Lab Sample ID: LCS 480-731490/2-A
Matrix: Water
Analysis Batch: 731518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731490

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			4.00	3.39		ug/L		85	62 - 130		
PCB-1260			4.00	3.48		ug/L		87	56 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*63*		*10 - 145*
Tetrachloro-m-xylene	*69*		*10 - 145*
DCB Decachlorobiphenyl	*42*		*10 - 123*
DCB Decachlorobiphenyl	*65*		*10 - 123*

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 731518

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 731490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	0.60	U	4.55	3.84		ug/L		84	28 - 150		
PCB-1260	0.60	U	4.55	3.86		ug/L		85	25 - 131		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*64*		*10 - 145*
Tetrachloro-m-xylene	*71*		*10 - 145*
DCB Decachlorobiphenyl	*45*		*10 - 123*
DCB Decachlorobiphenyl	*70*		*10 - 123*

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 731518

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 731490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.60	U	4.00	3.28		ug/L		82	28 - 150	16	50

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

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 731518

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 731490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1260	0.60	U	4.00	3.05		ug/L		76	25 - 131	23	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*10 - 145*
Tetrachloro-m-xylene	*63*		*10 - 145*
DCB Decachlorobiphenyl	*41*		*10 - 123*
DCB Decachlorobiphenyl	*61*		*10 - 123*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-731060/1-A
Matrix: Water
Analysis Batch: 731215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	0.50	U	0.50	0.050	ug/L		11/04/24 09:29	11/05/24 18:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*76*		*21 - 143*	*11/04/24 09:29*	*11/05/24 18:09*	*1*
2,4-Dichlorophenylacetic acid	*78*		*21 - 143*	*11/04/24 09:29*	*11/05/24 18:09*	*1*

Lab Sample ID: LCS 480-731060/2-A
Matrix: Water
Analysis Batch: 731215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731060

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Silvex (2,4,5-TP)			2.00	1.46		ug/L		73	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*87*		*21 - 143*
2,4-Dichlorophenylacetic acid	*80*		*21 - 143*

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 731215

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 731060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Silvex (2,4,5-TP)	0.51	U	1.96	1.29		ug/L		66	25 - 146		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*82*		*21 - 143*
2,4-Dichlorophenylacetic acid	*76*		*21 - 143*

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

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 731215

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 731060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silvex (2,4,5-TP)	0.51	U	1.90	1.32		ug/L		69	25 - 146	3	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*99*		*21 - 143*
2,4-Dichlorophenylacetic acid	*72*		*21 - 143*

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

Lab Sample ID: MB 240-633735/1-A
Matrix: Water
Analysis Batch: 633860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	8.0	U	8.0	2.1	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluoropentanoic acid (PFPeA)	4.0	U	4.0	1.0	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorohexanoic acid (PFHxA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluoroheptanoic acid (PFHpA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorooctanoic acid (PFOA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorononanoic acid (PFNA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorodecanoic acid (PFDA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluoroundecanoic acid (PFUnA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorododecanoic acid (PFDoA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorotridecanoic acid (PFTrDA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorotetradecanoic acid (PFTeDA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorobutanesulfonic acid (PFBS)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluoropentanesulfonic acid (PFPeS)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorohexanesulfonic acid (PFHxS)	2.0	U	2.0	0.52	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluoroheptanesulfonic acid (PFHpS)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorooctanesulfonic acid (PFOS)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorononanesulfonic acid (PFNS)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorododecanesulfonic acid (PFDoS)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	8.0	U	8.0	2.0	ng/L		11/04/24 07:45	11/04/24 16:26	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	8.0	U	8.0	2.0	ng/L		11/04/24 07:45	11/04/24 16:26	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	8.0	U	8.0	2.0	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorooctanesulfonamide (PFOSA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.0	U	2.0	0.62	ng/L		11/04/24 07:45	11/04/24 16:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.0	U	2.0	0.52	ng/L		11/04/24 07:45	11/04/24 16:26	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20	U	20	5.0	ng/L		11/04/24 07:45	11/04/24 16:26	1

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

Lab Sample ID: MB 240-633735/1-A
Matrix: Water
Analysis Batch: 633860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20	U	20	5.0	ng/L		11/04/24 07:45	11/04/24 16:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.0	U	8.0	2.0	ng/L		11/04/24 07:45	11/04/24 16:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.0	U	8.0	2.0	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	4.0	1.0	ng/L		11/04/24 07:45	11/04/24 16:26	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.0	U	4.0	1.2	ng/L		11/04/24 07:45	11/04/24 16:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	8.0	U	8.0	2.0	ng/L		11/04/24 07:45	11/04/24 16:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	8.0	U	8.0	2.0	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.0	U	4.0	1.0	ng/L		11/04/24 07:45	11/04/24 16:26	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	10	U	10	2.5	ng/L		11/04/24 07:45	11/04/24 16:26	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	50	U	50	13	ng/L		11/04/24 07:45	11/04/24 16:26	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50	U	50	15	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluorodecanesulfonic acid (PFDS)	2.0	U	2.0	0.50	ng/L		11/04/24 07:45	11/04/24 16:26	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	4.0	1.0	ng/L		11/04/24 07:45	11/04/24 16:26	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85.6*		*10 - 130*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C5 PFPeA	*81.5*		*35 - 150*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C5 PFHxA	*83.1*		*55 - 150*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C4 PFHpA	*90.7*		*55 - 150*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C8 PFOA	*87.5*		*60 - 140*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C9 PFNA	*83.3*		*55 - 140*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C6 PFDA	*72.4*		*50 - 140*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C7 PFUnA	*70.9*		*30 - 140*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C2 PFTeDA	*46.9*		*10 - 130*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C3 PFBS	*89.6*		*55 - 150*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C3 PFHxS	*82.0*		*55 - 150*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C8 PFOS	*80.4*		*45 - 140*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C8 PFOSA	*75.0*		*30 - 130*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
d3-NMeFOSAA	*71.6*		*45 - 200*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
d5-NEtFOSAA	*91.0*		*10 - 200*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
M2-4:2 FTS	*101*		*60 - 200*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
M2-6:2 FTS	*85.9*		*60 - 200*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
M2-8:2 FTS	*86.1*		*50 - 200*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C3 HFPO-DA	*82.2*		*25 - 160*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
d7-N-MeFOSE-M	*70.0*		*10 - 150*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
d9-N-EtFOSE-M	*64.5*		*10 - 150*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
d5-NEtPFOSA	*47.3*		*10 - 130*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
D3-NMeFOSA	*45.9*		*15 - 130*	*11/04/24 07:45*	*11/04/24 16:26*	*1*
13C2-PFDoDA	*68.2*		*10 - 150*	*11/04/24 07:45*	*11/04/24 16:26*	*1*

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

Lab Sample ID: LCS 240-633735/3-A
Matrix: Water
Analysis Batch: 633860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	100	132		ng/L		132	58 - 148
Perfluoropentanoic acid (PFPeA)	50.0	59.7		ng/L		119	54 - 152
Perfluorohexanoic acid (PFHxA)	25.0	31.1		ng/L		124	55 - 152
Perfluoroheptanoic acid (PFHpA)	25.0	30.1		ng/L		120	54 - 154
Perfluorooctanoic acid (PFOA)	25.0	28.4		ng/L		113	52 - 161
Perfluorononanoic acid (PFNA)	25.0	27.9		ng/L		112	59 - 149
Perfluorodecanoic acid (PFDA)	25.0	28.6		ng/L		114	52 - 147
Perfluoroundecanoic acid (PFUnA)	25.0	29.1		ng/L		116	48 - 159
Perfluorododecanoic acid (PFDoA)	25.0	29.2		ng/L		117	64 - 142
Perfluorotridecanoic acid (PFTrDA)	25.0	28.6		ng/L		115	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	25.0	28.0		ng/L		112	47 - 161
Perfluorobutanesulfonic acid (PFBS)	22.1	26.3		ng/L		119	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	23.5	29.6		ng/L		126	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	22.8	26.7		ng/L		117	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	23.8	29.9		ng/L		125	55 - 152
Perfluorooctanesulfonic acid (PFOS)	23.2	30.0		ng/L		129	58 - 149
Perfluorononanesulfonic acid (PFNS)	24.0	29.6		ng/L		123	52 - 148
Perfluorododecanesulfonic acid (PFDoS)	24.2	20.3		ng/L		84	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	93.4	115		ng/L		124	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	94.8	112		ng/L		118	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	95.8	120		ng/L		125	63 - 152
Perfluorooctanesulfonamide (PFOSA)	25.0	29.8		ng/L		119	61 - 148
N-methylperfluorooctane sulfonamide (NMeFOSA)	25.0	34.1		ng/L		136	63 - 145
N-ethylperfluorooctane sulfonamide (NEtFOSA)	25.0	31.7		ng/L		127	65 - 139
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.0	30.5		ng/L		122	58 - 144
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.0	30.1		ng/L		120	59 - 146
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	250	301		ng/L		120	71 - 136
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	250	300		ng/L		120	69 - 137
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	120		ng/L		120	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.2	121		ng/L		128	68 - 146

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

Lab Sample ID: LCS 240-633735/3-A
Matrix: Water
Analysis Batch: 633860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-4-methoxybutanoic acid (PFMBA)	50.0	62.6		ng/L		125	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50.0	54.4		ng/L		109	48 - 161
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	93.2	105		ng/L		113	56 - 156
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	94.2	92.4		ng/L		98	46 - 156
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44.5	52.0		ng/L		117	56 - 151
3-Perfluoropropylpropanoic acid (3:3 FTCA)	125	138		ng/L		111	62 - 129
3-Perfluoropentylpropanoic acid (5:3 FTCA)	625	675		ng/L		108	63 - 134
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	625	574		ng/L		92	50 - 138
Perfluorodecanesulfonic acid (PFDS)	24.1	27.5		ng/L		114	51 - 147
Perfluoro-3-methoxypropanoic acid (PFMPA)	50.0	57.9		ng/L		116	51 - 145

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*79.3*		*10 - 130*
13C5 PFPeA	*75.3*		*40 - 150*
13C5 PFHxA	*78.9*		*40 - 150*
13C4 PFHpA	*83.9*		*40 - 150*
13C8 PFOA	*80.2*		*30 - 140*
13C9 PFNA	*77.8*		*30 - 140*
13C6 PFDA	*75.6*		*20 - 140*
13C7 PFUnA	*70.2*		*20 - 140*
13C2 PFTeDA	*58.0*		*10 - 130*
13C3 PFBS	*85.0*		*25 - 150*
13C3 PFHxS	*77.9*		*25 - 150*
13C8 PFOS	*70.0*		*20 - 140*
13C8 PFOSA	*67.5*		*10 - 130*
d3-NMeFOSAA	*68.1*		*10 - 200*
d5-NEtFOSAA	*77.3*		*10 - 200*
M2-4:2 FTS	*91.3*		*25 - 200*
M2-6:2 FTS	*91.3*		*25 - 200*
M2-8:2 FTS	*86.2*		*25 - 200*
13C3 HFPO-DA	*77.0*		*25 - 160*
d7-N-MeFOSE-M	*65.8*		*10 - 150*
d9-N-EtFOSE-M	*61.5*		*10 - 150*
d5-NEtPFOSA	*48.1*		*10 - 130*
D3-NMeFOSA	*48.2*		*10 - 130*
13C2-PFDoDA	*70.4*		*10 - 150*

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

Lab Sample ID: LLCS 240-633735/2-A
Matrix: Water
Analysis Batch: 633860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633735

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	10.6		ng/L		132	44 - 157
Perfluoropentanoic acid (PFPeA)	4.00	4.67		ng/L		117	57 - 148
Perfluorohexanoic acid (PFHxA)	2.00	2.37		ng/L		119	62 - 149
Perfluoroheptanoic acid (PFHpA)	2.00	2.38		ng/L		119	56 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.34		ng/L		117	57 - 161
Perfluorononanoic acid (PFNA)	2.00	2.70		ng/L		135	53 - 157
Perfluorodecanoic acid (PFDA)	2.00	2.57		ng/L		129	43 - 158
Perfluoroundecanoic acid (PFUnA)	2.00	2.23		ng/L		112	50 - 155
Perfluorododecanoic acid (PFDoA)	2.00	2.33		ng/L		117	60 - 141
Perfluorotridecanoic acid (PFTrDA)	2.00	2.14		ng/L		107	52 - 140
Perfluorotetradecanoic acid (PFTeDA)	2.00	2.07		ng/L		103	52 - 156
Perfluorobutanesulfonic acid (PFBS)	1.77	2.06		ng/L		117	63 - 145
Perfluoropentanesulfonic acid (PFPeS)	1.88	2.31		ng/L		123	58 - 144
Perfluorohexanesulfonic acid (PFHxS)	1.82	2.07		ng/L		114	44 - 158
Perfluoroheptanesulfonic acid (PFHpS)	1.90	2.18		ng/L		115	51 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	2.64		ng/L		142	43 - 162
Perfluorononanesulfonic acid (PFNS)	1.92	2.38		ng/L		124	46 - 151
Perfluorododecanesulfonic acid (PFDoS)	1.94	1.72	J	ng/L		89	30 - 138
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.47	7.69	J	ng/L		103	52 - 158
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.58	9.81		ng/L		129	48 - 158
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.66	8.85		ng/L		115	46 - 165
Perfluorooctanesulfonamide (PFOSA)	2.00	2.50	I	ng/L		125	47 - 163
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.00	2.82		ng/L		141	54 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.00	2.68		ng/L		134	49 - 156
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.50		ng/L		125	32 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.30		ng/L		115	51 - 154
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	21.9		ng/L		110	56 - 151
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	22.4		ng/L		112	60 - 147
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.00	9.07		ng/L		113	58 - 154
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.54	9.38		ng/L		125	61 - 148

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

Lab Sample ID: LLCS 240-633735/2-A
Matrix: Water
Analysis Batch: 633860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633735

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.73		ng/L		118	49 - 154
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.38		ng/L		109	47 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	7.46	8.22		ng/L		110	44 - 167
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	7.54	7.18	J	ng/L		95	36 - 158
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.56	4.13		ng/L		116	56 - 144
3-Perfluoropropylpropanoic acid (3:3 FTCA)	10.0	10.5		ng/L		105	32 - 161
3-Perfluoropentylpropanoic acid (5:3 FTCA)	50.0	53.0		ng/L		106	39 - 156
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50.0	45.6	J	ng/L		91	36 - 149
Perfluorodecanesulfonic acid (PFDS)	1.93	2.19		ng/L		113	50 - 144
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.46		ng/L		111	48 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*83.3*		*10 - 130*
13C5 PFPeA	*84.8*		*40 - 150*
13C5 PFHxA	*85.2*		*40 - 150*
13C4 PFHpA	*90.1*		*40 - 150*
13C8 PFOA	*85.2*		*30 - 140*
13C9 PFNA	*83.9*		*30 - 140*
13C6 PFDA	*79.9*		*20 - 140*
13C7 PFUnA	*80.1*		*20 - 140*
13C2 PFTeDA	*66.4*		*10 - 130*
13C3 PFBS	*82.9*		*25 - 150*
13C3 PFHxS	*77.8*		*25 - 150*
13C8 PFOS	*75.6*		*20 - 140*
13C8 PFOSA	*69.6*		*10 - 130*
d3-NMeFOSAA	*69.2*		*10 - 200*
d5-NEtFOSAA	*109*		*10 - 200*
M2-4:2 FTS	*99.4*		*25 - 200*
M2-6:2 FTS	*88.9*		*25 - 200*
M2-8:2 FTS	*89.2*		*25 - 200*
13C3 HFPO-DA	*84.9*		*25 - 160*
d7-N-MeFOSE-M	*66.9*		*10 - 150*
d9-N-EtFOSE-M	*63.1*		*10 - 150*
d5-NEtPFOSA	*51.6*		*10 - 130*
D3-NMeFOSA	*52.4*		*10 - 130*
13C2-PFDoDA	*73.2*		*10 - 150*

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

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 633860

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 633735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	17		88.7	133		ng/L		131	58 - 148
Perfluoropentanoic acid (PFPeA)	19		44.3	70.1		ng/L		115	54 - 152
Perfluorohexanoic acid (PFHxA)	18		22.2	44.0		ng/L		116	55 - 152
Perfluoroheptanoic acid (PFHpA)	9.3		22.2	35.4		ng/L		118	54 - 154
Perfluorooctanoic acid (PFOA)	16		22.2	38.8		ng/L		104	52 - 161
Perfluorononanoic acid (PFNA)	1.5	J	22.2	27.9		ng/L		119	59 - 149
Perfluorodecanoic acid (PFDA)	0.81	J	22.2	28.4		ng/L		124	52 - 147
Perfluoroundecanoic acid (PFUnA)	1.7	U	22.2	26.4		ng/L		119	48 - 159
Perfluorododecanoic acid (PFDoA)	1.7	U	22.2	26.3		ng/L		119	64 - 142
Perfluorotridecanoic acid (PFTrDA)	1.7	U	22.2	25.2		ng/L		114	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	1.7	U	22.2	23.9		ng/L		108	47 - 161
Perfluorobutanesulfonic acid (PFBS)	3.1		19.6	25.8		ng/L		116	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	0.50	J	20.8	27.3		ng/L		129	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	2.0		20.2	25.1		ng/L		115	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	1.7	U	21.1	25.3		ng/L		120	55 - 152
Perfluorooctanesulfonic acid (PFOS)	5.2		20.6	31.3		ng/L		127	58 - 149
Perfluorononanesulfonic acid (PFNS)	1.7	U	21.3	25.6		ng/L		120	52 - 148
Perfluorododecanesulfonic acid (PFDoS)	1.7	U	21.5	18.9		ng/L		88	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	6.9	U	82.8	104		ng/L		126	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	6.9	U	84.0	102		ng/L		122	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.9	U	84.9	105		ng/L		124	63 - 152
Perfluorooctanesulfonamide (PFOSA)	1.7	U	22.2	26.0		ng/L		117	61 - 148
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.7	U	22.2	27.0		ng/L		122	63 - 145
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.7	U	22.2	26.6		ng/L		120	65 - 139
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.7	U	22.2	26.8		ng/L		121	58 - 144
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.7	U	22.2	28.2		ng/L		127	59 - 146
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	17	U	222	262		ng/L		118	71 - 136
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	17	U	222	261		ng/L		118	69 - 137
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.9	U	88.7	107		ng/L		121	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.9	U	83.5	105		ng/L		125	68 - 146

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

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 633860

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 633735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.5	U	44.3	52.2		ng/L		118	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.5	U	44.3	47.5		ng/L		107	48 - 161
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	6.9	U	82.6	97.5		ng/L		118	56 - 156
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.9	U	83.5	82.1		ng/L		98	46 - 156
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.5	U	39.5	45.8		ng/L		116	56 - 151
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.6	U	111	113		ng/L		102	62 - 129
3-Perfluoropentylpropanoic acid (5:3 FTCA)	43	U	554	578		ng/L		104	63 - 134
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	43	U	554	483		ng/L		87	50 - 138
Perfluorodecanesulfonic acid (PFDS)	1.7	U	21.4	25.5		ng/L		119	51 - 147
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.5	U	44.3	54.2		ng/L		122	51 - 145

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*88.2*		*10 - 130*
13C5 PFPeA	*79.7*		*35 - 150*
13C5 PFHxA	*80.8*		*55 - 150*
13C4 PFHpA	*83.1*		*55 - 150*
13C8 PFOA	*85.0*		*60 - 140*
13C9 PFNA	*83.5*		*55 - 140*
13C6 PFDA	*79.5*		*50 - 140*
13C7 PFUnA	*82.5*		*30 - 140*
13C2 PFTeDA	*70.3*		*10 - 130*
13C3 PFBS	*94.2*		*55 - 150*
13C3 PFHxS	*80.1*		*55 - 150*
13C8 PFOS	*80.9*		*45 - 140*
13C8 PFOSA	*75.7*		*30 - 130*
d3-NMeFOSAA	*79.1*		*45 - 200*
d5-NEtFOSAA	*75.9*		*10 - 200*
M2-4:2 FTS	*113*		*60 - 200*
M2-6:2 FTS	*93.7*		*60 - 200*
M2-8:2 FTS	*90.9*		*50 - 200*
13C3 HFPO-DA	*76.4*		*25 - 160*
d7-N-MeFOSE-M	*73.3*		*10 - 150*
d9-N-EtFOSE-M	*67.2*		*10 - 150*
d5-NEtPFOSA	*57.6*		*10 - 130*
D3-NMeFOSA	*55.9*		*15 - 130*
13C2-PFDoDA	*78.0*		*10 - 150*

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

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 633860

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 633735

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	17		88.4	133		ng/L		131	58 - 148	0	30
Perfluoropentanoic acid (PFPeA)	19		44.2	71.7		ng/L		119	54 - 152	2	30
Perfluorohexanoic acid (PFHxA)	18		22.1	48.0		ng/L		134	55 - 152	9	30
Perfluoroheptanoic acid (PFHpA)	9.3		22.1	36.6		ng/L		124	54 - 154	3	30
Perfluorooctanoic acid (PFOA)	16		22.1	41.2		ng/L		115	52 - 161	6	30
Perfluorononanoic acid (PFNA)	1.5	J	22.1	27.5		ng/L		118	59 - 149	1	30
Perfluorodecanoic acid (PFDA)	0.81	J	22.1	26.0		ng/L		114	52 - 147	9	30
Perfluoroundecanoic acid (PFUnA)	1.7	U	22.1	24.9		ng/L		112	48 - 159	6	30
Perfluorododecanoic acid (PFDoA)	1.7	U	22.1	26.7		ng/L		121	64 - 142	1	30
Perfluorotridecanoic acid (PFTrDA)	1.7	U	22.1	23.7		ng/L		107	49 - 148	6	30
Perfluorotetradecanoic acid (PFTeDA)	1.7	U	22.1	23.9		ng/L		108	47 - 161	0	30
Perfluorobutanesulfonic acid (PFBS)	3.1		19.5	26.5		ng/L		120	62 - 144	3	30
Perfluoropentanesulfonic acid (PFPeS)	0.50	J	20.7	26.8		ng/L		127	59 - 151	2	30
Perfluorohexanesulfonic acid (PFHxS)	2.0		20.1	24.2		ng/L		110	57 - 146	4	30
Perfluoroheptanesulfonic acid (PFHpS)	1.7	U	21.0	24.4		ng/L		116	55 - 152	3	30
Perfluorooctanesulfonic acid (PFOS)	5.2		20.5	31.4		ng/L		128	58 - 149	0	30
Perfluorononanesulfonic acid (PFNS)	1.7	U	21.2	25.4		ng/L		120	52 - 148	1	30
Perfluorododecanesulfonic acid (PFDoS)	1.7	U	21.4	18.7		ng/L		88	36 - 145	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	6.9	U	82.6	98.5		ng/L		119	67 - 146	6	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	6.9	U	83.8	104		ng/L		124	61 - 151	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.9	U	84.7	104		ng/L		122	63 - 152	2	30
Perfluorooctanesulfonamide (PFOSA)	1.7	U	22.1	26.7		ng/L		121	61 - 148	3	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.7	U	22.1	27.6		ng/L		125	63 - 145	2	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.7	U	22.1	27.1		ng/L		123	65 - 139	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.7	U	22.1	25.6		ng/L		116	58 - 144	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.7	U	22.1	27.3		ng/L		124	59 - 146	3	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	17	U	221	270		ng/L		122	71 - 136	3	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	17	U	221	264		ng/L		119	69 - 137	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.9	U	88.4	110		ng/L		124	63 - 144	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.9	U	83.3	108		ng/L		129	68 - 146	3	30

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

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 633860

Client Sample ID: RI MW-3
Prep Type: Total/NA
Prep Batch: 633735

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.5	U	44.2	52.8		ng/L		119	55 - 148	1	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.5	U	44.2	48.0		ng/L		109	48 - 161	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	6.9	U	82.4	95.6		ng/L		116	56 - 156	2	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.9	U	83.3	79.6		ng/L		96	46 - 156	3	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.5	U	39.3	46.5		ng/L		118	56 - 151	1	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.6	U	111	112		ng/L		101	62 - 129	1	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	43	U	553	600		ng/L		109	63 - 134	4	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	43	U	553	489		ng/L		88	50 - 138	1	30
Perfluorodecanesulfonic acid (PFDS)	1.7	U	21.3	23.6		ng/L		111	51 - 147	8	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.5	U	44.2	52.8		ng/L		120	51 - 145	3	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*90.0*		*10 - 130*
13C5 PFPeA	*80.0*		*35 - 150*
13C5 PFHxA	*80.2*		*55 - 150*
13C4 PFHpA	*86.9*		*55 - 150*
13C8 PFOA	*87.1*		*60 - 140*
13C9 PFNA	*88.0*		*55 - 140*
13C6 PFDA	*80.5*		*50 - 140*
13C7 PFUnA	*78.3*		*30 - 140*
13C2 PFTeDA	*66.8*		*10 - 130*
13C3 PFBS	*95.5*		*55 - 150*
13C3 PFHxS	*84.6*		*55 - 150*
13C8 PFOS	*80.5*		*45 - 140*
13C8 PFOSA	*71.5*		*30 - 130*
d3-NMeFOSAA	*76.6*		*45 - 200*
d5-NEtFOSAA	*75.1*		*10 - 200*
M2-4:2 FTS	*118*		*60 - 200*
M2-6:2 FTS	*93.7*		*60 - 200*
M2-8:2 FTS	*92.4*		*50 - 200*
13C3 HFPO-DA	*77.0*		*25 - 160*
d7-N-MeFOSE-M	*68.9*		*10 - 150*
d9-N-EtFOSE-M	*63.6*		*10 - 150*
d5-NEtPFOSA	*51.8*		*10 - 130*
D3-NMeFOSA	*53.2*		*15 - 130*
13C2-PFDoDA	*75.5*		*10 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-730616/1-B
Matrix: Water
Analysis Batch: 731161

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 730665

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.20	U	0.20	0.060	mg/L		11/01/24 08:53	11/04/24 15:24	1
Antimony	0.020	U	0.020	0.0068	mg/L		11/01/24 08:53	11/04/24 15:24	1
Arsenic	0.015	U	0.015	0.0056	mg/L		11/01/24 08:53	11/04/24 15:24	1
Barium	0.0020	U	0.0020	0.00070	mg/L		11/01/24 08:53	11/04/24 15:24	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		11/01/24 08:53	11/04/24 15:24	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		11/01/24 08:53	11/04/24 15:24	1
Calcium	0.50	U	0.50	0.10	mg/L		11/01/24 08:53	11/04/24 15:24	1
Chromium	0.0040	U	0.0040	0.0010	mg/L		11/01/24 08:53	11/04/24 15:24	1
Cobalt	0.0040	U	0.0040	0.00063	mg/L		11/01/24 08:53	11/04/24 15:24	1
Copper	0.010	U	0.010	0.0016	mg/L		11/01/24 08:53	11/04/24 15:24	1
Iron	0.050	U	0.050	0.019	mg/L		11/01/24 08:53	11/04/24 15:24	1
Lead	0.010	U	0.010	0.0030	mg/L		11/01/24 08:53	11/04/24 15:24	1
Magnesium	0.20	U	0.20	0.043	mg/L		11/01/24 08:53	11/04/24 15:24	1
Manganese	0.000733	J	0.0030	0.00040	mg/L		11/01/24 08:53	11/04/24 15:24	1
Nickel	0.010	U	0.010	0.0013	mg/L		11/01/24 08:53	11/04/24 15:24	1
Potassium	0.50	U	0.50	0.10	mg/L		11/01/24 08:53	11/04/24 15:24	1
Selenium	0.025	U	0.025	0.0087	mg/L		11/01/24 08:53	11/04/24 15:24	1
Silver	0.0060	U	0.0060	0.0017	mg/L		11/01/24 08:53	11/04/24 15:24	1
Sodium	1.0	U	1.0	0.32	mg/L		11/01/24 08:53	11/04/24 15:24	1
Thallium	0.020	U	0.020	0.010	mg/L		11/01/24 08:53	11/04/24 15:24	1
Vanadium	0.0050	U	0.0050	0.0015	mg/L		11/01/24 08:53	11/04/24 15:24	1
Zinc	0.00921	J	0.010	0.0015	mg/L		11/01/24 08:53	11/04/24 15:24	1

Lab Sample ID: LCS 480-730616/2-B
Matrix: Water
Analysis Batch: 731161

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 730665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.10	5.24		mg/L		103	80 - 120
Antimony	0.500	0.526		mg/L		105	80 - 120
Arsenic	1.00	0.988		mg/L		99	80 - 120
Barium	1.00	1.06		mg/L		106	80 - 120
Beryllium	0.500	0.539		mg/L		108	80 - 120
Cadmium	0.500	0.519		mg/L		104	80 - 120
Calcium	25.0	26.45		mg/L		106	80 - 120
Chromium	0.500	0.537		mg/L		107	80 - 120
Cobalt	0.500	0.537		mg/L		107	80 - 120
Copper	0.500	0.521		mg/L		104	80 - 120
Iron	5.10	5.77		mg/L		113	80 - 120
Lead	0.500	0.530		mg/L		106	80 - 120
Magnesium	25.0	25.22		mg/L		101	80 - 120
Manganese	0.500	0.519		mg/L		104	80 - 120
Nickel	0.500	0.553		mg/L		111	80 - 120
Potassium	25.0	26.35		mg/L		105	80 - 120
Selenium	1.00	0.966		mg/L		97	80 - 120
Silver	0.0500	0.0518		mg/L		104	80 - 120
Sodium	25.0	26.61		mg/L		106	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120
Vanadium	0.500	0.543		mg/L		109	80 - 120

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

Lab Sample ID: LCS 480-730616/2-B
Matrix: Water
Analysis Batch: 731161

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 730665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.540		mg/L		108	80 - 120

Lab Sample ID: LCSD 480-730616/3-B
Matrix: Water
Analysis Batch: 731161

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 730665

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	5.10	5.17		mg/L		101	80 - 120	1	20
Antimony	0.500	0.514		mg/L		103	80 - 120	2	20
Arsenic	1.00	0.965		mg/L		96	80 - 120	2	20
Barium	1.00	1.03		mg/L		103	80 - 120	2	20
Beryllium	0.500	0.528		mg/L		106	80 - 120	2	20
Cadmium	0.500	0.508		mg/L		102	80 - 120	2	20
Calcium	25.0	26.10		mg/L		104	80 - 120	1	20
Chromium	0.500	0.524		mg/L		105	80 - 120	2	20
Cobalt	0.500	0.525		mg/L		105	80 - 120	2	20
Copper	0.500	0.508		mg/L		102	80 - 120	3	20
Iron	5.10	5.68		mg/L		111	80 - 120	2	20
Lead	0.500	0.520		mg/L		104	80 - 120	2	20
Magnesium	25.0	24.86		mg/L		99	80 - 120	1	20
Manganese	0.500	0.507		mg/L		101	80 - 120	2	20
Nickel	0.500	0.540		mg/L		108	80 - 120	2	20
Potassium	25.0	26.01		mg/L		104	80 - 120	1	20
Selenium	1.00	0.946		mg/L		95	80 - 120	2	20
Silver	0.0500	0.0505		mg/L		101	80 - 120	2	20
Sodium	25.0	26.17		mg/L		105	80 - 120	2	20
Thallium	1.00	0.984		mg/L		98	80 - 120	2	20
Vanadium	0.500	0.529		mg/L		106	80 - 120	2	20
Zinc	0.500	0.524		mg/L		105	80 - 120	3	20

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 731161

Client Sample ID: RI MW-3
Prep Type: Dissolved
Prep Batch: 730665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.20	U	5.10	5.24		mg/L		103	75 - 125
Antimony	0.020	U	0.500	0.517		mg/L		103	75 - 125
Arsenic	0.015	U	1.00	0.991		mg/L		99	75 - 125
Barium	0.050		1.00	1.08		mg/L		103	75 - 125
Beryllium	0.0020	U	0.500	0.530		mg/L		106	75 - 125
Cadmium	0.0044		0.500	0.530		mg/L		105	75 - 125
Calcium	120		25.0	142.0	4	mg/L		90	75 - 125
Chromium	0.0019	J	0.500	0.515		mg/L		103	75 - 125
Cobalt	0.00089	J	0.500	0.529		mg/L		106	75 - 125
Copper	0.010	U	0.500	0.549		mg/L		110	75 - 125
Iron	0.050	U	5.10	5.62		mg/L		110	75 - 125
Lead	0.010	U	0.500	0.533		mg/L		107	75 - 125
Magnesium	33.1		25.0	57.64		mg/L		98	75 - 125
Manganese	0.0025	J B	0.500	0.509		mg/L		101	75 - 125

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

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 731161

Client Sample ID: RI MW-3
Prep Type: Dissolved
Prep Batch: 730665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.0027	J	0.500	0.543		mg/L		108	75 - 125
Potassium	19.1		25.0	46.17		mg/L		108	75 - 125
Selenium	0.025	U	1.00	0.997		mg/L		100	75 - 125
Silver	0.0060	U	0.0500	0.0526		mg/L		105	75 - 125
Sodium	267		25.0	298.5	4	mg/L		125	75 - 125
Thallium	0.020	U	1.00	1.03		mg/L		103	75 - 125
Vanadium	0.0050	U	0.500	0.530		mg/L		106	75 - 125
Zinc	1.4	B F1	0.500	1.95		mg/L		111	75 - 125

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 731161

Client Sample ID: RI MW-3
Prep Type: Dissolved
Prep Batch: 730665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	0.20	U	5.10	5.30		mg/L		104	75 - 125	1	20
Antimony	0.020	U	0.500	0.518		mg/L		104	75 - 125	0	20
Arsenic	0.015	U	1.00	0.986		mg/L		99	75 - 125	1	20
Barium	0.050		1.00	1.07		mg/L		102	75 - 125	1	20
Beryllium	0.0020	U	0.500	0.527		mg/L		105	75 - 125	1	20
Cadmium	0.0044		0.500	0.526		mg/L		104	75 - 125	1	20
Calcium	120		25.0	141.3	4	mg/L		87	75 - 125	1	20
Chromium	0.0019	J	0.500	0.511		mg/L		102	75 - 125	1	20
Cobalt	0.00089	J	0.500	0.526		mg/L		105	75 - 125	1	20
Copper	0.010	U	0.500	0.547		mg/L		109	75 - 125	0	20
Iron	0.050	U	5.10	5.66		mg/L		111	75 - 125	1	20
Lead	0.010	U	0.500	0.533		mg/L		107	75 - 125	0	20
Magnesium	33.1		25.0	57.42		mg/L		97	75 - 125	0	20
Manganese	0.0025	J B	0.500	0.510		mg/L		101	75 - 125	0	20
Nickel	0.0027	J	0.500	0.540		mg/L		107	75 - 125	1	20
Potassium	19.1		25.0	46.78		mg/L		111	75 - 125	1	20
Selenium	0.025	U	1.00	0.986		mg/L		99	75 - 125	1	20
Silver	0.0060	U	0.0500	0.0528		mg/L		106	75 - 125	0	20
Sodium	267		25.0	306.6	4	mg/L		157	75 - 125	3	20
Thallium	0.020	U	1.00	1.02		mg/L		102	75 - 125	1	20
Vanadium	0.0050	U	0.500	0.526		mg/L		105	75 - 125	1	20
Zinc	1.4	B F1	0.500	2.04	F1	mg/L		129	75 - 125	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-730616/1-C
Matrix: Water
Analysis Batch: 730893

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 730668

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000042	mg/L		11/01/24 11:02	11/01/24 15:02	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-730616/2-C
Matrix: Water
Analysis Batch: 730893
Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 730668

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00669	0.00646		mg/L		97	80 - 120		

Lab Sample ID: LCSD 480-730616/3-C
Matrix: Water
Analysis Batch: 730893
Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 730668

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00669	0.00624		mg/L		93	80 - 120	4	20

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 730893
Client Sample ID: RI MW-3
Prep Type: Dissolved
Prep Batch: 730668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.00020	U	0.00669	0.00608		mg/L		91	80 - 120		

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 730893
Client Sample ID: RI MW-3
Prep Type: Dissolved
Prep Batch: 730668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00020	U	0.00669	0.00601		mg/L		90	80 - 120	1	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-731224/21
Matrix: Water
Analysis Batch: 731224
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0041	mg/L			11/05/24 07:41	1

Lab Sample ID: MB 480-731224/47
Matrix: Water
Analysis Batch: 731224
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0041	mg/L			11/05/24 09:09	1

Lab Sample ID: HLCS 480-731224/22
Matrix: Water
Analysis Batch: 731224
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.403		mg/L		101	90 - 110		

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 480-731224/23
Matrix: Water
Analysis Batch: 731224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.251		mg/L		100	90 - 110

Lab Sample ID: LCS 480-731224/48
Matrix: Water
Analysis Batch: 731224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.244		mg/L		98	90 - 110

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 731224

Client Sample ID: RI MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0041	J	0.100	0.0967		mg/L		93	90 - 110

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 731224

Client Sample ID: RI MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.0041	J	0.100	0.100		mg/L		96	90 - 110	4	15

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-730586/3
Matrix: Water
Analysis Batch: 730586

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.010	U	0.010	0.0050	mg/L			10/31/24 07:59	1

Lab Sample ID: LCS 480-730586/4
Matrix: Water
Analysis Batch: 730586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.0500	0.0509		mg/L		102	85 - 115

Lab Sample ID: 480-224998-1 MS
Matrix: Water
Analysis Batch: 730586

Client Sample ID: RI MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.010	U	0.0500	0.0521		mg/L		104	85 - 115

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 480-224998-1 MSD
Matrix: Water
Analysis Batch: 730586

Client Sample ID: RI MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.010	U	0.0500	0.0521		mg/L		104	85 - 115	0	20

GC/MS VOA

Analysis Batch: 730795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-2	RI MW-3 DUP	Total/NA	Water	8260C	
480-224998-3	RI MW-1	Total/NA	Water	8260C	
480-224998-4	RI MW-2	Total/NA	Water	8260C	
MB 480-730795/8	Method Blank	Total/NA	Water	8260C	
LCS 480-730795/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 730914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	8260C	
MB 480-730914/8	Method Blank	Total/NA	Water	8260C	
LCS 480-730914/6	Lab Control Sample	Total/NA	Water	8260C	
480-224998-1 MS	RI MW-3	Total/NA	Water	8260C	
480-224998-1 MSD	RI MW-3	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 730679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	3510C	
480-224998-2	RI MW-3 DUP	Total/NA	Water	3510C	
480-224998-3	RI MW-1	Total/NA	Water	3510C	
480-224998-4	RI MW-2	Total/NA	Water	3510C	
MB 480-730679/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-730679/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-224998-1 MS	RI MW-3	Total/NA	Water	3510C	
480-224998-1 MSD	RI MW-3	Total/NA	Water	3510C	

Prep Batch: 730680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	3510C	
480-224998-2	RI MW-3 DUP	Total/NA	Water	3510C	
480-224998-3	RI MW-1	Total/NA	Water	3510C	
480-224998-4	RI MW-2	Total/NA	Water	3510C	
MB 480-730680/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-730680/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-224998-1 MS	RI MW-3	Total/NA	Water	3510C	
480-224998-1 MSD	RI MW-3	Total/NA	Water	3510C	

Analysis Batch: 730784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	8270D SIM ID	730679
480-224998-2	RI MW-3 DUP	Total/NA	Water	8270D SIM ID	730679
480-224998-3	RI MW-1	Total/NA	Water	8270D SIM ID	730679
480-224998-4	RI MW-2	Total/NA	Water	8270D SIM ID	730679
MB 480-730679/1-A	Method Blank	Total/NA	Water	8270D SIM ID	730679
LCS 480-730679/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	730679
480-224998-1 MS	RI MW-3	Total/NA	Water	8270D SIM ID	730679
480-224998-1 MSD	RI MW-3	Total/NA	Water	8270D SIM ID	730679

GC/MS Semi VOA

Analysis Batch: 730787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	8270D	730680
MB 480-730680/1-A	Method Blank	Total/NA	Water	8270D	730680
480-224998-1 MS	RI MW-3	Total/NA	Water	8270D	730680
480-224998-1 MSD	RI MW-3	Total/NA	Water	8270D	730680

Analysis Batch: 731032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-2	RI MW-3 DUP	Total/NA	Water	8270D	730680
480-224998-3	RI MW-1	Total/NA	Water	8270D	730680
480-224998-4	RI MW-2	Total/NA	Water	8270D	730680

Analysis Batch: 731333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-730680/2-A	Lab Control Sample	Total/NA	Water	8270D	730680

GC Semi VOA

Prep Batch: 731060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	8151A	
480-224998-2	RI MW-3 DUP	Total/NA	Water	8151A	
480-224998-3	RI MW-1	Total/NA	Water	8151A	
480-224998-4	RI MW-2	Total/NA	Water	8151A	
MB 480-731060/1-A	Method Blank	Total/NA	Water	8151A	
LCS 480-731060/2-A	Lab Control Sample	Total/NA	Water	8151A	
480-224998-1 MS	RI MW-3	Total/NA	Water	8151A	
480-224998-1 MSD	RI MW-3	Total/NA	Water	8151A	

Prep Batch: 731202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	3510C	
480-224998-2	RI MW-3 DUP	Total/NA	Water	3510C	
480-224998-3	RI MW-1	Total/NA	Water	3510C	
480-224998-4	RI MW-2	Total/NA	Water	3510C	
MB 480-731202/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-731202/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-224998-1 MS	RI MW-3	Total/NA	Water	3510C	
480-224998-1 MSD	RI MW-3	Total/NA	Water	3510C	

Analysis Batch: 731215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	8151A	731060
480-224998-2	RI MW-3 DUP	Total/NA	Water	8151A	731060
480-224998-3	RI MW-1	Total/NA	Water	8151A	731060
480-224998-4	RI MW-2	Total/NA	Water	8151A	731060
MB 480-731060/1-A	Method Blank	Total/NA	Water	8151A	731060
LCS 480-731060/2-A	Lab Control Sample	Total/NA	Water	8151A	731060
480-224998-1 MS	RI MW-3	Total/NA	Water	8151A	731060
480-224998-1 MSD	RI MW-3	Total/NA	Water	8151A	731060

GC Semi VOA

Analysis Batch: 731303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	8081B	731202
480-224998-2	RI MW-3 DUP	Total/NA	Water	8081B	731202
480-224998-3	RI MW-1	Total/NA	Water	8081B	731202
480-224998-4	RI MW-2	Total/NA	Water	8081B	731202
MB 480-731202/1-A	Method Blank	Total/NA	Water	8081B	731202
LCS 480-731202/2-A	Lab Control Sample	Total/NA	Water	8081B	731202
480-224998-1 MS	RI MW-3	Total/NA	Water	8081B	731202
480-224998-1 MSD	RI MW-3	Total/NA	Water	8081B	731202

Prep Batch: 731490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	3510C	
480-224998-2	RI MW-3 DUP	Total/NA	Water	3510C	
480-224998-3	RI MW-1	Total/NA	Water	3510C	
480-224998-4	RI MW-2	Total/NA	Water	3510C	
MB 480-731490/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-731490/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-224998-1 MS	RI MW-3	Total/NA	Water	3510C	
480-224998-1 MSD	RI MW-3	Total/NA	Water	3510C	

Analysis Batch: 731518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	8082A	731490
480-224998-2	RI MW-3 DUP	Total/NA	Water	8082A	731490
480-224998-4	RI MW-2	Total/NA	Water	8082A	731490
MB 480-731490/1-A	Method Blank	Total/NA	Water	8082A	731490
LCS 480-731490/2-A	Lab Control Sample	Total/NA	Water	8082A	731490
480-224998-1 MS	RI MW-3	Total/NA	Water	8082A	731490
480-224998-1 MSD	RI MW-3	Total/NA	Water	8082A	731490

Analysis Batch: 731621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-3	RI MW-1	Total/NA	Water	8082A	731490

LCMS

Prep Batch: 633735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	1633	
480-224998-2	RI MW-3 DUP	Total/NA	Water	1633	
480-224998-3	RI MW-1	Total/NA	Water	1633	
480-224998-4	RI MW-2	Total/NA	Water	1633	
MB 240-633735/1-A	Method Blank	Total/NA	Water	1633	
LCS 240-633735/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 240-633735/2-A	Lab Control Sample	Total/NA	Water	1633	
480-224998-1 MS	RI MW-3	Total/NA	Water	1633	
480-224998-1 MSD	RI MW-3	Total/NA	Water	1633	

Analysis Batch: 633860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	1633	633735

LCMS (Continued)

Analysis Batch: 633860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-2	RI MW-3 DUP	Total/NA	Water	1633	633735
480-224998-3	RI MW-1	Total/NA	Water	1633	633735
480-224998-4	RI MW-2	Total/NA	Water	1633	633735
MB 240-633735/1-A	Method Blank	Total/NA	Water	1633	633735
LCS 240-633735/3-A	Lab Control Sample	Total/NA	Water	1633	633735
LLCS 240-633735/2-A	Lab Control Sample	Total/NA	Water	1633	633735
480-224998-1 MS	RI MW-3	Total/NA	Water	1633	633735
480-224998-1 MSD	RI MW-3	Total/NA	Water	1633	633735

Metals

Filtration Batch: 730616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Dissolved	Water	FILTRATION	
480-224998-2	RI MW-3 DUP	Dissolved	Water	FILTRATION	
480-224998-3	RI MW-1	Dissolved	Water	FILTRATION	
480-224998-4	RI MW-2	Dissolved	Water	FILTRATION	
MB 480-730616/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-730616/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-730616/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-730616/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 480-730616/3-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
LCSD 480-730616/3-C	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
480-224998-1 MS	RI MW-3	Dissolved	Water	FILTRATION	
480-224998-1 MSD	RI MW-3	Dissolved	Water	FILTRATION	

Prep Batch: 730665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Dissolved	Water	3005A	730616
480-224998-2	RI MW-3 DUP	Dissolved	Water	3005A	730616
480-224998-3	RI MW-1	Dissolved	Water	3005A	730616
480-224998-4	RI MW-2	Dissolved	Water	3005A	730616
MB 480-730616/1-B	Method Blank	Dissolved	Water	3005A	730616
LCS 480-730616/2-B	Lab Control Sample	Dissolved	Water	3005A	730616
LCSD 480-730616/3-B	Lab Control Sample Dup	Dissolved	Water	3005A	730616
480-224998-1 MS	RI MW-3	Dissolved	Water	3005A	730616
480-224998-1 MSD	RI MW-3	Dissolved	Water	3005A	730616

Prep Batch: 730668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Dissolved	Water	7470A	730616
480-224998-2	RI MW-3 DUP	Dissolved	Water	7470A	730616
480-224998-3	RI MW-1	Dissolved	Water	7470A	730616
480-224998-4	RI MW-2	Dissolved	Water	7470A	730616
MB 480-730616/1-C	Method Blank	Dissolved	Water	7470A	730616
LCS 480-730616/2-C	Lab Control Sample	Dissolved	Water	7470A	730616
LCSD 480-730616/3-C	Lab Control Sample Dup	Dissolved	Water	7470A	730616
480-224998-1 MS	RI MW-3	Dissolved	Water	7470A	730616
480-224998-1 MSD	RI MW-3	Dissolved	Water	7470A	730616

Metals

Analysis Batch: 730893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Dissolved	Water	7470A	730668
480-224998-2	RI MW-3 DUP	Dissolved	Water	7470A	730668
480-224998-3	RI MW-1	Dissolved	Water	7470A	730668
480-224998-4	RI MW-2	Dissolved	Water	7470A	730668
MB 480-730616/1-C	Method Blank	Dissolved	Water	7470A	730668
LCS 480-730616/2-C	Lab Control Sample	Dissolved	Water	7470A	730668
LCSD 480-730616/3-C	Lab Control Sample Dup	Dissolved	Water	7470A	730668
480-224998-1 MS	RI MW-3	Dissolved	Water	7470A	730668
480-224998-1 MSD	RI MW-3	Dissolved	Water	7470A	730668

Analysis Batch: 731161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Dissolved	Water	6010C	730665
480-224998-2	RI MW-3 DUP	Dissolved	Water	6010C	730665
480-224998-3	RI MW-1	Dissolved	Water	6010C	730665
480-224998-4	RI MW-2	Dissolved	Water	6010C	730665
MB 480-730616/1-B	Method Blank	Dissolved	Water	6010C	730665
LCS 480-730616/2-B	Lab Control Sample	Dissolved	Water	6010C	730665
LCSD 480-730616/3-B	Lab Control Sample Dup	Dissolved	Water	6010C	730665
480-224998-1 MS	RI MW-3	Dissolved	Water	6010C	730665
480-224998-1 MSD	RI MW-3	Dissolved	Water	6010C	730665

General Chemistry

Analysis Batch: 730586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	7196A	
480-224998-2	RI MW-3 DUP	Total/NA	Water	7196A	
480-224998-3	RI MW-1	Total/NA	Water	7196A	
480-224998-4	RI MW-2	Total/NA	Water	7196A	
MB 480-730586/3	Method Blank	Total/NA	Water	7196A	
LCS 480-730586/4	Lab Control Sample	Total/NA	Water	7196A	
480-224998-1 MS	RI MW-3	Total/NA	Water	7196A	
480-224998-1 MSD	RI MW-3	Total/NA	Water	7196A	

Analysis Batch: 731224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224998-1	RI MW-3	Total/NA	Water	335.4	
480-224998-2	RI MW-3 DUP	Total/NA	Water	335.4	
480-224998-3	RI MW-1	Total/NA	Water	335.4	
480-224998-4	RI MW-2	Total/NA	Water	335.4	
MB 480-731224/21	Method Blank	Total/NA	Water	335.4	
MB 480-731224/47	Method Blank	Total/NA	Water	335.4	
HLCS 480-731224/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-731224/23	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-731224/48	Lab Control Sample	Total/NA	Water	335.4	
480-224998-1 MS	RI MW-3	Total/NA	Water	335.4	
480-224998-1 MSD	RI MW-3	Total/NA	Water	335.4	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

Client Sample ID: RI MW-3
Lab Sample ID: 480-224998-1
Date Collected: 10/30/24 09:30
Matrix: Water
Date Received: 10/30/24 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730914	AXK	EET BUF	11/02/24 18:54
Total/NA	Prep	3510C			730680	LSC	EET BUF	10/31/24 13:59
Total/NA	Analysis	8270D		1	730787	JMM	EET BUF	11/01/24 15:06
Total/NA	Prep	3510C			730679	LSC	EET BUF	10/31/24 13:53
Total/NA	Analysis	8270D SIM ID		1	730784	JMM	EET BUF	11/01/24 12:44
Total/NA	Prep	3510C			731202	JMP	EET BUF	11/05/24 09:19
Total/NA	Analysis	8081B		1	731303	JLS	EET BUF	11/06/24 10:24
Total/NA	Prep	3510C			731490	JMP	EET BUF	11/07/24 09:15
Total/NA	Analysis	8082A		1	731518	W1T	EET BUF	11/07/24 15:56
Total/NA	Prep	8151A			731060	JMP	EET BUF	11/04/24 09:29
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 19:23
Total/NA	Prep	1633			633735	KML	EET CLE	11/04/24 07:45
Total/NA	Analysis	1633		1	633860	DSH	EET CLE	11/04/24 18:55
Dissolved	Filtration	FILTRATION			730616	EMO	EET BUF	10/31/24 09:42
Dissolved	Prep	3005A			730665	EMO	EET BUF	11/01/24 08:53
Dissolved	Analysis	6010C		1	731161	BMB	EET BUF	11/04/24 15:30
Dissolved	Filtration	FILTRATION			730616	EMO	EET BUF	10/31/24 09:42
Dissolved	Prep	7470A			730668	ESB	EET BUF	11/01/24 11:02
Dissolved	Analysis	7470A		1	730893	ESB	EET BUF	11/01/24 15:10
Total/NA	Analysis	335.4		1	731224	CLT	EET BUF	11/05/24 09:14
Total/NA	Analysis	7196A		1	730586	KM	EET BUF	10/31/24 07:59

Client Sample ID: RI MW-3 DUP
Lab Sample ID: 480-224998-2
Date Collected: 10/30/24 10:30
Matrix: Water
Date Received: 10/30/24 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730795	ZN	EET BUF	11/01/24 14:32
Total/NA	Prep	3510C			730680	LSC	EET BUF	10/31/24 13:59
Total/NA	Analysis	8270D		1	731032	JMM	EET BUF	11/04/24 14:11
Total/NA	Prep	3510C			730679	LSC	EET BUF	10/31/24 13:53
Total/NA	Analysis	8270D SIM ID		1	730784	JMM	EET BUF	11/01/24 13:26
Total/NA	Prep	3510C			731202	JMP	EET BUF	11/05/24 09:19
Total/NA	Analysis	8081B		1	731303	JLS	EET BUF	11/06/24 10:44
Total/NA	Prep	3510C			731490	JMP	EET BUF	11/07/24 09:15
Total/NA	Analysis	8082A		1	731518	W1T	EET BUF	11/07/24 16:14
Total/NA	Prep	8151A			731060	JMP	EET BUF	11/04/24 09:29
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 19:42
Total/NA	Prep	1633			633735	KML	EET CLE	11/04/24 07:45
Total/NA	Analysis	1633		1	633860	DSH	EET CLE	11/04/24 20:18
Dissolved	Filtration	FILTRATION			730616	EMO	EET BUF	10/31/24 09:42
Dissolved	Prep	3005A			730665	EMO	EET BUF	11/01/24 08:53
Dissolved	Analysis	6010C		1	731161	BMB	EET BUF	11/04/24 15:40

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

Client Sample ID: RI MW-3 DUP
Lab Sample ID: 480-224998-2
Date Collected: 10/30/24 10:30
Matrix: Water
Date Received: 10/30/24 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Filtration	FILTRATION			730616	EMO	EET BUF	10/31/24 09:42
Dissolved	Prep	7470A			730668	ESB	EET BUF	11/01/24 11:02
Dissolved	Analysis	7470A		1	730893	ESB	EET BUF	11/01/24 15:15
Total/NA	Analysis	335.4		1	731224	CLT	EET BUF	11/05/24 09:24
Total/NA	Analysis	7196A		1	730586	KM	EET BUF	10/31/24 07:59

Client Sample ID: RI MW-1
Lab Sample ID: 480-224998-3
Date Collected: 10/30/24 13:00
Matrix: Water
Date Received: 10/30/24 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730795	ZN	EET BUF	11/01/24 14:55
Total/NA	Prep	3510C			730680	LSC	EET BUF	10/31/24 13:59
Total/NA	Analysis	8270D		1	731032	JMM	EET BUF	11/04/24 14:39
Total/NA	Prep	3510C			730679	LSC	EET BUF	10/31/24 13:53
Total/NA	Analysis	8270D SIM ID		1	730784	JMM	EET BUF	11/01/24 13:47
Total/NA	Prep	3510C			731202	JMP	EET BUF	11/05/24 09:19
Total/NA	Analysis	8081B		1	731303	JLS	EET BUF	11/06/24 11:03
Total/NA	Prep	3510C			731490	JMP	EET BUF	11/07/24 09:15
Total/NA	Analysis	8082A		1	731621	H9RU	EET BUF	11/08/24 10:04
Total/NA	Prep	8151A			731060	JMP	EET BUF	11/04/24 09:29
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 20:00
Total/NA	Prep	1633			633735	KML	EET CLE	11/04/24 07:45
Total/NA	Analysis	1633		1	633860	DSH	EET CLE	11/04/24 20:35
Dissolved	Filtration	FILTRATION			730616	EMO	EET BUF	10/31/24 09:42
Dissolved	Prep	3005A			730665	EMO	EET BUF	11/01/24 08:53
Dissolved	Analysis	6010C		1	731161	BMB	EET BUF	11/04/24 15:51
Dissolved	Filtration	FILTRATION			730616	EMO	EET BUF	10/31/24 09:42
Dissolved	Prep	7470A			730668	ESB	EET BUF	11/01/24 11:02
Dissolved	Analysis	7470A		1	730893	ESB	EET BUF	11/01/24 15:17
Total/NA	Analysis	335.4		1	731224	CLT	EET BUF	11/05/24 09:27
Total/NA	Analysis	7196A		1	730586	KM	EET BUF	10/31/24 07:59

Client Sample ID: RI MW-2
Lab Sample ID: 480-224998-4
Date Collected: 10/30/24 14:00
Matrix: Water
Date Received: 10/30/24 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730795	ZN	EET BUF	11/01/24 15:18
Total/NA	Prep	3510C			730680	LSC	EET BUF	10/31/24 13:59
Total/NA	Analysis	8270D		1	731032	JMM	EET BUF	11/04/24 15:07
Total/NA	Prep	3510C			730679	LSC	EET BUF	10/31/24 13:53
Total/NA	Analysis	8270D SIM ID		1	730784	JMM	EET BUF	11/01/24 14:09
Total/NA	Prep	3510C			731202	JMP	EET BUF	11/05/24 09:19
Total/NA	Analysis	8081B		1	731303	JLS	EET BUF	11/06/24 11:23

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

Client Sample ID: RI MW-2
Lab Sample ID: 480-224998-4

Date Collected: 10/30/24 14:00
Matrix: Water

Date Received: 10/30/24 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			731490	JMP	EET BUF	11/07/24 09:15
Total/NA	Analysis	8082A		1	731518	W1T	EET BUF	11/07/24 16:51
Total/NA	Prep	8151A			731060	JMP	EET BUF	11/04/24 09:29
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 20:19
Total/NA	Prep	1633			633735	KML	EET CLE	11/04/24 07:45
Total/NA	Analysis	1633		1	633860	DSH	EET CLE	11/04/24 20:51
Dissolved	Filtration	FILTRATION			730616	EMO	EET BUF	10/31/24 09:42
Dissolved	Prep	3005A			730665	EMO	EET BUF	11/01/24 08:53
Dissolved	Analysis	6010C		1	731161	BMB	EET BUF	11/04/24 15:53
Dissolved	Filtration	FILTRATION			730616	EMO	EET BUF	10/31/24 09:42
Dissolved	Prep	7470A			730668	ESB	EET BUF	11/01/24 11:02
Dissolved	Analysis	7470A		1	730893	ESB	EET BUF	11/01/24 15:18
Total/NA	Analysis	335.4		1	731224	CLT	EET BUF	11/05/24 09:31
Total/NA	Analysis	7196A		1	730586	KM	EET BUF	10/31/24 07:59

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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

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
335.4		Water	Cyanide, Total

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
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
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	12-31-24

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

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
7470A	Mercury (CVAA)	SW846	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
7196A	Chromium, Hexavalent	SW846	EET BUF
1633	Solid-Phase Extraction (SPE)	EPA	EET CLE
3005A	Preparation, Total Recoverable or Dissolved 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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224998-1	RI MW-3	Water	10/30/24 09:30	10/30/24 15:55
480-224998-2	RI MW-3 DUP	Water	10/30/24 10:30	10/30/24 15:55
480-224998-3	RI MW-1	Water	10/30/24 13:00	10/30/24 15:55
480-224998-4	RI MW-2	Water	10/30/24 14:00	10/30/24 15:55

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
Client Contact: Jacob Cox
Company: Brydges Engineering in Environment & Energy DPC
Address: 960 Busti Ave Suite B-150
City: Buffalo
State, Zip: NY, 14213
Phone:
Email: jcox@be3corp.com
Project Name: The Nest Site GW Analysis
Site: Nest

Sampler: Jacob Cox
Phone: 716 418 6192
PWSID:
Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes Δ No
PO #: Purchase Order not required
WO #:
Project #: 48028073
SSOW#:

Lab PM: Beninati, John
E-Mail: John.Beninati@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:

COC No: 480-199808-41206.1
Page: Page 1 of 1
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)	1633 - 1633 Standard List of 40	8082A - 8082A-DER-10 PCBs	8081B - 8081B-DER-10 Pesticides	8270D - TCL SVOCs	8270D_SIM_MS_ID - 1,4 Dioxane	8260C - TCL + CP-51 VOCs + TICs	8151A - Herbicides - Silvex	6010C, 7470A	Hex Chromium	Cyanide Total (Preserved)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	A	N	N				
RI MW-3	10/30	9:30	G	Water	N		X	X	X	X	X	X	X	X	X	X		NTU < 50
RI MW-3 DUP	10/30	10:30	G	Water	N		X	X	X	X	X	X	X	X	X	X		NTU < 50 Duplicate
RI MW-3 MS	10/30	11:00	G	Water	N	Y	X	X	X	X	X	X	X	X	X	X		NTU < 50 Mat. Spike
RI MW-3 MSD	10/30	12:00	G	Water	N	Y	X	X	X	X	X	X	X	X	X	X		NTU < 50 Mat spike dup.
RI MW-1	10/30	1300	G	Water	N		X	X	X	X	X	X	X	X	X	X		NTU < 50
RI MW-2	10/30	1400	G	Water	N		X	X	X	X	X	X	X	X	X	X		NTU > 100 please filter
				Water														

480-224998 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
Deliverable Requested: I, II, III, IV, Other (specify) Cat B

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:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Jacob Cox	10/30 1555	BE3	KS	10-30-24 1555	TAB
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: 3.0, 2.2, 2.8, 3.3 IR #5C

Ver: 05/06/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

37/59

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90164.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-224998-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/12/2024			
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: The Nest Site Analysis GW	Project #: 48028073			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

PFAS R081-05

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/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	1633_DRAFT_TSS/ Percent Suspend Solids for Analysis PFAS	Total Number of containers
			Preservation Code:						
RI MW-3 (480-224998-1)	10/30/24	09:30 Eastern	G	Water			X	X	3
RI MW-3 (480-224998-1MS)	10/30/24	09:30 Eastern	G	Water			X	X	3
RI MW-3 (480-224998- MSD)	10/30/24	09:30 Eastern	G	Water			X	X	3
RI MW-3 DUP (480-224998-2)	10/30/24	10:30 Eastern	G	Water			X	X	3
RI MW-1 (480-224998-3)	10/30/24	13:00 Eastern	G	Water			X	X	3
RI MW-2 (480-224998-4)	10/30/24	14:00 Eastern	G	Water			X	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: Unconfirmed	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) 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]	10-31-24 1600		KATHARINE MARTIN	11/1/24 930	EUR
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 Eurofins - Buffalo Site Name _____ Cooler unpacked by: ICM

Cooler Received on 11/11/24 Opened on 11/11/24

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 # 21 (CF +0.2 °C) Observed Cooler Temp. 5.7 °C Corrected Cooler Temp. 5.9 °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# HC447997
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 TES ING
10 HAZELWOOD DRIVE

BUFFALO, NY 142282223
UNITED STATES US

CAD:[illegible]273/CAFE3855
DIMS 18x15x13 IN

BILL SENDER

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF. BARBERTON

FedEx Express

J243024070401un

TRK# 0201 7463 0660 4477

FRI - 01 NOV 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

Part # 158[illegible] MPS EXP 06/25

11/11/2024

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-224998-1

Login Number: 224998
List Number: 1
Creator: Wallace, Cameron

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	BE3
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: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213
Generated 11/13/2024 4:53:51 PM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-225023-1

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
11/13/2024 4:53:51 PM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
(716)504-9874

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Qualifiers

GC/MS 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.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^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.
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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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"

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 480-225023-1 Eurofins Buffalo

Job Narrative
480-225023-1

Receipt
The samples were received on 10/31/2024 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-731000 recovered above the upper control limit for Cyclohexane. The sample(s) associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: BH-1 (4-6`) (480-225023-1), BH-11 (0-2`) (480-225023-2) and BH-12 (2-4`) (480-225023-3).

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

GC/MS Semi VOA
Methods 8270C, 8270D: The following samples were diluted due to color, appearance, and viscosity: BH-11 (0-2`) (480-225023-2) and BH-12 (2-4`) (480-225023-3). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-731034 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH-1 (4-6`) (480-225023-1), BH-11 (0-2`) (480-225023-2) and BH-12 (2-4`) (480-225023-3).

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

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample matrix: BH-11 (0-2`) (480-225023-2) and BH-12 (2-4`) (480-225023-3). 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.

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

LCMS
Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-634034 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 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) (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 analytes associated with this IDA are within spec, data is reported. The following samples are impacted: BH-1 (4-6`) (480-225023-1), BH-11 (0-2`) (480-225023-2), BH-12 (2-4`) (480-225023-3), (CCVIS 240-634034/3), (240-214084-A-2-A) and (240-214084-A-2-B DU).

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the WDM associated with prep batch 240-633740. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The WDM associated target analyte(s) will be not affected by the IDA; therefore, the associated samples are reported. The following samples are affected:BH-1 (4-6`) (480-225023-1), BH-11 (0-2`) (480-225023-2), BH-12 (2-4`) (480-225023-3), (WDM 240-634034/4), (240-214084-A-2-A) and (240-214084-A-2-B DU).

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

General Chemistry
Method 9012B: The following samples ms/msd recovery is ND due to the samples reporting limit being 1.1.Due to this reanalysis was not performed.

(480-224950-A-5-P)

Eurofins Buffalo

Job ID: 480-225023-1 (Continued) Eurofins Buffalo

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

Organic Prep
Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: BH-11 (0-2`) (480-225023-2) and BH-12 (2-4`) (480-225023-3).

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225023-1
Project/Site: The Nest Site Analysis

Client Sample ID: BH-1 (4-6`) — Lab Sample ID: 480-225023-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.57	J B vs	5.2	0.32	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.2	J vs	5.2	0.40	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.1	J vs	10	0.88	ug/Kg	1	☼	8260C	Total/NA
Perfluorobutanoic acid (PFBA)	0.19	J	0.68	0.17	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.059	J	0.17	0.043	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.90		0.17	0.043	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	1970		10.9	9.4	mg/Kg	1	☼	6010C	Total/NA
Barium	11.0		0.55	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.094	J	0.22	0.044	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.55		0.22	0.077	mg/Kg	1	☼	6010C	Total/NA
Calcium	197000		273	147	mg/Kg	5	☼	6010C	Total/NA
Chromium	4.0		0.55	0.39	mg/Kg	1	☼	6010C	Total/NA
Cobalt	0.75		0.55	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	4.0		1.1	0.62	mg/Kg	1	☼	6010C	Total/NA
Iron	3530		10.9	9.3	mg/Kg	1	☼	6010C	Total/NA
Lead	8.9		1.1	0.50	mg/Kg	1	☼	6010C	Total/NA
Magnesium	119000		109	46.3	mg/Kg	5	☼	6010C	Total/NA
Manganese	590		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	3.0	J	5.5	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	704		32.8	26.5	mg/Kg	1	☼	6010C	Total/NA
Sodium	187		153	67.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	3.7		0.55	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	149		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.027		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH-11 (0-2`) — Lab Sample ID: 480-225023-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.56	J B vs	5.2	0.32	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.2	J vs	5.2	0.40	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.0	J vs	10	0.88	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	140	J	910	91	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	150	J	910	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	200	J	910	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110	J	910	96	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	260	J	910	96	ug/Kg	5	☼	8270D	Total/NA
Pyrene	230	J	910	110	ug/Kg	5	☼	8270D	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.14	J	0.18	0.044	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	2360	F1 F2	11.4	9.8	mg/Kg	1	☼	6010C	Total/NA
Barium	12.9		0.57	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.11	J	0.23	0.046	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.84		0.23	0.080	mg/Kg	1	☼	6010C	Total/NA
Calcium	192000		285	154	mg/Kg	5	☼	6010C	Total/NA
Chromium	4.5		0.57	0.41	mg/Kg	1	☼	6010C	Total/NA
Cobalt	0.98		0.57	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	4.0		1.1	0.65	mg/Kg	1	☼	6010C	Total/NA
Iron	4260	F2	11.4	9.7	mg/Kg	1	☼	6010C	Total/NA
Lead	16.4		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Magnesium	115000		114	48.3	mg/Kg	5	☼	6010C	Total/NA
Manganese	768		1.1	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	2.8	J	5.7	0.28	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH-11 (0-2`) (Continued)
Lab Sample ID: 480-225023-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	460		34.2	27.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	178		160	69.9	mg/Kg	1	☼	6010C	Total/NA
Thallium	0.91	J	6.8	0.87	mg/Kg	1	☼	6010C	Total/NA
Vanadium	4.6		0.57	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	150	F1	2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.020	J	0.023	0.0052	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.65	J B vs	5.2	0.32	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	270	J	890	89	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	270	J	890	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	350	J	890	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	210	J	890	94	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	130	J	890	110	ug/Kg	5	☼	8270D	Total/NA
Chrysene	280	J	890	200	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	600	J	890	94	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	170	J	890	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	320	J	890	130	ug/Kg	5	☼	8270D	Total/NA
Pyrene	460	J	890	100	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDT	3.2	J	8.6	2.0	ug/Kg	5	☼	8081B	Total/NA
Perfluorooctanoic acid (PFOA)	0.074	J	0.17	0.043	ug/Kg	1	☼	Draft-3 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.089	J	0.17	0.043	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	6610		11.1	9.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.8		2.2	0.98	mg/Kg	1	☼	6010C	Total/NA
Barium	91.3		0.56	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.28		0.22	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.34		0.22	0.078	mg/Kg	1	☼	6010C	Total/NA
Calcium	74000		55.7	30.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.2		0.56	0.40	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.5		0.56	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	14.2		1.1	0.63	mg/Kg	1	☼	6010C	Total/NA
Iron	8730		11.1	9.4	mg/Kg	1	☼	6010C	Total/NA
Lead	118		1.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Magnesium	28500		22.3	9.4	mg/Kg	1	☼	6010C	Total/NA
Manganese	383		1.1	0.31	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.6		5.6	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1660		33.4	27.0	mg/Kg	1	☼	6010C	Total/NA
Sodium	283		156	68.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.9		0.56	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	148		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.47		0.021	0.0047	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH-1 (4-6`)
Lab Sample ID: 480-225023-1
Date Collected: 10/31/24 10:20
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.2	U vs	5.2	0.38	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,1,2,2-Tetrachloroethane	5.2	U vs	5.2	0.85	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,1,2-Trichloroethane	5.2	U vs	5.2	0.68	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U vs	5.2	1.2	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,1-Dichloroethane	5.2	U vs	5.2	0.64	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,1-Dichloroethene	5.2	U vs	5.2	0.64	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,2,4-Trichlorobenzene	5.2	U vs	5.2	0.32	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,2-Dibromo-3-Chloropropane	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,2-Dichlorobenzene	5.2	U vs	5.2	0.41	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,2-Dichloroethane	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,2-Dichloropropane	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,3-Dichlorobenzene	5.2	U vs	5.2	0.27	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,4-Dichlorobenzene	5.2	U vs	5.2	0.73	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
2-Butanone (MEK)	26	U vs	26	1.9	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
2-Hexanone	26	U vs	26	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Acetone	26	U vs	26	4.4	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Benzene	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Bromodichloromethane	5.2	U vs	5.2	0.70	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Bromoform	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Bromomethane	5.2	U vs	5.2	0.47	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Carbon disulfide	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Carbon tetrachloride	5.2	U vs	5.2	0.51	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Chlorobenzene	5.2	U vs	5.2	0.69	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Dibromochloromethane	5.2	U vs	5.2	0.67	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Chloroethane	5.2	U vs	5.2	1.2	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Chloroform	**0.57**	**J B vs**	5.2	0.32	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Chloromethane	5.2	U vs	5.2	0.32	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
cis-1,2-Dichloroethene	5.2	U vs	5.2	0.67	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
cis-1,3-Dichloropropene	5.2	U vs	5.2	0.76	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Cyclohexane	5.2	U vs	5.2	0.73	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Dichlorodifluoromethane	5.2	U vs	5.2	0.43	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Ethylbenzene	5.2	U vs	5.2	0.36	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
1,2-Dibromoethane	5.2	U vs	5.2	0.67	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Isopropylbenzene	5.2	U vs	5.2	0.79	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Methyl acetate	26	U vs	26	3.2	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Methyl tert-butyl ether	5.2	U vs	5.2	0.52	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Methylcyclohexane	5.2	U vs	5.2	0.80	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Methylene Chloride	5.2	U vs	5.2	2.4	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Styrene	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Tetrachloroethene	5.2	U vs	5.2	0.70	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Toluene	**1.2**	**J vs**	5.2	0.40	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
trans-1,2-Dichloroethene	5.2	U vs	5.2	0.54	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
trans-1,3-Dichloropropene	5.2	U vs	5.2	2.3	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Trichloroethene	5.2	U vs	5.2	1.2	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Trichlorofluoromethane	5.2	U vs	5.2	0.50	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Vinyl chloride	5.2	U vs	5.2	0.64	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1
Xylenes, Total	**1.1**	**J vs**	10	0.88	ug/Kg	☼	11/03/24 16:35	11/04/24 00:08	1

Client Sample ID: BH-1 (4-6`)
Date Collected: 10/31/24 10:20
Date Received: 10/31/24 16:30

Lab Sample ID: 480-225023-1
Matrix: Solid
Percent Solids: 95.1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	1.1	J	ug/Kg	☼	8.45	179601-23-1	11/03/24 16:35	11/04/24 00:08	1
Tentatively Identified Compound	None		ug/Kg	☼		N/A	11/03/24 16:35	11/04/24 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		71 - 125	11/03/24 16:35	11/04/24 00:08	1
1,2-Dichloroethane-d4 (Surr)	93		64 - 126	11/03/24 16:35	11/04/24 00:08	1
4-Bromofluorobenzene (Surr)	84		72 - 126	11/03/24 16:35	11/04/24 00:08	1
Dibromofluoromethane (Surr)	91		60 - 140	11/03/24 16:35	11/04/24 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	57	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2,4,5-Trichlorophenol	180	U	180	48	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2,4,6-Trichlorophenol	180	U	180	35	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2,4-Dichlorophenol	180	U	180	19	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2,4-Dimethylphenol	180	U	180	43	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2,4-Dinitrophenol	1700	U	1700	810	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2,4-Dinitrotoluene	180	U	180	36	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2,6-Dinitrotoluene	180	U	180	21	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2-Chloronaphthalene	180	U	180	29	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2-Chlorophenol	340	U	340	32	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2-Methylnaphthalene	180	U	180	35	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2-Methylphenol	180	U	180	21	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2-Nitroaniline	340	U	340	26	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
2-Nitrophenol	180	U	180	50	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
3,3'-Dichlorobenzidine	340	U	340	210	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
3-Nitroaniline	340	U	340	49	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
4,6-Dinitro-2-methylphenol	340	U	340	180	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
4-Bromophenyl phenyl ether	180	U	180	25	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
4-Chloro-3-methylphenol	180	U	180	44	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
4-Chloroaniline	180	U	180	44	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
4-Chlorophenyl phenyl ether	180	U	180	22	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
4-Methylphenol	340	U	340	21	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
4-Nitroaniline	340	U	340	92	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
4-Nitrophenol	340	U	340	120	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Acenaphthene	180	U	180	26	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Acenaphthylene	180	U	180	23	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Acetophenone	180	U	180	24	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Anthracene	180	U	180	44	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Atrazine	180	U	180	61	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Benzaldehyde	180	U	180	140	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Benzo[a]anthracene	180	U	180	18	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Benzo[a]pyrene	180	U	180	26	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Benzo[b]fluoranthene	180	U	180	28	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Benzo[g,h,i]perylene	180	U	180	19	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Benzo[k]fluoranthene	180	U	180	23	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Biphenyl	180	U	180	26	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
bis (2-chloroisopropyl) ether	180	U	180	35	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Bis(2-chloroethoxy)methane	180	U	180	37	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Bis(2-chloroethyl)ether	180	U	180	23	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1

Client Sample ID: BH-1 (4-6`)
Lab Sample ID: 480-225023-1
Date Collected: 10/31/24 10:20
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	180	U	180	60	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Butyl benzyl phthalate	180	U	180	29	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Caprolactam	180	U	180	53	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Carbazole	180	U	180	21	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Chrysene	180	U	180	39	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Dibenz(a,h)anthracene	180	U	180	31	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Dibenzofuran	180	U	180	21	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Diethyl phthalate	180	U	180	23	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Dimethyl phthalate	180	U	180	21	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Di-n-butyl phthalate	180	U	180	30	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Di-n-octyl phthalate	180	U	180	21	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Fluoranthene	180	U	180	19	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Fluorene	180	U	180	21	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Hexachlorobenzene	180	U	180	24	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Hexachlorobutadiene	180	U	180	26	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Hexachlorocyclopentadiene	180	U	180	24	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Hexachloroethane	180	U	180	23	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Indeno[1,2,3-cd]pyrene	180	U	180	22	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Isophorone	180	U	180	37	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Naphthalene	180	U	180	23	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Nitrobenzene	180	U	180	20	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
N-Nitrosodi-n-propylamine	180	U	180	30	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
N-Nitrosodiphenylamine	180	U	180	140	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Pentachlorophenol	340	U	340	180	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Phenanthrene	180	U	180	26	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Phenol	180	U	180	27	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1
Pyrene	180	U	180	21	ug/Kg	☼	11/03/24 06:49	11/04/24 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*26 - 143*	*11/03/24 06:49*	*11/04/24 19:46*	*1*
2-Fluorobiphenyl (Surr)	*84*		*50 - 121*	*11/03/24 06:49*	*11/04/24 19:46*	*1*
2-Fluorophenol (Surr)	*85*		*36 - 120*	*11/03/24 06:49*	*11/04/24 19:46*	*1*
Nitrobenzene-d5 (Surr)	*84*		*40 - 121*	*11/03/24 06:49*	*11/04/24 19:46*	*1*
Phenol-d5 (Surr)	*88*		*41 - 120*	*11/03/24 06:49*	*11/04/24 19:46*	*1*
p-Terphenyl-d14 (Surr)	*94*		*46 - 143*	*11/03/24 06:49*	*11/04/24 19:46*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.7	U	1.7	0.34	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
4,4'-DDE	1.7	U	1.7	0.37	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
4,4'-DDT	1.7	U	1.7	0.41	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
Aldrin	1.7	U	1.7	0.43	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
alpha-BHC	1.7	U	1.7	0.31	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
beta-BHC	1.7	U	1.7	0.31	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
Chlordane (.alpha.)	1.7	U	1.7	0.87	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
delta-BHC	1.7	U	1.7	0.32	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
Dieldrin	1.7	U	1.7	0.42	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
Endosulfan I	1.7	U	1.7	0.33	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
Endosulfan II	1.7	U	1.7	0.31	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
Endosulfan sulfate	1.7	U	1.7	0.32	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1

Client Sample ID: BH-1 (4-6`)
Lab Sample ID: 480-225023-1
Date Collected: 10/31/24 10:20
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	1.7	U	1.7	0.34	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
Heptachlor	1.7	U	1.7	0.38	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1
Lindane	1.7	U	1.7	0.32	ug/Kg	☼	11/04/24 17:30	11/05/24 11:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*45 - 120*	*11/04/24 17:30*	*11/05/24 11:13*	*1*
DCB Decachlorobiphenyl	*81*		*45 - 120*	*11/04/24 17:30*	*11/05/24 11:13*	*1*
Tetrachloro-m-xylene	*68*		*30 - 124*	*11/04/24 17:30*	*11/05/24 11:13*	*1*
Tetrachloro-m-xylene	*74*		*30 - 124*	*11/04/24 17:30*	*11/05/24 11:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.21	U	0.21	0.042	mg/Kg	☼	11/01/24 17:55	11/02/24 22:16	1
PCB-1221	0.21	U	0.21	0.042	mg/Kg	☼	11/01/24 17:55	11/02/24 22:16	1
PCB-1232	0.21	U	0.21	0.042	mg/Kg	☼	11/01/24 17:55	11/02/24 22:16	1
PCB-1242	0.21	U	0.21	0.042	mg/Kg	☼	11/01/24 17:55	11/02/24 22:16	1
PCB-1248	0.21	U	0.21	0.042	mg/Kg	☼	11/01/24 17:55	11/02/24 22:16	1
PCB-1254	0.21	U	0.21	0.10	mg/Kg	☼	11/01/24 17:55	11/02/24 22:16	1
PCB-1260	0.21	U	0.21	0.10	mg/Kg	☼	11/01/24 17:55	11/02/24 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*113*		*60 - 154*	*11/01/24 17:55*	*11/02/24 22:16*	*1*
Tetrachloro-m-xylene	*113*		*60 - 154*	*11/01/24 17:55*	*11/02/24 22:16*	*1*
DCB Decachlorobiphenyl	*109*		*65 - 174*	*11/01/24 17:55*	*11/02/24 22:16*	*1*
DCB Decachlorobiphenyl	*141*		*65 - 174*	*11/01/24 17:55*	*11/02/24 22:16*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.1	ug/Kg	☼	11/03/24 06:56	11/05/24 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*11/03/24 06:56*	*11/05/24 16:55*	*1*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*11/03/24 06:56*	*11/05/24 16:55*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.19**	**J**	0.68	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluoropentanoic acid (PFPeA)	0.34	U	0.34	0.085	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorooctanoic acid (PFOA)	**0.059**	**J**	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1

Client Sample ID: BH-1 (4-6`)
Lab Sample ID: 480-225023-1
Date Collected: 10/31/24 10:20
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 95.1

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorooctanesulfonic acid (PFOS)	**0.90**		0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.68	U	0.68	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.68	U	0.68	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.68	U	0.68	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.43	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.43	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.68	U	0.68	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.68	U	0.68	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.34	U	0.34	0.085	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.34	U	0.34	0.085	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.68	U	0.68	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.68	U	0.68	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.34	U	0.34	0.085	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.85	U	0.85	0.21	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.3	U	4.3	1.1	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.3	U	4.3	1.1	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.34	U	0.34	0.085	ug/Kg	☼	11/05/24 08:10	11/05/24 19:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88.0*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C5 PFPeA	*88.7*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C5 PFHxA	*82.2*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C4 PFHpA	*87.2*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C8 PFOA	*86.3*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*

Client Sample ID: BH-1 (4-6`)
Lab Sample ID: 480-225023-1
Date Collected: 10/31/24 10:20
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 95.1

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C9 PFNA	*86.9*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C6 PFDA	*85.5*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C7 PFUnA	*84.6*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C2 PFTeDA	*81.4*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C3 PFBS	*88.1*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C3 PFHxS	*87.1*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C8 PFOS	*84.7*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C8 PFOSA	*79.0*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
d3-NMeFOSAA	*80.1*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
d5-NEtFOSAA	*117*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
M2-4:2 FTS	*98.0*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
M2-6:2 FTS	*88.4*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
M2-8:2 FTS	*83.0*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C3 HFPO-DA	*91.4*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
d7-N-MeFOSE-M	*81.5*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
d9-N-EtFOSE-M	*74.2*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
d5-NEtPFOSA	*65.7*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
D3-NMeFOSA	*65.5*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*
13C2-PFDoDA	*80.7*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:04*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1970**		10.9	9.4	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Antimony	16.4	U	16.4	0.58	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Arsenic	2.2	U	2.2	0.96	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Barium	**11.0**		0.55	0.15	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Beryllium	**0.094**	**J**	0.22	0.044	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Cadmium	**0.55**		0.22	0.077	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Calcium	**197000**		273	147	mg/Kg	☼	11/01/24 15:14	11/05/24 13:49	5
Chromium	**4.0**		0.55	0.39	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Cobalt	**0.75**		0.55	0.11	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Copper	**4.0**		1.1	0.62	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Iron	**3530**		10.9	9.3	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Lead	**8.9**		1.1	0.50	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Magnesium	**119000**		109	46.3	mg/Kg	☼	11/01/24 15:14	11/05/24 13:49	5
Manganese	**590**		1.1	0.31	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Nickel	**3.0**	**J**	5.5	0.27	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Potassium	**704**		32.8	26.5	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Selenium	4.4	U	4.4	0.87	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Silver	0.66	U	0.66	0.22	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Sodium	**187**		153	67.0	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Thallium	6.6	U	6.6	0.83	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Vanadium	**3.7**		0.55	0.14	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1
Zinc	**149**		2.2	1.1	mg/Kg	☼	11/01/24 15:14	11/04/24 14:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.022	0.0051	mg/Kg	☼	11/04/24 10:01	11/04/24 14:21	1

Client Sample ID: BH-1 (4-6`)
Lab Sample ID: 480-225023-1
Date Collected: 10/31/24 10:20
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 95.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.88	mg/Kg	☼	11/12/24 09:00	11/12/24 12:50	1
Cyanide, Total (SW846 9012B)	0.92	U	0.92	0.44	mg/Kg	☼	11/05/24 14:00	11/05/24 17:54	1

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Date Collected: 10/31/24 14:40
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.2	U vs	5.2	0.38	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,1,2,2-Tetrachloroethane	5.2	U vs	5.2	0.85	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,1,2-Trichloroethane	5.2	U vs	5.2	0.68	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U vs	5.2	1.2	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,1-Dichloroethane	5.2	U vs	5.2	0.64	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,1-Dichloroethene	5.2	U vs	5.2	0.64	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,2,4-Trichlorobenzene	5.2	U vs	5.2	0.32	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,2-Dibromo-3-Chloropropane	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,2-Dichlorobenzene	5.2	U vs	5.2	0.41	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,2-Dichloroethane	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,2-Dichloropropane	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,3-Dichlorobenzene	5.2	U vs	5.2	0.27	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,4-Dichlorobenzene	5.2	U vs	5.2	0.73	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
2-Butanone (MEK)	26	U vs	26	1.9	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
2-Hexanone	26	U vs	26	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Acetone	26	U vs	26	4.4	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Benzene	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Bromodichloromethane	5.2	U vs	5.2	0.70	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Bromoform	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Bromomethane	5.2	U vs	5.2	0.47	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Carbon disulfide	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Carbon tetrachloride	5.2	U vs	5.2	0.51	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Chlorobenzene	5.2	U vs	5.2	0.69	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Dibromochloromethane	5.2	U vs	5.2	0.67	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Chloroethane	5.2	U vs	5.2	1.2	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Chloroform	**0.56**	**J B vs**	5.2	0.32	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Chloromethane	5.2	U vs	5.2	0.32	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
cis-1,2-Dichloroethene	5.2	U vs	5.2	0.67	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
cis-1,3-Dichloropropene	5.2	U vs	5.2	0.76	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Cyclohexane	5.2	U vs	5.2	0.73	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Dichlorodifluoromethane	5.2	U vs	5.2	0.43	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Ethylbenzene	5.2	U vs	5.2	0.36	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
1,2-Dibromoethane	5.2	U vs	5.2	0.67	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Isopropylbenzene	5.2	U vs	5.2	0.79	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Methyl acetate	26	U vs	26	3.2	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Methyl tert-butyl ether	5.2	U vs	5.2	0.52	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Methylcyclohexane	5.2	U vs	5.2	0.80	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Methylene Chloride	5.2	U vs	5.2	2.4	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Styrene	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Tetrachloroethene	5.2	U vs	5.2	0.70	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Date Collected: 10/31/24 14:40
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**1.2**	**J vs**	5.2	0.40	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
trans-1,2-Dichloroethene	5.2	U vs	5.2	0.54	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
trans-1,3-Dichloropropene	5.2	U vs	5.2	2.3	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Trichloroethene	5.2	U vs	5.2	1.2	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Trichlorofluoromethane	5.2	U vs	5.2	0.50	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Vinyl chloride	5.2	U vs	5.2	0.64	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1
Xylenes, Total	**1.0**	**J vs**	10	0.88	ug/Kg	☼	11/03/24 16:35	11/04/24 00:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*1.0*	*J*	*ug/Kg*	☼	*8.45*	*179601-23-1*	*11/03/24 16:35*	*11/04/24 00:32*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*11/03/24 16:35*	*11/04/24 00:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*71 - 125*	*11/03/24 16:35*	*11/04/24 00:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*64 - 126*	*11/03/24 16:35*	*11/04/24 00:32*	*1*
4-Bromofluorobenzene (Surr)	*83*		*72 - 126*	*11/03/24 16:35*	*11/04/24 00:32*	*1*
Dibromofluoromethane (Surr)	*91*		*60 - 140*	*11/03/24 16:35*	*11/04/24 00:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	530	U	530	290	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2,4,5-Trichlorophenol	910	U	910	250	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2,4,6-Trichlorophenol	910	U	910	180	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2,4-Dichlorophenol	910	U	910	96	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2,4-Dimethylphenol	910	U	910	220	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2,4-Dinitrophenol	8900	U	8900	4200	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2,4-Dinitrotoluene	910	U	910	190	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2,6-Dinitrotoluene	910	U	910	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2-Chloronaphthalene	910	U	910	150	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2-Chlorophenol	1800	U	1800	170	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2-Methylnaphthalene	910	U	910	180	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2-Methylphenol	910	U	910	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2-Nitroaniline	1800	U	1800	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
2-Nitrophenol	910	U	910	260	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
3,3'-Dichlorobenzidine	1800	U	1800	1100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
3-Nitroaniline	1800	U	1800	250	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
4,6-Dinitro-2-methylphenol	1800	U	1800	910	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
4-Bromophenyl phenyl ether	910	U	910	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
4-Chloro-3-methylphenol	910	U	910	220	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
4-Chloroaniline	910	U	910	220	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
4-Chlorophenyl phenyl ether	910	U	910	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
4-Methylphenol	1800	U	1800	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
4-Nitroaniline	1800	U	1800	470	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
4-Nitrophenol	1800	U	1800	640	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Acenaphthene	910	U	910	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Acenaphthylene	910	U	910	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Acetophenone	910	U	910	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Anthracene	910	U	910	220	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Atrazine	910	U	910	310	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Benzaldehyde	910	U	910	720	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Date Collected: 10/31/24 14:40
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**140**	**J**	910	91	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Benzo[a]pyrene	**150**	**J**	910	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Benzo[b]fluoranthene	**200**	**J**	910	140	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Benzo[g,h,i]perylene	**110**	**J**	910	96	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Benzo[k]fluoranthene	910	U	910	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Biphenyl	910	U	910	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
bis (2-chloroisopropyl) ether	910	U	910	180	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Bis(2-chloroethoxy)methane	910	U	910	190	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Bis(2-chloroethyl)ether	910	U	910	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Bis(2-ethylhexyl) phthalate	910	U	910	310	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Butyl benzyl phthalate	910	U	910	150	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Caprolactam	910	U	910	270	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Carbazole	910	U	910	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Chrysene	910	U	910	200	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Dibenz(a,h)anthracene	910	U	910	160	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Dibenzofuran	910	U	910	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Diethyl phthalate	910	U	910	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Dimethyl phthalate	910	U	910	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Di-n-butyl phthalate	910	U	910	150	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Di-n-octyl phthalate	910	U	910	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Fluoranthene	**260**	**J**	910	96	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Fluorene	910	U	910	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Hexachlorobenzene	910	U	910	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Hexachlorobutadiene	910	U	910	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Hexachlorocyclopentadiene	910	U	910	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Hexachloroethane	910	U	910	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Indeno[1,2,3-cd]pyrene	910	U	910	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Isophorone	910	U	910	190	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Naphthalene	910	U	910	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Nitrobenzene	910	U	910	100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
N-Nitrosodi-n-propylamine	910	U	910	150	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
N-Nitrosodiphenylamine	910	U	910	740	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Pentachlorophenol	1800	U	1800	910	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Phenanthrene	910	U	910	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Phenol	910	U	910	140	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5
Pyrene	**230**	**J**	910	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*26 - 143*	*11/03/24 06:49*	*11/04/24 20:12*	*5*
2-Fluorobiphenyl (Surr)	*86*		*50 - 121*	*11/03/24 06:49*	*11/04/24 20:12*	*5*
2-Fluorophenol (Surr)	*74*		*36 - 120*	*11/03/24 06:49*	*11/04/24 20:12*	*5*
Nitrobenzene-d5 (Surr)	*77*		*40 - 121*	*11/03/24 06:49*	*11/04/24 20:12*	*5*
Phenol-d5 (Surr)	*77*		*41 - 120*	*11/03/24 06:49*	*11/04/24 20:12*	*5*
p-Terphenyl-d14 (Surr)	*93*		*46 - 143*	*11/03/24 06:49*	*11/04/24 20:12*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	35	U	35	6.9	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
4,4'-DDE	35	U	35	7.4	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
4,4'-DDT	35	U	35	8.3	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Date Collected: 10/31/24 14:40
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	35	U	35	8.7	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
alpha-BHC	35	U	35	6.4	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
beta-BHC	35	U	35	6.4	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
Chlordane (.alpha.)	35	U	35	18	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
delta-BHC	35	U	35	6.6	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
Dieldrin	35	U	35	8.5	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
Endosulfan I	35	U	35	6.8	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
Endosulfan II	35	U	35	6.4	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
Endosulfan sulfate	35	U	35	6.6	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
Endrin	35	U	35	7.0	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
Heptachlor	35	U	35	7.7	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20
Lindane	35	U	35	6.5	ug/Kg	☼	11/04/24 17:30	11/05/24 11:32	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*11/04/24 17:30*	*11/05/24 11:32*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*11/04/24 17:30*	*11/05/24 11:32*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*11/04/24 17:30*	*11/05/24 11:32*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*11/04/24 17:30*	*11/05/24 11:32*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.22	U	0.22	0.044	mg/Kg	☼	11/01/24 17:55	11/03/24 03:04	1
PCB-1221	0.22	U	0.22	0.044	mg/Kg	☼	11/01/24 17:55	11/03/24 03:04	1
PCB-1232	0.22	U	0.22	0.044	mg/Kg	☼	11/01/24 17:55	11/03/24 03:04	1
PCB-1242	0.22	U	0.22	0.044	mg/Kg	☼	11/01/24 17:55	11/03/24 03:04	1
PCB-1248	0.22	U	0.22	0.044	mg/Kg	☼	11/01/24 17:55	11/03/24 03:04	1
PCB-1254	0.22	U	0.22	0.10	mg/Kg	☼	11/01/24 17:55	11/03/24 03:04	1
PCB-1260	0.22	U	0.22	0.10	mg/Kg	☼	11/01/24 17:55	11/03/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*60 - 154*	*11/01/24 17:55*	*11/03/24 03:04*	*1*
Tetrachloro-m-xylene	*111*		*60 - 154*	*11/01/24 17:55*	*11/03/24 03:04*	*1*
DCB Decachlorobiphenyl	*100*		*65 - 174*	*11/01/24 17:55*	*11/03/24 03:04*	*1*
DCB Decachlorobiphenyl	*129*		*65 - 174*	*11/01/24 17:55*	*11/03/24 03:04*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	18	U	18	6.3	ug/Kg	☼	11/03/24 06:56	11/05/24 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*11/03/24 06:56*	*11/05/24 17:14*	*1*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*11/03/24 06:56*	*11/05/24 17:14*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.71	U	0.71	0.18	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.088	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Date Collected: 10/31/24 14:40
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 93.0

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorooctanesulfonic acid (PFOS)	**0.14**	**J**	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.44	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.44	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.71	U	0.71	0.18	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.71	U	0.71	0.18	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.088	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.088	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.71	U	0.71	0.18	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.71	U	0.71	0.18	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.088	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.88	U	0.88	0.22	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	4.4	1.1	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.4	U	4.4	1.1	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1

Client Sample ID: BH-11 (0-2`)
Date Collected: 10/31/24 14:40
Date Received: 10/31/24 16:30

Lab Sample ID: 480-225023-2
Matrix: Solid
Percent Solids: 93.0

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.044	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.088	ug/Kg	☼	11/05/24 08:10	11/05/24 19:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88.1*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C5 PFPeA	*90.1*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C5 PFHxA	*79.3*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C4 PFHpA	*87.1*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C8 PFOA	*86.8*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C9 PFNA	*87.1*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C6 PFDA	*76.8*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C7 PFUnA	*80.3*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C2 PFTeDA	*85.6*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C3 PFBS	*87.3*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C3 PFHxS	*87.4*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C8 PFOS	*83.5*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C8 PFOSA	*75.1*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
d3-NMeFOSAA	*80.3*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
d5-NEtFOSAA	*90.6*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
M2-4:2 FTS	*97.3*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
M2-6:2 FTS	*89.4*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
M2-8:2 FTS	*83.6*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C3 HFPO-DA	*90.0*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
d7-N-MeFOSE-M	*81.8*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
d9-N-EtFOSE-M	*77.9*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
d5-NEtPFOSA	*71.3*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
D3-NMeFOSA	*67.3*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*
13C2-PFDoDA	*77.4*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:20*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2360**	**F1 F2**	11.4	9.8	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Antimony	17.1	U	17.1	0.60	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Arsenic	2.3	U	2.3	1.0	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Barium	**12.9**		0.57	0.16	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Beryllium	**0.11**	**J**	0.23	0.046	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Cadmium	**0.84**		0.23	0.080	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Calcium	**192000**		285	154	mg/Kg	☼	11/01/24 15:14	11/05/24 13:51	5
Chromium	**4.5**		0.57	0.41	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Cobalt	**0.98**		0.57	0.11	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Copper	**4.0**		1.1	0.65	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Iron	**4260**	**F2**	11.4	9.7	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Lead	**16.4**		1.1	0.52	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Magnesium	**115000**		114	48.3	mg/Kg	☼	11/01/24 15:14	11/05/24 13:51	5
Manganese	**768**		1.1	0.32	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Nickel	**2.8**	**J**	5.7	0.28	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Potassium	**460**		34.2	27.6	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Selenium	4.6	U	4.6	0.91	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Silver	0.68	U	0.68	0.23	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Sodium	**178**		160	69.9	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Date Collected: 10/31/24 14:40
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.91	J	6.8	0.87	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Vanadium	4.6		0.57	0.15	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1
Zinc	150	F1	2.3	1.2	mg/Kg	☼	11/01/24 15:14	11/04/24 14:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	J	0.023	0.0052	mg/Kg	☼	11/04/24 10:01	11/04/24 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.90	mg/Kg	☼	11/12/24 09:00	11/12/24 12:50	1
Cyanide, Total (SW846 9012B)	1.0	U	1.0	0.48	mg/Kg	☼	11/05/24 14:00	11/05/24 17:54	1

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Date Collected: 10/31/24 15:30
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.2	U vs	5.2	0.37	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,1,2,2-Tetrachloroethane	5.2	U vs	5.2	0.84	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,1,2-Trichloroethane	5.2	U vs	5.2	0.67	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U vs	5.2	1.2	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,1-Dichloroethane	5.2	U vs	5.2	0.63	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,1-Dichloroethene	5.2	U vs	5.2	0.63	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,2,4-Trichlorobenzene	5.2	U vs	5.2	0.31	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,2-Dibromo-3-Chloropropane	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,2-Dichlorobenzene	5.2	U vs	5.2	0.40	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,2-Dichloroethane	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,2-Dichloropropane	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,3-Dichlorobenzene	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,4-Dichlorobenzene	5.2	U vs	5.2	0.72	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
2-Butanone (MEK)	26	U vs	26	1.9	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
2-Hexanone	26	U vs	26	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Acetone	26	U vs	26	4.3	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Benzene	5.2	U vs	5.2	0.25	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Bromodichloromethane	5.2	U vs	5.2	0.69	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Bromoform	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Bromomethane	5.2	U vs	5.2	0.46	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Carbon disulfide	5.2	U vs	5.2	2.6	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Carbon tetrachloride	5.2	U vs	5.2	0.50	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Chlorobenzene	5.2	U vs	5.2	0.68	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Dibromochloromethane	5.2	U vs	5.2	0.66	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Chloroethane	5.2	U vs	5.2	1.2	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Chloroform	0.65	J B vs	5.2	0.32	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Chloromethane	5.2	U vs	5.2	0.31	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
cis-1,2-Dichloroethene	5.2	U vs	5.2	0.66	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
cis-1,3-Dichloropropene	5.2	U vs	5.2	0.74	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Cyclohexane	5.2	U vs	5.2	0.72	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Date Collected: 10/31/24 15:30
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.2	U vs	5.2	0.43	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Ethylbenzene	5.2	U vs	5.2	0.36	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
1,2-Dibromoethane	5.2	U vs	5.2	0.66	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Isopropylbenzene	5.2	U vs	5.2	0.78	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Methyl acetate	26	U vs	26	3.1	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Methyl tert-butyl ether	5.2	U vs	5.2	0.51	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Methylcyclohexane	5.2	U vs	5.2	0.78	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Methylene Chloride	5.2	U vs	5.2	2.4	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Styrene	5.2	U vs	5.2	0.26	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Tetrachloroethene	5.2	U vs	5.2	0.69	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Toluene	5.2	U vs	5.2	0.39	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
trans-1,2-Dichloroethene	5.2	U vs	5.2	0.53	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
trans-1,3-Dichloropropene	5.2	U vs	5.2	2.3	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Trichloroethene	5.2	U vs	5.2	1.1	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Trichlorofluoromethane	5.2	U vs	5.2	0.49	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Vinyl chloride	5.2	U vs	5.2	0.63	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1
Xylenes, Total	10	U vs	10	0.87	ug/Kg	☼	11/03/24 16:35	11/04/24 00:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*11/03/24 16:35*	*11/04/24 00:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*71 - 125*	*11/03/24 16:35*	*11/04/24 00:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*	*11/03/24 16:35*	*11/04/24 00:55*	*1*
4-Bromofluorobenzene (Surr)	*82*		*72 - 126*	*11/03/24 16:35*	*11/04/24 00:55*	*1*
Dibromofluoromethane (Surr)	*92*		*60 - 140*	*11/03/24 16:35*	*11/04/24 00:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	520	U	520	290	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2,4,5-Trichlorophenol	890	U	890	240	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2,4,6-Trichlorophenol	890	U	890	180	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2,4-Dichlorophenol	890	U	890	94	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2,4-Dimethylphenol	890	U	890	210	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2,4-Dinitrophenol	8700	U	8700	4100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2,4-Dinitrotoluene	890	U	890	180	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2,6-Dinitrotoluene	890	U	890	100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2-Chloronaphthalene	890	U	890	150	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2-Chlorophenol	1700	U	1700	160	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2-Methylnaphthalene	890	U	890	180	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2-Methylphenol	890	U	890	100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2-Nitroaniline	1700	U	1700	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
2-Nitrophenol	890	U	890	250	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
3,3'-Dichlorobenzidine	1700	U	1700	1000	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
3-Nitroaniline	1700	U	1700	250	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
4,6-Dinitro-2-methylphenol	1700	U	1700	890	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
4-Bromophenyl phenyl ether	890	U	890	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
4-Chloro-3-methylphenol	890	U	890	220	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
4-Chloroaniline	890	U	890	220	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
4-Chlorophenyl phenyl ether	890	U	890	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Date Collected: 10/31/24 15:30
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	1700	U	1700	100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
4-Nitroaniline	1700	U	1700	460	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
4-Nitrophenol	1700	U	1700	620	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Acenaphthene	890	U	890	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Acenaphthylene	890	U	890	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Acetophenone	890	U	890	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Anthracene	890	U	890	220	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Atrazine	890	U	890	310	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Benzaldehyde	890	U	890	700	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Benzo[a]anthracene	**270**	**J**	890	89	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Benzo[a]pyrene	**270**	**J**	890	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Benzo[b]fluoranthene	**350**	**J**	890	140	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Benzo[g,h,i]perylene	**210**	**J**	890	94	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Benzo[k]fluoranthene	**130**	**J**	890	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Biphenyl	890	U	890	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
bis (2-chloroisopropyl) ether	890	U	890	180	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Bis(2-chloroethoxy)methane	890	U	890	190	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Bis(2-chloroethyl)ether	890	U	890	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Bis(2-ethylhexyl) phthalate	890	U	890	300	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Butyl benzyl phthalate	890	U	890	150	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Caprolactam	890	U	890	270	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Carbazole	890	U	890	100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Chrysene	**280**	**J**	890	200	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Dibenz(a,h)anthracene	890	U	890	160	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Dibenzofuran	890	U	890	100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Diethyl phthalate	890	U	890	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Dimethyl phthalate	890	U	890	100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Di-n-butyl phthalate	890	U	890	150	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Di-n-octyl phthalate	890	U	890	100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Fluoranthene	**600**	**J**	890	94	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Fluorene	890	U	890	100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Hexachlorobenzene	890	U	890	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Hexachlorobutadiene	890	U	890	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Hexachlorocyclopentadiene	890	U	890	120	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Hexachloroethane	890	U	890	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Indeno[1,2,3-cd]pyrene	**170**	**J**	890	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Isophorone	890	U	890	190	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Naphthalene	890	U	890	110	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Nitrobenzene	890	U	890	99	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
N-Nitrosodi-n-propylamine	890	U	890	150	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
N-Nitrosodiphenylamine	890	U	890	720	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Pentachlorophenol	1700	U	1700	890	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Phenanthrene	**320**	**J**	890	130	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Phenol	890	U	890	140	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5
Pyrene	**460**	**J**	890	100	ug/Kg	☼	11/03/24 06:49	11/04/24 20:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*26 - 143*	*11/03/24 06:49*	*11/04/24 20:36*	*5*
2-Fluorobiphenyl (Surr)	*93*		*50 - 121*	*11/03/24 06:49*	*11/04/24 20:36*	*5*
2-Fluorophenol (Surr)	*77*		*36 - 120*	*11/03/24 06:49*	*11/04/24 20:36*	*5*

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Date Collected: 10/31/24 15:30
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 94.8

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*40 - 121*	*11/03/24 06:49*	*11/04/24 20:36*	*5*
Phenol-d5 (Surr)	*85*		*41 - 120*	*11/03/24 06:49*	*11/04/24 20:36*	*5*
p-Terphenyl-d14 (Surr)	*91*		*46 - 143*	*11/03/24 06:49*	*11/04/24 20:36*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	8.6	U	8.6	1.7	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
4,4'-DDE	8.6	U	8.6	1.8	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
4,4'-DDT	**3.2**	**J**	8.6	2.0	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
Aldrin	8.6	U	8.6	2.1	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
alpha-BHC	8.6	U	8.6	1.5	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
beta-BHC	8.6	U	8.6	1.5	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
Chlordane (.alpha.)	8.6	U	8.6	4.3	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
delta-BHC	8.6	U	8.6	1.6	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
Dieldrin	8.6	U	8.6	2.1	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
Endosulfan I	8.6	U	8.6	1.7	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
Endosulfan II	8.6	U	8.6	1.5	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
Endosulfan sulfate	8.6	U	8.6	1.6	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
Endrin	8.6	U	8.6	1.7	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
Heptachlor	8.6	U	8.6	1.9	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5
Lindane	8.6	U	8.6	1.6	ug/Kg	☼	11/04/24 17:30	11/05/24 11:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*45 - 120*	*11/04/24 17:30*	*11/05/24 11:52*	*5*
DCB Decachlorobiphenyl	*89*		*45 - 120*	*11/04/24 17:30*	*11/05/24 11:52*	*5*
Tetrachloro-m-xylene	*66*		*30 - 124*	*11/04/24 17:30*	*11/05/24 11:52*	*5*
Tetrachloro-m-xylene	*79*		*30 - 124*	*11/04/24 17:30*	*11/05/24 11:52*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.20	U	0.20	0.039	mg/Kg	☼	11/01/24 17:55	11/03/24 03:22	1
PCB-1221	0.20	U	0.20	0.039	mg/Kg	☼	11/01/24 17:55	11/03/24 03:22	1
PCB-1232	0.20	U	0.20	0.039	mg/Kg	☼	11/01/24 17:55	11/03/24 03:22	1
PCB-1242	0.20	U	0.20	0.039	mg/Kg	☼	11/01/24 17:55	11/03/24 03:22	1
PCB-1248	0.20	U	0.20	0.039	mg/Kg	☼	11/01/24 17:55	11/03/24 03:22	1
PCB-1254	0.20	U	0.20	0.094	mg/Kg	☼	11/01/24 17:55	11/03/24 03:22	1
PCB-1260	0.20	U	0.20	0.094	mg/Kg	☼	11/01/24 17:55	11/03/24 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*113*		*60 - 154*	*11/01/24 17:55*	*11/03/24 03:22*	*1*
Tetrachloro-m-xylene	*112*		*60 - 154*	*11/01/24 17:55*	*11/03/24 03:22*	*1*
DCB Decachlorobiphenyl	*109*		*65 - 174*	*11/01/24 17:55*	*11/03/24 03:22*	*1*
DCB Decachlorobiphenyl	*137*		*65 - 174*	*11/01/24 17:55*	*11/03/24 03:22*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	18	U	18	6.3	ug/Kg	☼	11/03/24 06:56	11/05/24 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*67*		*28 - 129*	*11/03/24 06:56*	*11/05/24 17:32*	*1*

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Date Collected: 10/31/24 15:30
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 94.8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*11/03/24 06:56*	*11/05/24 17:32*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.69	U	0.69	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.087	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorooctanoic acid (PFOA)	**0.074**	**J**	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorooctanesulfonic acid (PFOS)	**0.089**	**J**	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.43	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.43	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.69	U	0.69	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.69	U	0.69	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.087	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.087	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Date Collected: 10/31/24 15:30
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 94.8

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.69	U	0.69	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.69	U	0.69	0.17	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.087	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.87	U	0.87	0.22	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.3	U	4.3	1.1	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.3	U	4.3	1.1	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.043	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.087	ug/Kg	☼	11/05/24 08:10	11/05/24 19:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86.7*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C5 PFPeA	*91.9*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C5 PFHxA	*83.9*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C4 PFHpA	*88.7*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C8 PFOA	*87.2*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C9 PFNA	*85.8*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C6 PFDA	*79.7*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C7 PFUnA	*81.2*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C2 PFTeDA	*82.6*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C3 PFBS	*82.0*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C3 PFHxS	*85.9*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C8 PFOS	*83.7*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C8 PFOSA	*80.1*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
d3-NMeFOSAA	*77.4*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
d5-NEtFOSAA	*107*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
M2-4:2 FTS	*95.0*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
M2-6:2 FTS	*86.4*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
M2-8:2 FTS	*75.4*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C3 HFPO-DA	*92.8*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
d7-N-MeFOSE-M	*83.6*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
d9-N-EtFOSE-M	*76.3*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
d5-NEtPFOSA	*71.8*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
D3-NMeFOSA	*64.2*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*
13C2-PFDoDA	*77.6*		*20 - 150*	*11/05/24 08:10*	*11/05/24 19:37*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6610**		11.1	9.6	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Antimony	16.7	U	16.7	0.59	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Arsenic	**2.8**		2.2	0.98	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Barium	**91.3**		0.56	0.16	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Beryllium	**0.28**		0.22	0.045	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Cadmium	**0.34**		0.22	0.078	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Calcium	**74000**		55.7	30.1	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Chromium	**8.2**		0.56	0.40	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Date Collected: 10/31/24 15:30
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**3.5**		0.56	0.11	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Copper	**14.2**		1.1	0.63	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Iron	**8730**		11.1	9.4	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Lead	**118**		1.1	0.51	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Magnesium	**28500**		22.3	9.4	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Manganese	**383**		1.1	0.31	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Nickel	**8.6**		5.6	0.28	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Potassium	**1660**		33.4	27.0	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Selenium	4.5	U	4.5	0.89	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Silver	0.67	U	0.67	0.22	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Sodium	**283**		156	68.3	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Thallium	6.7	U	6.7	0.85	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Vanadium	**12.9**		0.56	0.14	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1
Zinc	**148**		2.2	1.1	mg/Kg	☼	11/01/24 15:14	11/04/24 14:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.47**		0.021	0.0047	mg/Kg	☼	11/04/24 10:01	11/04/24 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.88	mg/Kg	☼	11/12/24 09:00	11/12/24 12:50	1
Cyanide, Total (SW846 9012B)	0.93	U	0.93	0.45	mg/Kg	☼	11/05/24 14:00	11/05/24 17:55	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225023-1
Project/Site: The Nest Site Analysis

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-225023-1	BH-1 (4-6`)	90	93	84	91
480-225023-2	BH-11 (0-2`)	89	94	83	91
480-225023-3	BH-12 (2-4`)	89	96	82	92
LCS 480-730998/1-A	Lab Control Sample	90	90	85	90
MB 480-730998/2-A	Method Blank	88	94	83	91

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (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	PHL	TPHd14
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(41-120)	(46-143)
480-225023-1	BH-1 (4-6`)	81	84	85	84	88	94
480-225023-2	BH-11 (0-2`)	73	86	74	77	77	93
480-225023-3	BH-12 (2-4`)	76	93	77	84	85	91
LCS 480-730963/2-A	Lab Control Sample	107	92	93	88	93	98
MB 480-730963/1-A	Method Blank	74	84	84	76	86	90

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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)
480-225023-1	BH-1 (4-6`)	68	81	68	74
480-225023-1 MS	BH-1 (4-6`)	73	88	68	81
480-225023-1 MSD	BH-1 (4-6`)	70	85	63	72
480-225023-2	BH-11 (0-2`)	0 S1-	0 S1-	0 S1-	0 S1-
480-225023-3	BH-12 (2-4`)	64	89	66	79
LCS 480-731139/2-A	Lab Control Sample	71	83	62	70
MB 480-731139/1-A	Method Blank	53	74	59	64

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225023-1
Project/Site: The Nest Site Analysis

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)
480-225023-1	BH-1 (4-6`)	113	113	109	141
480-225023-1 MS	BH-1 (4-6`)	134	134	123	160
480-225023-1 MSD	BH-1 (4-6`)	133	127	126	161
480-225023-2	BH-11 (0-2`)	104	111	100	129
480-225023-3	BH-12 (2-4`)	113	112	109	137
LCS 480-730899/2-A	Lab Control Sample	124	120	113	147
MB 480-730899/1-A	Method Blank	109	107	104	134

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)
480-225023-1	BH-1 (4-6`)	70	72
480-225023-2	BH-11 (0-2`)	70	66
480-225023-3	BH-12 (2-4`)	67	68
LCS 480-730964/2-A	Lab Control Sample	80	75
MB 480-730964/1-A	Method Blank	83	82

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225023-1
Project/Site: The Nest Site Analysis

Method: Draft-3 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)
480-225023-1	BH-1 (4-6`)	88.0	88.7	82.2	87.2	86.3	86.9	85.5	84.6
480-225023-2	BH-11 (0-2`)	88.1	90.1	79.3	87.1	86.8	87.1	76.8	80.3
480-225023-3	BH-12 (2-4`)	86.7	91.9	83.9	88.7	87.2	85.8	79.7	81.2
LCS 240-633740/3-B	Lab Control Sample	86.9	85.8	83.5	85.8	89.5	85.1	79.4	81.9
LLCS 240-633740/2-B	Lab Control Sample	86.9	87.7	82.7	87.3	85.4	84.4	84.9	82.7
MB 240-633740/1-B	Method Blank	85.7	90.1	86.9	93.8	89.1	85.6	82.2	80.3

		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)
480-225023-1	BH-1 (4-6`)	81.4	88.1	87.1	84.7	79.0	80.1	117	98.0
480-225023-2	BH-11 (0-2`)	85.6	87.3	87.4	83.5	75.1	80.3	90.6	97.3
480-225023-3	BH-12 (2-4`)	82.6	82.0	85.9	83.7	80.1	77.4	107	95.0
LCS 240-633740/3-B	Lab Control Sample	84.4	88.3	85.2	83.5	80.5	78.1	103	92.6
LLCS 240-633740/2-B	Lab Control Sample	78.2	87.6	86.6	84.7	81.3	82.4	110	91.4
MB 240-633740/1-B	Method Blank	86.1	82.8	84.3	82.8	82.8	80.5	107	87.3

		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)
480-225023-1	BH-1 (4-6`)	88.4	83.0	91.4	81.5	74.2	65.7	65.5	80.7
480-225023-2	BH-11 (0-2`)	89.4	83.6	90.0	81.8	77.9	71.3	67.3	77.4
480-225023-3	BH-12 (2-4`)	86.4	75.4	92.8	83.6	76.3	71.8	64.2	77.6
LCS 240-633740/3-B	Lab Control Sample	84.8	77.3	90.0	77.7	74.3	66.0	63.1	80.6
LLCS 240-633740/2-B	Lab Control Sample	86.2	79.2	95.4	79.3	73.7	63.7	60.0	81.4
MB 240-633740/1-B	Method Blank	81.6	85.5	94.4	82.7	78.5	70.0	65.8	81.3

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

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225023-1
Project/Site: The Nest Site Analysis

PFDoDA = 13C2-PFDoDA

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

Lab Sample ID: MB 480-730998/2-A
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730998

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
2-Hexanone	25	U	25	2.5	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Acetone	25	U	25	4.2	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Benzene	5.0	U	5.0	0.25	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Chloroform	0.643	J	5.0	0.31	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Chloromethane	5.0	U	5.0	0.30	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Methyl acetate	25	U	25	3.0	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Styrene	5.0	U	5.0	0.25	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Toluene	5.0	U	5.0	0.38	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		11/03/24 16:35	11/03/24 20:09	1
Xylenes, Total	10	U	10	0.84	ug/Kg		11/03/24 16:35	11/03/24 20:09	1

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

Lab Sample ID: MB 480-730998/2-A
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730998

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	11/03/24 16:35	11/03/24 20:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		71 - 125	11/03/24 16:35	11/03/24 20:09	1
1,2-Dichloroethane-d4 (Surr)	94		64 - 126	11/03/24 16:35	11/03/24 20:09	1
4-Bromofluorobenzene (Surr)	83		72 - 126	11/03/24 16:35	11/03/24 20:09	1
Dibromofluoromethane (Surr)	91		60 - 140	11/03/24 16:35	11/03/24 20:09	1

Lab Sample ID: LCS 480-730998/1-A
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.4		ug/Kg		95	77 - 121
1,1,2,2-Tetrachloroethane	50.0	53.0		ug/Kg		106	80 - 120
1,1,2-Trichloroethane	50.0	48.8		ug/Kg		98	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.1		ug/Kg		98	60 - 140
1,1-Dichloroethane	50.0	50.5		ug/Kg		101	73 - 126
1,1-Dichloroethene	50.0	50.0		ug/Kg		100	59 - 125
1,2,4-Trichlorobenzene	50.0	45.7		ug/Kg		91	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	48.9		ug/Kg		98	63 - 124
1,2-Dichlorobenzene	50.0	48.6		ug/Kg		97	75 - 120
1,2-Dichloroethane	50.0	48.1		ug/Kg		96	77 - 122
1,2-Dichloropropane	50.0	49.9		ug/Kg		100	75 - 124
1,3-Dichlorobenzene	50.0	48.8		ug/Kg		98	74 - 120
1,4-Dichlorobenzene	50.0	47.9		ug/Kg		96	73 - 120
2-Butanone (MEK)	250	268		ug/Kg		107	70 - 134
2-Hexanone	250	288		ug/Kg		115	59 - 130
4-Methyl-2-pentanone (MIBK)	250	290		ug/Kg		116	65 - 133
Acetone	250	257		ug/Kg		103	61 - 137
Benzene	50.0	48.5		ug/Kg		97	79 - 127
Bromodichloromethane	50.0	45.3		ug/Kg		91	80 - 122
Bromoform	50.0	43.1		ug/Kg		86	68 - 126
Bromomethane	50.0	42.2		ug/Kg		84	37 - 149
Carbon disulfide	50.0	49.8		ug/Kg		100	64 - 131
Carbon tetrachloride	50.0	44.9		ug/Kg		90	75 - 135
Chlorobenzene	50.0	47.8		ug/Kg		96	76 - 124
Dibromochloromethane	50.0	47.5		ug/Kg		95	76 - 125
Chloroethane	50.0	48.4		ug/Kg		97	69 - 135
Chloroform	50.0	45.6		ug/Kg		91	80 - 120
Chloromethane	50.0	49.2		ug/Kg		98	63 - 127
cis-1,2-Dichloroethene	50.0	46.3		ug/Kg		93	81 - 120
cis-1,3-Dichloropropene	50.0	45.9		ug/Kg		92	80 - 120
Cyclohexane	50.0	54.9		ug/Kg		110	65 - 120
Dichlorodifluoromethane	50.0	40.0		ug/Kg		80	57 - 142
Ethylbenzene	50.0	49.6		ug/Kg		99	80 - 120
1,2-Dibromoethane	50.0	46.4		ug/Kg		93	78 - 120

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

Lab Sample ID: LCS 480-730998/1-A
Matrix: Solid
Analysis Batch: 731000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	50.0	49.3		ug/Kg		99	72 - 120
Methyl acetate	100	107		ug/Kg		107	55 - 136
Methyl tert-butyl ether	50.0	45.4		ug/Kg		91	63 - 125
Methylcyclohexane	50.0	49.8		ug/Kg		100	60 - 140
Methylene Chloride	50.0	47.5		ug/Kg		95	61 - 127
Styrene	50.0	47.4		ug/Kg		95	80 - 120
Tetrachloroethene	50.0	46.4		ug/Kg		93	74 - 122
Toluene	50.0	49.9		ug/Kg		100	74 - 128
trans-1,2-Dichloroethene	50.0	48.1		ug/Kg		96	78 - 126
trans-1,3-Dichloropropene	50.0	46.3		ug/Kg		93	73 - 123
Trichloroethene	50.0	46.9		ug/Kg		94	77 - 129
Trichlorofluoromethane	50.0	44.7		ug/Kg		89	65 - 146
Vinyl chloride	50.0	48.0		ug/Kg		96	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 126*
4-Bromofluorobenzene (Surr)	*85*		*72 - 126*
Dibromofluoromethane (Surr)	*90*		*60 - 140*

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

Lab Sample ID: MB 480-730963/1-A
Matrix: Solid
Analysis Batch: 731034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	55	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2,4,5-Trichlorophenol	170	U	170	46	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2,4,6-Trichlorophenol	170	U	170	34	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2,4-Dichlorophenol	170	U	170	18	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2,4-Dimethylphenol	170	U	170	41	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2,4-Dinitrophenol	1700	U	1700	780	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2,4-Dinitrotoluene	170	U	170	35	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2,6-Dinitrotoluene	170	U	170	20	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2-Chloronaphthalene	170	U	170	28	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2-Chlorophenol	330	U	330	31	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2-Methylnaphthalene	170	U	170	34	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2-Methylphenol	170	U	170	20	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2-Nitroaniline	330	U	330	25	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
2-Nitrophenol	170	U	170	48	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
3,3'-Dichlorobenzidine	330	U	330	200	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
3-Nitroaniline	330	U	330	47	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
4,6-Dinitro-2-methylphenol	330	U	330	170	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
4-Bromophenyl phenyl ether	170	U	170	24	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
4-Chloro-3-methylphenol	170	U	170	42	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
4-Chloroaniline	170	U	170	42	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
4-Chlorophenyl phenyl ether	170	U	170	21	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
4-Methylphenol	330	U	330	20	ug/Kg		11/03/24 06:49	11/04/24 16:01	1

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

Lab Sample ID: MB 480-730963/1-A
Matrix: Solid
Analysis Batch: 731034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	330	U	330	89	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
4-Nitrophenol	330	U	330	120	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Acenaphthene	170	U	170	25	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Acenaphthylene	170	U	170	22	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Acetophenone	170	U	170	23	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Anthracene	170	U	170	42	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Atrazine	170	U	170	59	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Benzaldehyde	170	U	170	140	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Biphenyl	170	U	170	25	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
bis (2-chloroisopropyl) ether	170	U	170	34	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Bis(2-chloroethoxy)methane	170	U	170	36	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Bis(2-chloroethyl)ether	170	U	170	22	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Bis(2-ethylhexyl) phthalate	170	U	170	58	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Butyl benzyl phthalate	170	U	170	28	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Caprolactam	170	U	170	51	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Carbazole	170	U	170	20	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Chrysene	170	U	170	38	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Dibenzofuran	170	U	170	20	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Diethyl phthalate	170	U	170	22	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Dimethyl phthalate	170	U	170	20	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Di-n-butyl phthalate	170	U	170	29	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Di-n-octyl phthalate	170	U	170	20	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Fluoranthene	170	U	170	18	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Fluorene	170	U	170	20	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Hexachlorobenzene	170	U	170	23	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Hexachlorobutadiene	170	U	170	25	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Hexachlorocyclopentadiene	170	U	170	23	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Hexachloroethane	170	U	170	22	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Isophorone	170	U	170	36	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Naphthalene	170	U	170	22	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Nitrobenzene	170	U	170	19	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
N-Nitrosodi-n-propylamine	170	U	170	29	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
N-Nitrosodiphenylamine	170	U	170	140	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Pentachlorophenol	330	U	330	170	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Phenanthrene	170	U	170	25	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Phenol	170	U	170	26	ug/Kg		11/03/24 06:49	11/04/24 16:01	1
Pyrene	170	U	170	20	ug/Kg		11/03/24 06:49	11/04/24 16:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*26 - 143*	*11/03/24 06:49*	*11/04/24 16:01*	*1*
2-Fluorobiphenyl (Surr)	*84*		*50 - 121*	*11/03/24 06:49*	*11/04/24 16:01*	*1*

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

Lab Sample ID: MB 480-730963/1-A
Matrix: Solid
Analysis Batch: 731034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730963

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	84		36 - 120	11/03/24 06:49	11/04/24 16:01	1
Nitrobenzene-d5 (Surr)	76		40 - 121	11/03/24 06:49	11/04/24 16:01	1
Phenol-d5 (Surr)	86		41 - 120	11/03/24 06:49	11/04/24 16:01	1
p-Terphenyl-d14 (Surr)	90		46 - 143	11/03/24 06:49	11/04/24 16:01	1

Lab Sample ID: LCS 480-730963/2-A
Matrix: Solid
Analysis Batch: 731034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1330	763		ug/Kg		57	23 - 120
2,4,5-Trichlorophenol	1330	1320		ug/Kg		99	59 - 126
2,4,6-Trichlorophenol	1330	1390		ug/Kg		104	59 - 123
2,4-Dichlorophenol	1330	1290		ug/Kg		97	61 - 120
2,4-Dimethylphenol	1330	1330		ug/Kg		100	59 - 120
2,4-Dinitrophenol	2670	2820		ug/Kg		106	41 - 146
2,4-Dinitrotoluene	1330	1400		ug/Kg		105	63 - 120
2,6-Dinitrotoluene	1330	1330		ug/Kg		100	66 - 120
2-Chloronaphthalene	1330	1250		ug/Kg		94	57 - 120
2-Chlorophenol	1330	1250		ug/Kg		94	53 - 120
2-Methylnaphthalene	1330	1210		ug/Kg		91	59 - 120
2-Methylphenol	1330	1300		ug/Kg		97	54 - 120
2-Nitroaniline	1330	1540		ug/Kg		115	61 - 120
2-Nitrophenol	1330	1260		ug/Kg		94	56 - 120
3,3'-Dichlorobenzidine	1330	992		ug/Kg		74	54 - 120
3-Nitroaniline	1330	913		ug/Kg		69	48 - 120
4,6-Dinitro-2-methylphenol	2670	2830		ug/Kg		106	49 - 122
4-Bromophenyl phenyl ether	1330	1400		ug/Kg		105	58 - 120
4-Chloro-3-methylphenol	1330	1360		ug/Kg		102	61 - 120
4-Chloroaniline	1330	613		ug/Kg		46	38 - 120
4-Chlorophenyl phenyl ether	1330	1340		ug/Kg		101	63 - 124
4-Methylphenol	1330	1280		ug/Kg		96	55 - 120
4-Nitroaniline	1330	1270		ug/Kg		95	56 - 120
4-Nitrophenol	2670	2740		ug/Kg		103	43 - 147
Acenaphthene	1330	1260		ug/Kg		94	62 - 120
Acenaphthylene	1330	1340		ug/Kg		100	58 - 121
Acetophenone	1330	1260		ug/Kg		95	54 - 120
Anthracene	1330	1340		ug/Kg		100	62 - 120
Atrazine	1330	1410		ug/Kg		106	60 - 127
Benzaldehyde	1330	1250		ug/Kg		94	10 - 150
Benzo[a]anthracene	1330	1340		ug/Kg		100	65 - 120
Benzo[a]pyrene	1330	1390		ug/Kg		104	64 - 120
Benzo[b]fluoranthene	1330	1390		ug/Kg		104	64 - 120
Benzo[g,h,i]perylene	1330	1430		ug/Kg		107	45 - 145
Benzo[k]fluoranthene	1330	1380		ug/Kg		103	65 - 120
Biphenyl	1330	1270		ug/Kg		95	59 - 120
bis (2-chloroisopropyl) ether	1330	1270		ug/Kg		95	44 - 120
Bis(2-chloroethoxy)methane	1330	1330		ug/Kg		100	55 - 120

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

Lab Sample ID: LCS 480-730963/2-A
Matrix: Solid
Analysis Batch: 731034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	1330	1220		ug/Kg		92	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1450		ug/Kg		109	61 - 133
Butyl benzyl phthalate	1330	1460		ug/Kg		110	61 - 129
Caprolactam	1330	1390		ug/Kg		104	47 - 120
Carbazole	1330	1380		ug/Kg		103	65 - 120
Chrysene	1330	1280		ug/Kg		96	64 - 120
Dibenz(a,h)anthracene	1330	1400		ug/Kg		105	54 - 132
Dibenzofuran	1330	1310		ug/Kg		98	63 - 120
Diethyl phthalate	1330	1450		ug/Kg		109	66 - 120
Dimethyl phthalate	1330	1360		ug/Kg		102	65 - 124
Di-n-butyl phthalate	1330	1460		ug/Kg		109	58 - 130
Di-n-octyl phthalate	1330	1590		ug/Kg		120	57 - 133
Fluoranthene	1330	1480		ug/Kg		111	62 - 120
Fluorene	1330	1360		ug/Kg		102	63 - 120
Hexachlorobenzene	1330	1390		ug/Kg		104	60 - 120
Hexachlorobutadiene	1330	1140		ug/Kg		85	45 - 120
Hexachlorocyclopentadiene	1330	1220		ug/Kg		92	47 - 120
Hexachloroethane	1330	1080		ug/Kg		81	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1390		ug/Kg		104	56 - 134
Isophorone	1330	1370		ug/Kg		103	56 - 120
Naphthalene	1330	1170		ug/Kg		88	55 - 120
Nitrobenzene	1330	1250		ug/Kg		94	54 - 120
N-Nitrosodi-n-propylamine	1330	1330		ug/Kg		100	52 - 120
N-Nitrosodiphenylamine	1330	1410		ug/Kg		106	51 - 128
Pentachlorophenol	2670	2820		ug/Kg		106	10 - 120
Phenanthrene	1330	1340		ug/Kg		101	60 - 120
Phenol	1330	1220		ug/Kg		91	53 - 120
Pyrene	1330	1370		ug/Kg		103	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*107*		*26 - 143*
2-Fluorobiphenyl (Surr)	*92*		*50 - 121*
2-Fluorophenol (Surr)	*93*		*36 - 120*
Nitrobenzene-d5 (Surr)	*88*		*40 - 121*
Phenol-d5 (Surr)	*93*		*41 - 120*
p-Terphenyl-d14 (Surr)	*98*		*46 - 143*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-731139/1-A
Matrix: Solid
Analysis Batch: 731153

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.7	U	1.7	0.32	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
4,4'-DDE	1.7	U	1.7	0.35	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
4,4'-DDT	1.7	U	1.7	0.39	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Aldrin	1.7	U	1.7	0.41	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
alpha-BHC	1.7	U	1.7	0.30	ug/Kg		11/04/24 17:30	11/05/24 09:54	1

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

Lab Sample ID: MB 480-731139/1-A
Matrix: Solid
Analysis Batch: 731153

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	1.7	U	1.7	0.30	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Chlordane (.alpha.)	1.7	U	1.7	0.83	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
delta-BHC	1.7	U	1.7	0.31	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Dieldrin	1.7	U	1.7	0.40	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Endosulfan I	1.7	U	1.7	0.32	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Endosulfan II	1.7	U	1.7	0.30	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Endosulfan sulfate	1.7	U	1.7	0.31	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Endrin	1.7	U	1.7	0.33	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Heptachlor	1.7	U	1.7	0.36	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Lindane	1.7	U	1.7	0.31	ug/Kg		11/04/24 17:30	11/05/24 09:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*45 - 120*	*11/04/24 17:30*	*11/05/24 09:54*	*1*
DCB Decachlorobiphenyl	*74*		*45 - 120*	*11/04/24 17:30*	*11/05/24 09:54*	*1*
Tetrachloro-m-xylene	*59*		*30 - 124*	*11/04/24 17:30*	*11/05/24 09:54*	*1*
Tetrachloro-m-xylene	*64*		*30 - 124*	*11/04/24 17:30*	*11/05/24 09:54*	*1*

Lab Sample ID: LCS 480-731139/2-A
Matrix: Solid
Analysis Batch: 731153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731139

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			16.7	13.6		ug/Kg		82	56 - 120		
4,4'-DDE			16.7	11.6		ug/Kg		70	44 - 120		
4,4'-DDT			16.7	12.3		ug/Kg		74	38 - 120		
Aldrin			16.7	11.3		ug/Kg		68	38 - 120		
alpha-BHC			16.7	9.76		ug/Kg		59	39 - 120		
beta-BHC			16.7	11.1		ug/Kg		66	40 - 120		
Chlordane (.alpha.)			16.7	11.5		ug/Kg		69	47 - 120		
delta-BHC			16.7	10.1		ug/Kg		61	45 - 120		
Dieldrin			16.7	14.5		ug/Kg		87	58 - 120		
Endosulfan I			16.7	13.4		ug/Kg		81	49 - 120		
Endosulfan II			16.7	14.9		ug/Kg		89	55 - 120		
Endosulfan sulfate			16.7	13.4		ug/Kg		80	49 - 124		
Endrin			16.7	14.5		ug/Kg		87	58 - 120		
Heptachlor			16.7	10.6		ug/Kg		63	50 - 120		
Lindane			16.7	10.3		ug/Kg		62	50 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*71*		*45 - 120*
DCB Decachlorobiphenyl	*83*		*45 - 120*
Tetrachloro-m-xylene	*62*		*30 - 124*
Tetrachloro-m-xylene	*70*		*30 - 124*

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

Lab Sample ID: 480-225023-1 MS
Matrix: Solid
Analysis Batch: 731153

Client Sample ID: BH-1 (4-6`)
Prep Type: Total/NA
Prep Batch: 731139

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.7	U	17.3	14.0		ug/Kg	☼	81	37 - 126
4,4'-DDE	1.7	U	17.3	11.5		ug/Kg	☼	66	34 - 120
4,4'-DDT	1.7	U	17.3	12.7		ug/Kg	☼	74	43 - 123
Aldrin	1.7	U	17.3	11.4		ug/Kg	☼	66	37 - 125
alpha-BHC	1.7	U	17.3	11.1		ug/Kg	☼	64	39 - 120
beta-BHC	1.7	U	17.3	12.7		ug/Kg	☼	74	36 - 120
Chlordane (.alpha.)	1.7	U	17.3	12.4		ug/Kg	☼	72	35 - 120
delta-BHC	1.7	U	17.3	11.6		ug/Kg	☼	67	34 - 120
Dieldrin	1.7	U	17.3	15.1		ug/Kg	☼	87	45 - 120
Endosulfan I	1.7	U	17.3	13.0		ug/Kg	☼	76	39 - 120
Endosulfan II	1.7	U	17.3	15.4		ug/Kg	☼	89	34 - 126
Endosulfan sulfate	1.7	U	17.3	14.7		ug/Kg	☼	85	27 - 130
Endrin	1.7	U	17.3	15.1		ug/Kg	☼	88	47 - 121
Heptachlor	1.7	U	17.3	12.1		ug/Kg	☼	70	42 - 120
Lindane	1.7	U	17.3	11.7		ug/Kg	☼	68	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*45 - 120*
DCB Decachlorobiphenyl	*88*		*45 - 120*
Tetrachloro-m-xylene	*68*		*30 - 124*
Tetrachloro-m-xylene	*81*		*30 - 124*

Lab Sample ID: 480-225023-1 MSD
Matrix: Solid
Analysis Batch: 731153

Client Sample ID: BH-1 (4-6`)
Prep Type: Total/NA
Prep Batch: 731139

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	1.7	U	17.4	14.2		ug/Kg	☼	82	37 - 126	2	21
4,4'-DDE	1.7	U	17.4	11.9		ug/Kg	☼	68	34 - 120	4	18
4,4'-DDT	1.7	U	17.4	11.9		ug/Kg	☼	68	43 - 123	7	25
Aldrin	1.7	U	17.4	12.4		ug/Kg	☼	71	37 - 125	9	12
alpha-BHC	1.7	U	17.4	11.3		ug/Kg	☼	65	39 - 120	2	15
beta-BHC	1.7	U	17.4	11.7		ug/Kg	☼	67	36 - 120	8	19
Chlordane (.alpha.)	1.7	U	17.4	13.0		ug/Kg	☼	75	35 - 120	5	23
delta-BHC	1.7	U	17.4	11.8		ug/Kg	☼	68	34 - 120	2	14
Dieldrin	1.7	U	17.4	15.4		ug/Kg	☼	88	45 - 120	2	12
Endosulfan I	1.7	U	17.4	13.7		ug/Kg	☼	79	39 - 120	5	18
Endosulfan II	1.7	U	17.4	15.5		ug/Kg	☼	89	34 - 126	1	26
Endosulfan sulfate	1.7	U	17.4	14.8		ug/Kg	☼	85	27 - 130	1	35
Endrin	1.7	U	17.4	15.5		ug/Kg	☼	89	47 - 121	3	20
Heptachlor	1.7	U	17.4	11.7		ug/Kg	☼	67	42 - 120	4	22
Lindane	1.7	U	17.4	12.0		ug/Kg	☼	69	50 - 120	2	12

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*70*		*45 - 120*
DCB Decachlorobiphenyl	*85*		*45 - 120*
Tetrachloro-m-xylene	*63*		*30 - 124*
Tetrachloro-m-xylene	*72*		*30 - 124*

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

Lab Sample ID: MB 480-730899/1-A
Matrix: Solid
Analysis Batch: 730922

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730899

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.25	U	0.25	0.049	mg/Kg		11/01/24 17:55	11/02/24 21:02	1
PCB-1221	0.25	U	0.25	0.049	mg/Kg		11/01/24 17:55	11/02/24 21:02	1
PCB-1232	0.25	U	0.25	0.049	mg/Kg		11/01/24 17:55	11/02/24 21:02	1
PCB-1242	0.25	U	0.25	0.049	mg/Kg		11/01/24 17:55	11/02/24 21:02	1
PCB-1248	0.25	U	0.25	0.049	mg/Kg		11/01/24 17:55	11/02/24 21:02	1
PCB-1254	0.25	U	0.25	0.12	mg/Kg		11/01/24 17:55	11/02/24 21:02	1
PCB-1260	0.25	U	0.25	0.12	mg/Kg		11/01/24 17:55	11/02/24 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*60 - 154*	*11/01/24 17:55*	*11/02/24 21:02*	*1*
Tetrachloro-m-xylene	*107*		*60 - 154*	*11/01/24 17:55*	*11/02/24 21:02*	*1*
DCB Decachlorobiphenyl	*104*		*65 - 174*	*11/01/24 17:55*	*11/02/24 21:02*	*1*
DCB Decachlorobiphenyl	*134*		*65 - 174*	*11/01/24 17:55*	*11/02/24 21:02*	*1*

Lab Sample ID: LCS 480-730899/2-A
Matrix: Solid
Analysis Batch: 730922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730899

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			2.50	2.99		mg/Kg		120	51 - 185		
PCB-1260			2.50	3.28		mg/Kg		131	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*124*		*60 - 154*
Tetrachloro-m-xylene	*120*		*60 - 154*
DCB Decachlorobiphenyl	*113*		*65 - 174*
DCB Decachlorobiphenyl	*147*		*65 - 174*

Lab Sample ID: 480-225023-1 MS
Matrix: Solid
Analysis Batch: 730922

Client Sample ID: BH-1 (4-6`)
Prep Type: Total/NA
Prep Batch: 730899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	0.21	U	2.25	2.72		mg/Kg	☼	121	50 - 177		
PCB-1260	0.21	U	2.25	3.05		mg/Kg	☼	136	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*134*		*60 - 154*
Tetrachloro-m-xylene	*134*		*60 - 154*
DCB Decachlorobiphenyl	*123*		*65 - 174*
DCB Decachlorobiphenyl	*160*		*65 - 174*

Lab Sample ID: 480-225023-1 MSD
Matrix: Solid
Analysis Batch: 730922

Client Sample ID: BH-1 (4-6`)
Prep Type: Total/NA
Prep Batch: 730899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.21	U	2.01	2.54		mg/Kg	☼	126	50 - 177	7	50

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

Lab Sample ID: 480-225023-1 MSD
Matrix: Solid
Analysis Batch: 730922

Client Sample ID: BH-1 (4-6`)
Prep Type: Total/NA
Prep Batch: 730899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1260	0.21	U	2.01	2.85		mg/Kg	☼	142	33 - 200	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*133*		*60 - 154*
Tetrachloro-m-xylene	*127*		*60 - 154*
DCB Decachlorobiphenyl	*126*		*65 - 174*
DCB Decachlorobiphenyl	*161*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-730964/1-A
Matrix: Solid
Analysis Batch: 731215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.0	ug/Kg		11/03/24 06:56	11/05/24 12:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*28 - 129*	*11/03/24 06:56*	*11/05/24 12:39*	*1*
2,4-Dichlorophenylacetic acid	*82*		*28 - 129*	*11/03/24 06:56*	*11/05/24 12:39*	*1*

Lab Sample ID: LCS 480-730964/2-A
Matrix: Solid
Analysis Batch: 731215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730964

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)			66.7	48.7		ug/Kg		73	39 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*80*		*28 - 129*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-633740/1-B
Matrix: Solid
Analysis Batch: 634034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633740

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.80	U	0.80	0.20	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.10	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-633740/1-B
Matrix: Solid
Analysis Batch: 634034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633740

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.0	U	2.0	0.50	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0	U	2.0	0.50	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	0.80	0.20	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	0.80	0.20	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.10	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.10	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.80	U	0.80	0.20	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.80	U	0.80	0.20	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.10	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	1.0	0.25	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.050	ug/Kg		11/05/24 08:10	11/05/24 17:57	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.10	ug/Kg		11/05/24 08:10	11/05/24 17:57	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	85.7		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C5 PFPeA	90.1		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C5 PFHxA	86.9		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C4 PFHpA	93.8		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C8 PFOA	89.1		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C9 PFNA	85.6		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C6 PFDA	82.2		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C7 PFUnA	80.3		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C2 PFTeDA	86.1		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C3 PFBS	82.8		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C3 PFHxS	84.3		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C8 PFOS	82.8		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C8 PFOSA	82.8		20 - 150	11/05/24 08:10	11/05/24 17:57	1
d3-NMeFOSAA	80.5		20 - 150	11/05/24 08:10	11/05/24 17:57	1
d5-NEtFOSAA	107		20 - 150	11/05/24 08:10	11/05/24 17:57	1
M2-4:2 FTS	87.3		20 - 150	11/05/24 08:10	11/05/24 17:57	1
M2-6:2 FTS	81.6		20 - 150	11/05/24 08:10	11/05/24 17:57	1
M2-8:2 FTS	85.5		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C3 HFPO-DA	94.4		20 - 150	11/05/24 08:10	11/05/24 17:57	1
d7-N-MeFOSE-M	82.7		20 - 150	11/05/24 08:10	11/05/24 17:57	1
d9-N-EtFOSE-M	78.5		20 - 150	11/05/24 08:10	11/05/24 17:57	1
d5-NEtPFOSA	70.0		20 - 150	11/05/24 08:10	11/05/24 17:57	1
D3-NMeFOSA	65.8		20 - 150	11/05/24 08:10	11/05/24 17:57	1
13C2-PFDoDA	81.3		20 - 150	11/05/24 08:10	11/05/24 17:57	1

Lab Sample ID: LCS 240-633740/3-B — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 634034 — **Prep Batch: 633740**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	10.0	12.7		ug/Kg		127	40 - 150
Perfluoropentanoic acid (PFPeA)	5.00	5.61		ug/Kg		112	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	3.03		ug/Kg		121	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.81		ug/Kg		112	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.83		ug/Kg		113	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.94		ug/Kg		118	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	3.09		ug/Kg		124	40 - 150
Perfluoroundecanoic acid (PFUnA)	2.50	2.90		ug/Kg		116	40 - 150
Perfluorododecanoic acid (PFDoA)	2.50	2.99		ug/Kg		120	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.84		ug/Kg		114	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.80		ug/Kg		112	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.21	2.55		ug/Kg		116	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.81		ug/Kg		120	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.69		ug/Kg		118	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.38	2.87		ug/Kg		121	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-633740/3-B
Matrix: Solid
Analysis Batch: 634034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633740

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.32	2.85		ug/Kg		123	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	2.80		ug/Kg		117	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	2.74		ug/Kg		113	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	10.6		ug/Kg		114	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	11.4		ug/Kg		120	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	12.3		ug/Kg		129	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.94		ug/Kg		117	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	3.14		ug/Kg		126	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.99		ug/Kg		120	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	3.12		ug/Kg		125	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.65		ug/Kg		106	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	30.0		ug/Kg		120	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	29.9		ug/Kg		120	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	12.8		ug/Kg		128	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	10.4		ug/Kg		111	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.00	5.74		ug/Kg		115	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.00	5.92		ug/Kg		118	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.32	10.1		ug/Kg		108	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	9.42	9.70		ug/Kg		103	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.45	5.16		ug/Kg		116	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	12.5	14.4		ug/Kg		115	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	62.5	71.1		ug/Kg		114	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	62.5	69.0		ug/Kg		110	40 - 150
Perfluorodecanesulfonic acid (PFDS)	2.41	2.81		ug/Kg		117	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.00	5.74		ug/Kg		115	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*86.9*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-633740/3-B
Matrix: Solid
Analysis Batch: 634034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633740

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C5 PFPeA	*85.8*		*20 - 150*
13C5 PFHxA	*83.5*		*20 - 150*
13C4 PFHpA	*85.8*		*20 - 150*
13C8 PFOA	*89.5*		*20 - 150*
13C9 PFNA	*85.1*		*20 - 150*
13C6 PFDA	*79.4*		*20 - 150*
13C7 PFUnA	*81.9*		*20 - 150*
13C2 PFTeDA	*84.4*		*20 - 150*
13C3 PFBS	*88.3*		*20 - 150*
13C3 PFHxS	*85.2*		*20 - 150*
13C8 PFOS	*83.5*		*20 - 150*
13C8 PFOSA	*80.5*		*20 - 150*
d3-NMeFOSAA	*78.1*		*20 - 150*
d5-NEtFOSAA	*103*		*20 - 150*
M2-4:2 FTS	*92.6*		*20 - 150*
M2-6:2 FTS	*84.8*		*20 - 150*
M2-8:2 FTS	*77.3*		*20 - 150*
13C3 HFPO-DA	*90.0*		*20 - 150*
d7-N-MeFOSE-M	*77.7*		*20 - 150*
d9-N-EtFOSE-M	*74.3*		*20 - 150*
d5-NEtPFOSA	*66.0*		*20 - 150*
D3-NMeFOSA	*63.1*		*20 - 150*
13C2-PFDoDA	*80.6*		*20 - 150*

Lab Sample ID: LLCS 240-633740/2-B
Matrix: Solid
Analysis Batch: 634034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633740

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	1.08		ug/Kg		135	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.447		ug/Kg		112	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.230		ug/Kg		115	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.224		ug/Kg		112	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.243		ug/Kg		121	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.262		ug/Kg		131	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.219		ug/Kg		110	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.200	0.213		ug/Kg		106	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.236		ug/Kg		118	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.242		ug/Kg		121	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.225		ug/Kg		112	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.199	J	ug/Kg		112	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.215		ug/Kg		115	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.210		ug/Kg		116	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-633740/2-B
Matrix: Solid
Analysis Batch: 634034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633740

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.205		ug/Kg		108	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.186	0.220		ug/Kg		119	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.192	0.230		ug/Kg		120	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.200		ug/Kg		104	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.928		ug/Kg		124	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.928		ug/Kg		122	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.993		ug/Kg		130	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.227		ug/Kg		113	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.279		ug/Kg		140	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.227		ug/Kg		114	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.259		ug/Kg		130	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.242		ug/Kg		121	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.45		ug/Kg		123	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	2.43		ug/Kg		122	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	0.863		ug/Kg		108	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.789	J	ug/Kg		105	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.400	0.443		ug/Kg		111	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.400	0.462		ug/Kg		116	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.746	0.744	J	ug/Kg		100	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.754	0.725	J	ug/Kg		96	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.356	0.440		ug/Kg		124	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.00	1.11		ug/Kg		111	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.00	6.13		ug/Kg		123	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.00	5.62		ug/Kg		112	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.193	0.208		ug/Kg		108	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.400	0.458		ug/Kg		114	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFBA	86.9		20 - 150
13C5 PFPeA	87.7		20 - 150
13C5 PFHxA	82.7		20 - 150
13C4 PFHpA	87.3		20 - 150
13C8 PFOA	85.4		20 - 150
13C9 PFNA	84.4		20 - 150
13C6 PFDA	84.9		20 - 150
13C7 PFUnA	82.7		20 - 150
13C2 PFTeDA	78.2		20 - 150
13C3 PFBS	87.6		20 - 150
13C3 PFHxS	86.6		20 - 150
13C8 PFOS	84.7		20 - 150
13C8 PFOSA	81.3		20 - 150
d3-NMeFOSAA	82.4		20 - 150
d5-NEtFOSAA	110		20 - 150
M2-4:2 FTS	91.4		20 - 150
M2-6:2 FTS	86.2		20 - 150
M2-8:2 FTS	79.2		20 - 150
13C3 HFPO-DA	95.4		20 - 150
d7-N-MeFOSE-M	79.3		20 - 150
d9-N-EtFOSE-M	73.7		20 - 150
d5-NEtPFOSA	63.7		20 - 150
D3-NMeFOSA	60.0		20 - 150
13C2-PFDoDA	81.4		20 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-730847/1-A
Matrix: Solid
Analysis Batch: 731161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10.1	U	10.1	8.7	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Antimony	15.2	U	15.2	0.54	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Arsenic	2.0	U	2.0	0.89	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Barium	0.51	U	0.51	0.14	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Beryllium	0.20	U ^5-	0.20	0.041	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Cadmium	0.20	U	0.20	0.071	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Calcium	50.7	U ^5-	50.7	27.4	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Chromium	0.51	U ^5-	0.51	0.37	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Cobalt	0.51	U	0.51	0.10	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Copper	1.0	U ^5+	1.0	0.58	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Iron	10.1	U ^5-	10.1	8.6	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Lead	1.0	U	1.0	0.47	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Magnesium	20.3	U	20.3	8.6	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Manganese	1.0	U	1.0	0.28	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Nickel	5.1	U	5.1	0.25	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Potassium	30.4	U	30.4	24.6	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Selenium	4.1	U	4.1	0.81	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Silver	0.61	U ^5-	0.61	0.20	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Sodium	142	U	142	62.2	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Thallium	6.1	U	6.1	0.77	mg/Kg		11/01/24 15:14	11/04/24 14:36	1

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

Lab Sample ID: MB 480-730847/1-A
Matrix: Solid
Analysis Batch: 731161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.51	U	0.51	0.13	mg/Kg		11/01/24 15:14	11/04/24 14:36	1
Zinc	2.0	U ^5-	2.0	1.0	mg/Kg		11/01/24 15:14	11/04/24 14:36	1

Lab Sample ID: LCSSRM 480-730847/2-A
Matrix: Solid
Analysis Batch: 731161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730847

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6780	5467		mg/Kg		80.6	47.8 - 151.9
Antimony	127	87.70		mg/Kg		69.1	20.2 - 250.4
Arsenic	311	219.9		mg/Kg		70.7	70.1 - 130.2
Barium	304	232.5		mg/Kg		76.5	75.0 - 125.0
Beryllium	169	128.1		mg/Kg		75.8	75.1 - 124.9
Cadmium	212	163.6		mg/Kg		77.2	75.0 - 125.0
Chromium	180	151.3		mg/Kg		84.0	70.0 - 130.0
Cobalt	81.6	66.23		mg/Kg		81.2	75.0 - 125.0
Copper	205	156.1		mg/Kg		76.1	75.1 - 124.9
Iron	6510	5323		mg/Kg		81.8	11.3 - 202.8
Magnesium	1700	1224		mg/Kg		72.0	55.6 - 144.1
Nickel	313	263.6		mg/Kg		84.2	70.0 - 130.0
Potassium	1370	1052		mg/Kg		76.8	52.0 - 148.2
Silver	82.4	58.76		mg/Kg		71.3	71.0 - 128.6
Sodium	486	369.0		mg/Kg		75.9	59.5 - 140.5
Thallium	205	171.0		mg/Kg		83.4	72.2 - 128.3
Vanadium	103	82.16		mg/Kg		79.8	68.0 - 132.0
Zinc	166	126.7		mg/Kg		76.3	70.5 - 130.1

Lab Sample ID: LCSSRM 480-730847/2-A
Matrix: Solid
Analysis Batch: 731265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730847

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5170	3952		mg/Kg		76.4	72.9 - 126.9
Lead	92.8	77.67		mg/Kg		83.7	81.8 - 118.5

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

Lab Sample ID: LCSSRM 480-730847/2-A
Matrix: Solid
Analysis Batch: 731265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730847

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	531	412.1		mg/Kg		77.6	77.2 - 122.8
Selenium	165	113.6		mg/Kg		68.9	67.9 - 132.1

Lab Sample ID: 480-225023-2 MS
Matrix: Solid
Analysis Batch: 731161

Client Sample ID: BH-11 (0-2`)
Prep Type: Total/NA
Prep Batch: 730847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2360	F1 F2	1060	2811	F1	mg/Kg	☼	43	75 - 125
Antimony	17.1	U	104	90.91		mg/Kg	☼	88	75 - 125
Arsenic	2.3	U	207	172.9		mg/Kg	☼	83	75 - 125
Barium	12.9		207	194.8		mg/Kg	☼	88	75 - 125
Beryllium	0.11	J	104	86.41		mg/Kg	☼	83	75 - 125
Cadmium	0.84		104	97.51		mg/Kg	☼	93	75 - 125
Chromium	4.5		104	89.68		mg/Kg	☼	82	75 - 125
Cobalt	0.98		104	97.32		mg/Kg	☼	93	75 - 125
Copper	4.0		104	117.0		mg/Kg	☼	109	75 - 125
Iron	4260	F2	1060	4251	4	mg/Kg	☼	-0.7	75 - 125
Lead	16.4		104	115.7		mg/Kg	☼	96	75 - 125
Manganese	768		104	691.9	4	mg/Kg	☼	-74	75 - 125
Nickel	2.8	J	104	99.00		mg/Kg	☼	93	75 - 125
Potassium	460		5180	5551		mg/Kg	☼	98	75 - 125
Selenium	4.6	U	207	163.7		mg/Kg	☼	79	75 - 125
Silver	0.68	U	10.4	9.80		mg/Kg	☼	95	75 - 125
Sodium	178		5180	5217		mg/Kg	☼	97	75 - 125
Thallium	0.91	J	207	186.0		mg/Kg	☼	89	75 - 125
Vanadium	4.6		104	93.62		mg/Kg	☼	86	75 - 125
Zinc	150	F1	104	156.4	F1	mg/Kg	☼	6	75 - 125

Lab Sample ID: 480-225023-2 MS
Matrix: Solid
Analysis Batch: 731265

Client Sample ID: BH-11 (0-2`)
Prep Type: Total/NA
Prep Batch: 730847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	192000		5180	211600	4	mg/Kg	☼	388	75 - 125
Magnesium	115000		5180	129700	4	mg/Kg	☼	277	75 - 125

Lab Sample ID: 480-225023-2 MSD
Matrix: Solid
Analysis Batch: 731161

Client Sample ID: BH-11 (0-2`)
Prep Type: Total/NA
Prep Batch: 730847

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	2360	F1 F2	1060	4076	F1 F2	mg/Kg	☼	163	75 - 125	37	20
Antimony	17.1	U	103	85.80		mg/Kg	☼	83	75 - 125	6	20
Arsenic	2.3	U	207	172.4		mg/Kg	☼	83	75 - 125	0	20
Barium	12.9		207	204.4		mg/Kg	☼	93	75 - 125	5	20
Beryllium	0.11	J	103	87.27		mg/Kg	☼	84	75 - 125	1	20
Cadmium	0.84		103	96.61		mg/Kg	☼	93	75 - 125	1	20

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

Lab Sample ID: 480-225023-2 MSD
Matrix: Solid
Analysis Batch: 731161

Client Sample ID: BH-11 (0-2`)
Prep Type: Total/NA
Prep Batch: 730847

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	4.5		103	91.04		mg/Kg	☼	84	75 - 125	2	20
Cobalt	0.98		103	98.07		mg/Kg	☼	94	75 - 125	1	20
Copper	4.0		103	116.8		mg/Kg	☼	109	75 - 125	0	20
Iron	4260	F2	1060	5224	4 F2	mg/Kg	☼	91	75 - 125	21	20
Lead	16.4		103	128.4		mg/Kg	☼	108	75 - 125	10	20
Manganese	768		103	722.5	4	mg/Kg	☼	-44	75 - 125	4	20
Nickel	2.8	J	103	100.8		mg/Kg	☼	95	75 - 125	2	20
Potassium	460		5170	5903		mg/Kg	☼	105	75 - 125	6	20
Selenium	4.6	U	207	161.8		mg/Kg	☼	78	75 - 125	1	20
Silver	0.68	U	10.3	9.73		mg/Kg	☼	94	75 - 125	1	20
Sodium	178		5170	5121		mg/Kg	☼	96	75 - 125	2	20
Thallium	0.91	J	207	187.9		mg/Kg	☼	90	75 - 125	1	20
Vanadium	4.6		103	95.59		mg/Kg	☼	88	75 - 125	2	20
Zinc	150	F1	103	185.4	F1	mg/Kg	☼	34	75 - 125	17	20

Lab Sample ID: 480-225023-2 MSD
Matrix: Solid
Analysis Batch: 731265

Client Sample ID: BH-11 (0-2`)
Prep Type: Total/NA
Prep Batch: 730847

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	192000		5170	193700	4	mg/Kg	☼	42	75 - 125	9	20
Magnesium	115000		5170	117300	4	mg/Kg	☼	37	75 - 125	10	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-731026/1-A
Matrix: Solid
Analysis Batch: 731116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	U	0.021	0.0048	mg/Kg		11/04/24 10:01	11/04/24 13:55	1

Lab Sample ID: LCSSRM 480-731026/2-A ^10
Matrix: Solid
Analysis Batch: 731116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731026

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	11.9	10.44		mg/Kg		87.7	59.8 - 139.5

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-1006455/1-A
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		11/12/24 09:00	11/12/24 11:00	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSI 460-1006455/3-A
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	672.5		mg/Kg		95	80 - 120

Lab Sample ID: LCSSRM 460-1006455/2-A
Matrix: Solid
Analysis Batch: 1006466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1006455

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	14.9	13.36		mg/Kg		89.4	84.2 - 114.5

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-731281/1-A
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.98	U	0.98	0.47	mg/Kg		11/05/24 14:00	11/05/24 17:42	1

Lab Sample ID: LCS 480-731281/3-A
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.389		mg/Kg		97	29 - 122

Lab Sample ID: LCS 480-731281/4-A
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.260		mg/Kg		104	29 - 122

Lab Sample ID: LCSSRM 480-731281/2-A
Matrix: Solid
Analysis Batch: 731288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731281

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	79.67		mg/Kg		53.1	38.9 - 138.7

GC/MS VOA

Prep Batch: 730998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	5035A_L	
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	5035A_L	
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	5035A_L	
MB 480-730998/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-730998/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 731000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	8260C	730998
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	8260C	730998
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	8260C	730998
MB 480-730998/2-A	Method Blank	Total/NA	Solid	8260C	730998
LCS 480-730998/1-A	Lab Control Sample	Total/NA	Solid	8260C	730998

GC/MS Semi VOA

Prep Batch: 730963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	3550C	
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	3550C	
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	3550C	
MB 480-730963/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-730963/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 731034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	8270D	730963
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	8270D	730963
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	8270D	730963
MB 480-730963/1-A	Method Blank	Total/NA	Solid	8270D	730963
LCS 480-730963/2-A	Lab Control Sample	Total/NA	Solid	8270D	730963

GC Semi VOA

Prep Batch: 730899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	3550C	
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	3550C	
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	3550C	
MB 480-730899/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-730899/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-225023-1 MS	BH-1 (4-6`)	Total/NA	Solid	3550C	
480-225023-1 MSD	BH-1 (4-6`)	Total/NA	Solid	3550C	

Analysis Batch: 730922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	8082A	730899
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	8082A	730899
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	8082A	730899
MB 480-730899/1-A	Method Blank	Total/NA	Solid	8082A	730899
LCS 480-730899/2-A	Lab Control Sample	Total/NA	Solid	8082A	730899
480-225023-1 MS	BH-1 (4-6`)	Total/NA	Solid	8082A	730899

GC Semi VOA (Continued)

Analysis Batch: 730922 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1 MSD	BH-1 (4-6`)	Total/NA	Solid	8082A	730899

Prep Batch: 730964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	8151A	
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	8151A	
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	8151A	
MB 480-730964/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-730964/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Prep Batch: 731139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	3550C	
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	3550C	
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	3550C	
MB 480-731139/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-731139/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-225023-1 MS	BH-1 (4-6`)	Total/NA	Solid	3550C	
480-225023-1 MSD	BH-1 (4-6`)	Total/NA	Solid	3550C	

Analysis Batch: 731153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	8081B	731139
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	8081B	731139
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	8081B	731139
MB 480-731139/1-A	Method Blank	Total/NA	Solid	8081B	731139
LCS 480-731139/2-A	Lab Control Sample	Total/NA	Solid	8081B	731139
480-225023-1 MS	BH-1 (4-6`)	Total/NA	Solid	8081B	731139
480-225023-1 MSD	BH-1 (4-6`)	Total/NA	Solid	8081B	731139

Analysis Batch: 731215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	8151A	730964
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	8151A	730964
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	8151A	730964
MB 480-730964/1-A	Method Blank	Total/NA	Solid	8151A	730964
LCS 480-730964/2-A	Lab Control Sample	Total/NA	Solid	8151A	730964

LCMS

Prep Batch: 633740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	1633 Shake	
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	1633 Shake	
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	1633 Shake	
MB 240-633740/1-B	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-633740/3-B	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-633740/2-B	Lab Control Sample	Total/NA	Solid	1633 Shake	

LCMS

Analysis Batch: 634034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	Draft-3 1633	633740
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	Draft-3 1633	633740
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	Draft-3 1633	633740
MB 240-633740/1-B	Method Blank	Total/NA	Solid	Draft-3 1633	633740
LCS 240-633740/3-B	Lab Control Sample	Total/NA	Solid	Draft-3 1633	633740
LLCS 240-633740/2-B	Lab Control Sample	Total/NA	Solid	Draft-3 1633	633740

Metals

Prep Batch: 730847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	3050B	
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	3050B	
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	3050B	
MB 480-730847/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-730847/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-225023-2 MS	BH-11 (0-2`)	Total/NA	Solid	3050B	
480-225023-2 MSD	BH-11 (0-2`)	Total/NA	Solid	3050B	

Prep Batch: 731026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	7471B	
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	7471B	
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	7471B	
MB 480-731026/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-731026/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 731116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	7471B	731026
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	7471B	731026
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	7471B	731026
MB 480-731026/1-A	Method Blank	Total/NA	Solid	7471B	731026
LCSSRM 480-731026/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	731026

Analysis Batch: 731161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	6010C	730847
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	6010C	730847
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	6010C	730847
MB 480-730847/1-A	Method Blank	Total/NA	Solid	6010C	730847
LCSSRM 480-730847/2-A	Lab Control Sample	Total/NA	Solid	6010C	730847
480-225023-2 MS	BH-11 (0-2`)	Total/NA	Solid	6010C	730847
480-225023-2 MSD	BH-11 (0-2`)	Total/NA	Solid	6010C	730847

Analysis Batch: 731265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	6010C	730847
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	6010C	730847
LCSSRM 480-730847/2-A	Lab Control Sample	Total/NA	Solid	6010C	730847
480-225023-2 MS	BH-11 (0-2`)	Total/NA	Solid	6010C	730847

Metals (Continued)

Analysis Batch: 731265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-2 MSD	BH-11 (0-2`)	Total/NA	Solid	6010C	730847

General Chemistry

Analysis Batch: 730886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	Moisture	
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	Moisture	
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	Moisture	

Prep Batch: 731281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	9012B	
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	9012B	
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	9012B	
MB 480-731281/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-731281/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-731281/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-731281/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 731288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	9012B	731281
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	9012B	731281
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	9012B	731281
MB 480-731281/1-A	Method Blank	Total/NA	Solid	9012B	731281
LCS 480-731281/3-A	Lab Control Sample	Total/NA	Solid	9012B	731281
LCS 480-731281/4-A	Lab Control Sample	Total/NA	Solid	9012B	731281
LCSSRM 480-731281/2-A	Lab Control Sample	Total/NA	Solid	9012B	731281

Prep Batch: 1006455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	3060A	
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	3060A	
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	3060A	
MB 460-1006455/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-1006455/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-1006455/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 1006466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225023-1	BH-1 (4-6`)	Total/NA	Solid	7196A	1006455
480-225023-2	BH-11 (0-2`)	Total/NA	Solid	7196A	1006455
480-225023-3	BH-12 (2-4`)	Total/NA	Solid	7196A	1006455
MB 460-1006455/1-A	Method Blank	Total/NA	Solid	7196A	1006455
LCSI 460-1006455/3-A	Lab Control Sample	Total/NA	Solid	7196A	1006455
LCSSRM 460-1006455/2-A	Lab Control Sample	Total/NA	Solid	7196A	1006455

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225023-1
Project/Site: The Nest Site Analysis

Client Sample ID: BH-1 (4-6`)
Lab Sample ID: 480-225023-1
Date Collected: 10/31/24 10:20
Matrix: Solid
Date Received: 10/31/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730886	AF	EET BUF	11/01/24 15:51

Client Sample ID: BH-1 (4-6`)
Lab Sample ID: 480-225023-1
Date Collected: 10/31/24 10:20
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730998	CDC	EET BUF	11/03/24 16:35
Total/NA	Analysis	8260C		1	731000	CDC	EET BUF	11/04/24 00:08
Total/NA	Prep	3550C			730963	DP	EET BUF	11/03/24 06:49
Total/NA	Analysis	8270D		1	731034	JMM	EET BUF	11/04/24 19:46
Total/NA	Prep	3550C			731139	SJM	EET BUF	11/04/24 17:30
Total/NA	Analysis	8081B		1	731153	JLS	EET BUF	11/05/24 11:13
Total/NA	Prep	3550C			730899	SJM	EET BUF	11/01/24 17:55
Total/NA	Analysis	8082A		1	730922	W1T	EET BUF	11/02/24 22:16
Total/NA	Prep	8151A			730964	DP	EET BUF	11/03/24 06:56
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 16:55
Total/NA	Prep	1633 Shake			633740	KML	EET CLE	11/05/24 08:10
Total/NA	Analysis	Draft-3 1633		1	634034	LD	EET CLE	11/05/24 19:04
Total/NA	Prep	3050B			730847	ET	EET BUF	11/01/24 15:14
Total/NA	Analysis	6010C		1	731161	BMB	EET BUF	11/04/24 14:40
Total/NA	Prep	3050B			730847	ET	EET BUF	11/01/24 15:14
Total/NA	Analysis	6010C		5	731265	BMB	EET BUF	11/05/24 13:49
Total/NA	Prep	7471B			731026	ESB	EET BUF	11/04/24 10:01
Total/NA	Analysis	7471B		1	731116	ESB	EET BUF	11/04/24 14:21
Total/NA	Prep	3060A			1006455	MNP	EET EDI	11/12/24 09:00 - 11/12/24 10:00 [1]
Total/NA	Analysis	7196A		1	1006466	MNP	EET EDI	11/12/24 12:50
Total/NA	Prep	9012B			731281	CG	EET BUF	11/05/24 14:00
Total/NA	Analysis	9012B		1	731288	AM	EET BUF	11/05/24 17:54

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Date Collected: 10/31/24 14:40
Matrix: Solid
Date Received: 10/31/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730886	AF	EET BUF	11/01/24 15:51

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Date Collected: 10/31/24 14:40
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730998	CDC	EET BUF	11/03/24 16:35
Total/NA	Analysis	8260C		1	731000	CDC	EET BUF	11/04/24 00:32

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Date Collected: 10/31/24 14:40
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			730963	DP	EET BUF	11/03/24 06:49
Total/NA	Analysis	8270D		5	731034	JMM	EET BUF	11/04/24 20:12
Total/NA	Prep	3550C			731139	SJM	EET BUF	11/04/24 17:30
Total/NA	Analysis	8081B		20	731153	JLS	EET BUF	11/05/24 11:32
Total/NA	Prep	3550C			730899	SJM	EET BUF	11/01/24 17:55
Total/NA	Analysis	8082A		1	730922	W1T	EET BUF	11/03/24 03:04
Total/NA	Prep	8151A			730964	DP	EET BUF	11/03/24 06:56
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 17:14
Total/NA	Prep	1633 Shake			633740	KML	EET CLE	11/05/24 08:10
Total/NA	Analysis	Draft-3 1633		1	634034	LD	EET CLE	11/05/24 19:20
Total/NA	Prep	3050B			730847	ET	EET BUF	11/01/24 15:14
Total/NA	Analysis	6010C		1	731161	BMB	EET BUF	11/04/24 14:41
Total/NA	Prep	3050B			730847	ET	EET BUF	11/01/24 15:14
Total/NA	Analysis	6010C		5	731265	BMB	EET BUF	11/05/24 13:51
Total/NA	Prep	7471B			731026	ESB	EET BUF	11/04/24 10:01
Total/NA	Analysis	7471B		1	731116	ESB	EET BUF	11/04/24 14:22
Total/NA	Prep	3060A			1006455	MNP	EET EDI	11/12/24 09:00 - 11/12/24 10:00 [1]
Total/NA	Analysis	7196A		1	1006466	MNP	EET EDI	11/12/24 12:50
Total/NA	Prep	9012B			731281	CG	EET BUF	11/05/24 14:00
Total/NA	Analysis	9012B		1	731288	AM	EET BUF	11/05/24 17:54

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Date Collected: 10/31/24 15:30
Matrix: Solid
Date Received: 10/31/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	730886	AF	EET BUF	11/01/24 15:51

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Date Collected: 10/31/24 15:30
Matrix: Solid
Date Received: 10/31/24 16:30
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			730998	CDC	EET BUF	11/03/24 16:35
Total/NA	Analysis	8260C		1	731000	CDC	EET BUF	11/04/24 00:55
Total/NA	Prep	3550C			730963	DP	EET BUF	11/03/24 06:49
Total/NA	Analysis	8270D		5	731034	JMM	EET BUF	11/04/24 20:36
Total/NA	Prep	3550C			731139	SJM	EET BUF	11/04/24 17:30
Total/NA	Analysis	8081B		5	731153	JLS	EET BUF	11/05/24 11:52
Total/NA	Prep	3550C			730899	SJM	EET BUF	11/01/24 17:55
Total/NA	Analysis	8082A		1	730922	W1T	EET BUF	11/03/24 03:22
Total/NA	Prep	8151A			730964	DP	EET BUF	11/03/24 06:56
Total/NA	Analysis	8151A		1	731215	JLS	EET BUF	11/05/24 17:32
Total/NA	Prep	1633 Shake			633740	KML	EET CLE	11/05/24 08:10
Total/NA	Analysis	Draft-3 1633		1	634034	LD	EET CLE	11/05/24 19:37

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225023-1
Project/Site: The Nest Site Analysis

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3

Date Collected: 10/31/24 15:30
Matrix: Solid

Date Received: 10/31/24 16:30
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			730847	ET	EET BUF	11/01/24 15:14
Total/NA	Analysis	6010C		1	731161	BMB	EET BUF	11/04/24 14:51
Total/NA	Prep	7471B			731026	ESB	EET BUF	11/04/24 10:01
Total/NA	Analysis	7471B		1	731116	ESB	EET BUF	11/04/24 14:26
Total/NA	Prep	3060A			1006455	MNP	EET EDI	11/12/24 09:00 - 11/12/24 10:00 [1]
Total/NA	Analysis	7196A		1	1006466	MNP	EET EDI	11/12/24 12:50
Total/NA	Prep	9012B			731281	CG	EET BUF	11/05/24 14:00
Total/NA	Analysis	9012B		1	731288	AM	EET BUF	11/05/24 17:55

[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
EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225023-1
Project/Site: The Nest Site Analysis

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
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
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
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	12-31-24

Laboratory: Eurofins Edison

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-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	04-01-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-31-24
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225023-1
Project/Site: The Nest Site Analysis

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
Draft-3 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
7196A	Chromium, Hexavalent	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET EDI
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
9012B	Cyanide, Total and/or Amenable, Distillation	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

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225023-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-225023-1	BH-1 (4-6`)	Solid	10/31/24 10:20	10/31/24 16:30
480-225023-2	BH-11 (0-2`)	Solid	10/31/24 14:40	10/31/24 16:30
480-225023-3	BH-12 (2-4`)	Solid	10/31/24 15:30	10/31/24 16:30

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: Jacob COX
Company: Bridges Engineering - BE3
Address: 960 Busti Ave Suite B-150
City: Buffalo
State, Zip: NY, 14213
Phone: 716.249.6880
Email:

Sampler: Joseph Gambino
Phone: 716.249.6880
Lab PM: Benicati, John
E-Mail: JCOX@BE3corp.com
Carrier Tracking No(s):
State of Origin:
Accreditations Required (See note):
Due Date Requested:
TAT Requested (days): Standard 10 Day TAT
PO #:
WO #:
SSOW#:
Site: The Nest

COC No:
Page:
Job #:

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Tnzma
Z - other (specify)
Other:

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-TCL VOCs+TICS	6010C, 7471B, 8081B	8082A, 8151A, 8270D	1633-final-1633 Standard list+40	7196A, 9012B	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH-1 (4-6')	10-31-24	10:20AM	G	S			X	X	Y	X	X		Added Hex Chrom + Cyanide
BH-11 (0-2')	10-31-24	2:40PM	G	S			X	X	X	X	X		
BH-12 (2-4')	10-31-24	3:30PM	G	S			X	X	X	X	X		

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 sar
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 ot
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 Eurof

480-225023 Chain of Custody

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)
Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipme...

	Date/Time	Company		Date/Time	Company
Relinquished by: Joseph Gambino	10/31/24 @ 4:30pm	BE3	Received by:	10/31/24 1630	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: 5.ETR#SCICE

Ver: 06/08/2021

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90184.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-225023-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/13/2024			
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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

R085-34

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:		X	X		X	
BH-1 (4-6`) (480-225023-1)	10/31/24	10:20 Eastern	G	Solid			X	1	
BH-11 (0-2`) (480-225023-2)	10/31/24	14:40 Eastern	G	Solid			X	1	
BH-12 (2-4`) (480-225023-3)	10/31/24	13:30 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
KMS	~~10~~ 11-1-24 1600		J Collins	11-2-24 930	EUR
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 Shipping Receiving Site Name

Cooler unpacked by: JC

Cooler Received on 11-2-24 Opened on 11-2-24

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 # 17 (CF 0.1 °C) Observed Cooler Temp. 2.5 °C Corrected Cooler Temp. 2.6 °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# HC447997
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

ALIWGT 47.70 LB
CAD: 0759273/CAFE3855
DIMS: 26x15x14 IN

BILL SENDER

Part # 159469494 MTW EXP 06/25

TO **SAMPLE RECEIPT**
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF. BARBERTON

FedEx Express

TRK# 0201 **7463 0660 5028**

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CAKA

44203
OH-US **CLE**

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90187.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP - New York		Job #: 480-225023-1
Address: 777 New Durham Road, ,	Due Date Requested: 11/13/2024			Preservation Codes: -
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis	Project #: 48028073			
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)	7196A/3060A Hexavalent Chromium - 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH-1 (4-6`) (480-225023-1)	10/31/24	10:20 Eastern	G	Solid			X	1	
BH-11 (0-2`) (480-225023-2)	10/31/24	14:40 Eastern	G	Solid			X	1	
BH-12 (2-4`) (480-225023-3)	10/31/24	13 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: Unconfirmed	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) 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	11-1-24 1600		Fed Ex	11/2/24 9:25	ETA
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: 0.8 / 1.0 IR9

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-225023-1

Login Number: 225023
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	5.8 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	BE3
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-225023-1

Login Number: 225023
List Number: 2
Creator: Rivera, Kenneth

List Source: Eurofins Edison
List Creation: 11/02/24 10:44 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	1°C, IR #9
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 11/15/2024 12:29:41 PM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-225073-1

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
11/15/2024 12:29:41 PM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
(716)504-9874

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
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.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

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.
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
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.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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"

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 480-225073-1 Eurofins Buffalo

Job Narrative
480-225073-1

Receipt
The samples were received on 11/1/2024 5:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.9º C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: BH-6 (2-4') (480-225073-1), BH-6 (7-8') NATIVE (480-225073-2), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4), BH-5 (2-6') (480-225073-5) and BH-9 (4-6') (480-225073-6). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-731454 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte is detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated samples are: BH-6 (2-4') (480-225073-1), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4), BH-5 (2-6') (480-225073-5) and BH-9 (4-6') (480-225073-6).

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-731419 and analytical batch 480-731454 recovered outside control limits for the following analytes: Acetone. The following associated samples are impacted: BH-6 (2-4') (480-225073-1), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4), BH-5 (2-6') (480-225073-5) and BH-9 (4-6') (480-225073-6)

Method 8260C: The method blank for preparation batch 480-731419 and analytical batch 480-731454 contained Methylene Chloride above the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated sample(s) were not re-analyzed because the concentration of the common lab contaminant in the method blank was less than 5 times the RL. The following samples are affected: BH-6 (2-4') (480-225073-1), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4), BH-5 (2-6') (480-225073-5) and BH-9 (4-6') (480-225073-6).

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 samples were diluted due to color, appearance, and viscosity: BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4) and BH-5 (2-6') (480-225073-5). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-731322 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH-6 (2-4') (480-225073-1), BH-6 (7-8') NATIVE (480-225073-2), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4), BH-5 (2-6') (480-225073-5) and BH-9 (4-6') (480-225073-6).

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

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample matrix: BH-6 (2-4') (480-225073-1), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4) and BH-5 (2-6') (480-225073-5). 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.

Metals
Method 6010C: The low level continuing calibration verification (CCVL) for analytical batch 480-731385 recovered above the upper control limit for (Lead). The sample associated with this CCVL contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (LCSSRM 480-731094/2-A) was not performed.

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

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

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

Job ID: 480-225073-1 (Continued) Eurofins Buffalo

Organic Prep
Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: BH-6 (2-4') (480-225073-1), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4) and BH-5 (2-6') (480-225073-5).

Method 8151A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparations BH-6 (7-8') NATIVE (480-225073-2).

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225073-1
Project/Site: The Nest Site Analysis

Client Sample ID: BH-6 (2-4')
Lab Sample ID: 480-225073-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.0	J *1 vs	29	4.9	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.78	J B vs	5.8	0.36	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	23	B vs	5.8	2.7	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.44	J vs	5.8	0.44	ug/Kg	1	☼	8260C	Total/NA
Acenaphthylene	29	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Anthracene	86	J	200	48	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	280		200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	280		200	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	300		200	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180	J	200	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	150	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Carbazole	31	J	200	23	ug/Kg	1	☼	8270D	Total/NA
Chrysene	270		200	44	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	50	J	200	34	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	550		200	21	ug/Kg	1	☼	8270D	Total/NA
Fluorene	26	J	200	23	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	140	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	400		200	29	ug/Kg	1	☼	8270D	Total/NA
Pyrene	530		200	23	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDT	4.4	J	9.6	2.3	ug/Kg	5	☼	8081B	Total/NA
Aluminum	10200		11.8	10.2	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.5		2.4	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	85.8		0.59	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.47		0.24	0.047	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.70		0.24	0.083	mg/Kg	1	☼	6010C	Total/NA
Calcium	39000		59.1	31.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.6		0.59	0.43	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.4		0.59	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	35.3		1.2	0.67	mg/Kg	1	☼	6010C	Total/NA
Iron	13300		11.8	10.0	mg/Kg	1	☼	6010C	Total/NA
Lead	484		1.2	0.54	mg/Kg	1	☼	6010C	Total/NA
Magnesium	24000		23.7	10.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	472		1.2	0.33	mg/Kg	1	☼	6010C	Total/NA
Nickel	14.9		5.9	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	2040		35.5	28.7	mg/Kg	1	☼	6010C	Total/NA
Silver	0.46	J	0.71	0.24	mg/Kg	1	☼	6010C	Total/NA
Sodium	155	J	166	72.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	20.6		0.59	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	365		2.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.50		0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH-6 (7-8') NATIVE
Lab Sample ID: 480-225073-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.23		0.19	0.047	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	16500		11.4	9.8	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.4		2.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	38.9		0.57	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.65		0.23	0.046	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.57		0.23	0.080	mg/Kg	1	☼	6010C	Total/NA
Calcium	15000		57.0	30.8	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: BH-6 (7-8') NATIVE (Continued)
Lab Sample ID: 480-225073-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	18.6		0.57	0.41	mg/Kg	1	☼	6010C	Total/NA
Cobalt	9.9		0.57	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	7.7		1.1	0.65	mg/Kg	1	☼	6010C	Total/NA
Iron	19200		11.4	9.7	mg/Kg	1	☼	6010C	Total/NA
Lead	14.8		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Magnesium	13500		22.8	9.7	mg/Kg	1	☼	6010C	Total/NA
Manganese	262		1.1	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	24.2		5.7	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	4380		34.2	27.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	189		160	69.9	mg/Kg	1	☼	6010C	Total/NA
Thallium	1.2	J	6.8	0.87	mg/Kg	1	☼	6010C	Total/NA
Vanadium	25.8		0.57	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	996		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.014	J	0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH-3 (2-4')
Lab Sample ID: 480-225073-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.1	J *1 vs	27	4.5	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.27	J vs	5.3	0.26	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.64	J B vs	5.3	0.33	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	19	B vs	5.3	2.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.1	J vs	5.3	0.40	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.89	J vs	11	0.89	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	480	J	1800	270	ug/Kg	10	☼	8270D	Total/NA
Acenaphthylene	320	J	1800	240	ug/Kg	10	☼	8270D	Total/NA
Anthracene	1700	J	1800	460	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	7300		1800	180	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	8300		1800	270	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	9800		1800	290	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4900		1800	200	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	3400		1800	240	ug/Kg	10	☼	8270D	Total/NA
Carbazole	770	J	1800	220	ug/Kg	10	☼	8270D	Total/NA
Chrysene	6400		1800	410	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	1900		1800	330	ug/Kg	10	☼	8270D	Total/NA
Dibenzofuran	370	J	1800	220	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	10000		1800	200	ug/Kg	10	☼	8270D	Total/NA
Fluorene	480	J	1800	220	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	4100		1800	230	ug/Kg	10	☼	8270D	Total/NA
Naphthalene	350	J	1800	240	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	6800		1800	270	ug/Kg	10	☼	8270D	Total/NA
Pyrene	8500		1800	220	ug/Kg	10	☼	8270D	Total/NA
4,4'-DDT	16	J	36	8.5	ug/Kg	20	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.096	J	0.18	0.046	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	5430		10.8	9.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.9		2.2	0.95	mg/Kg	1	☼	6010C	Total/NA
Barium	154		0.54	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.28		0.22	0.043	mg/Kg	1	☼	6010C	Total/NA
Cadmium	3.0		0.22	0.076	mg/Kg	1	☼	6010C	Total/NA
Calcium	147000		542	293	mg/Kg	10	☼	6010C	Total/NA
Chromium	9.7		0.54	0.39	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH-3 (2-4') (Continued)
Lab Sample ID: 480-225073-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	9.3		0.54	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	38.4		1.1	0.62	mg/Kg	1	☼	6010C	Total/NA
Iron	8390		10.8	9.2	mg/Kg	1	☼	6010C	Total/NA
Lead	291		1.1	0.50	mg/Kg	1	☼	6010C	Total/NA
Magnesium	69500		217	92.0	mg/Kg	10	☼	6010C	Total/NA
Manganese	449		1.1	0.30	mg/Kg	1	☼	6010C	Total/NA
Nickel	11.0		5.4	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	1360		32.5	26.3	mg/Kg	1	☼	6010C	Total/NA
Sodium	224		152	66.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	10.8		0.54	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	1020		2.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.68		0.021	0.0049	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH-8 (2-6')
Lab Sample ID: 480-225073-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.9	J *1 vs	27	4.5	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.70	J B vs	5.4	0.33	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	19	B vs	5.4	2.5	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.68	J vs	5.4	0.41	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.2	J vs	11	0.90	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	920	J	1800	180	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	950	J	1800	270	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	1100	J	1800	290	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	690	J	1800	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	520	J	1800	240	ug/Kg	10	☼	8270D	Total/NA
Butyl benzyl phthalate	460	J	1800	300	ug/Kg	10	☼	8270D	Total/NA
Chrysene	900	J	1800	410	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	2000		1800	190	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	540	J	1800	220	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	1000	J	1800	270	ug/Kg	10	☼	8270D	Total/NA
Pyrene	1700	J	1800	210	ug/Kg	10	☼	8270D	Total/NA
4,4'-DDT	20	J	36	8.3	ug/Kg	20	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.19		0.18	0.045	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	7740		10.4	8.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.4		2.1	0.91	mg/Kg	1	☼	6010C	Total/NA
Barium	415		0.52	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.35		0.21	0.041	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.44		0.21	0.073	mg/Kg	1	☼	6010C	Total/NA
Calcium	142000		518	280	mg/Kg	10	☼	6010C	Total/NA
Chromium	9.6		0.52	0.37	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.4		0.52	0.10	mg/Kg	1	☼	6010C	Total/NA
Copper	14.5		1.0	0.59	mg/Kg	1	☼	6010C	Total/NA
Iron	8740		10.4	8.8	mg/Kg	1	☼	6010C	Total/NA
Lead	188		1.0	0.48	mg/Kg	1	☼	6010C	Total/NA
Magnesium	71100		207	87.8	mg/Kg	10	☼	6010C	Total/NA
Manganese	428		1.0	0.29	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.2		5.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1790		31.1	25.1	mg/Kg	1	☼	6010C	Total/NA
Sodium	609		145	63.5	mg/Kg	1	☼	6010C	Total/NA
Thallium	1.0	J	6.2	0.79	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH-8 (2-6') (Continued)
Lab Sample ID: 480-225073-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	13.4		0.52	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	193		2.1	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.070		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH-5 (2-6')
Lab Sample ID: 480-225073-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.31	J vs	5.1	0.25	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.67	J vs B	5.1	0.32	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	1.5	J vs	5.1	0.36	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	13	vs B	5.1	2.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	3.5	J vs	5.1	0.39	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	16	vs	10	0.86	ug/Kg	1	☼	8260C	Total/NA
Aluminum	625		10.5	9.0	mg/Kg	1	☼	6010C	Total/NA
Barium	3.6		0.52	0.15	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.52		0.21	0.073	mg/Kg	1	☼	6010C	Total/NA
Calcium	195000		525	283	mg/Kg	10	☼	6010C	Total/NA
Chromium	1.8		0.52	0.38	mg/Kg	1	☼	6010C	Total/NA
Cobalt	0.33	J	0.52	0.10	mg/Kg	1	☼	6010C	Total/NA
Copper	1.3		1.0	0.60	mg/Kg	1	☼	6010C	Total/NA
Iron	1670		10.5	8.9	mg/Kg	1	☼	6010C	Total/NA
Lead	5.8		1.0	0.48	mg/Kg	1	☼	6010C	Total/NA
Magnesium	114000		210	89.0	mg/Kg	10	☼	6010C	Total/NA
Manganese	368		1.0	0.29	mg/Kg	1	☼	6010C	Total/NA
Nickel	0.92	J	5.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	230		31.5	25.4	mg/Kg	1	☼	6010C	Total/NA
Sodium	175		147	64.4	mg/Kg	1	☼	6010C	Total/NA
Thallium	1.3	J	6.3	0.80	mg/Kg	1	☼	6010C	Total/NA
Vanadium	1.4		0.52	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	87.5		2.1	1.1	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.020		0.020	0.0047	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH-9 (4-6')
Lab Sample ID: 480-225073-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.0	J vs *1	29	4.8	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.38	J vs	5.8	0.28	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.62	J vs B	5.8	0.36	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.70	J vs	5.8	0.40	ug/Kg	1	☼	8260C	Total/NA
Methyl acetate	3.9	J vs	29	3.5	ug/Kg	1	☼	8260C	Total/NA
Methylcyclohexane	1.5	J vs	5.8	0.87	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	17	vs B	5.8	2.6	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.1	J vs	5.8	0.43	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.9	J vs	12	0.97	ug/Kg	1	☼	8260C	Total/NA
4,4'-DDT	0.78	J	1.9	0.45	ug/Kg	1	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.25		0.19	0.048	ug/Kg	1	☼	Draft-3 1633	Total/NA
Aluminum	1880		11.5	9.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.4	J	2.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	12.2		0.58	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.10	J	0.23	0.046	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.4		0.23	0.081	mg/Kg	1	☼	6010C	Total/NA
Calcium	181000		577	311	mg/Kg	10	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH-9 (4-6') (Continued)
Lab Sample ID: 480-225073-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	3.5		0.58	0.42	mg/Kg	1	☼	6010C	Total/NA
Cobalt	0.69		0.58	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	3.7		1.2	0.66	mg/Kg	1	☼	6010C	Total/NA
Iron	3940		11.5	9.8	mg/Kg	1	☼	6010C	Total/NA
Lead	21.5		1.2	0.53	mg/Kg	1	☼	6010C	Total/NA
Magnesium	105000		231	97.8	mg/Kg	10	☼	6010C	Total/NA
Manganese	417		1.2	0.32	mg/Kg	1	☼	6010C	Total/NA
Nickel	2.1	J	5.8	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	688		34.6	28.0	mg/Kg	1	☼	6010C	Total/NA
Sodium	158	J	161	70.7	mg/Kg	1	☼	6010C	Total/NA
Thallium	1.3	J	6.9	0.88	mg/Kg	1	☼	6010C	Total/NA
Vanadium	4.0		0.58	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	282		2.3	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.16		0.023	0.0054	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH-6 (2-4')
Lab Sample ID: 480-225073-1
Date Collected: 11/01/24 10:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.8	U vs	5.8	0.42	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,1,2,2-Tetrachloroethane	5.8	U vs	5.8	0.95	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,1,2-Trichloroethane	5.8	U vs	5.8	0.76	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U vs	5.8	1.3	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,1-Dichloroethane	5.8	U vs	5.8	0.71	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,1-Dichloroethene	5.8	U vs	5.8	0.72	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,2,4-Trichlorobenzene	5.8	U vs	5.8	0.36	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,2-Dibromo-3-Chloropropane	5.8	U vs	5.8	2.9	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,2-Dichlorobenzene	5.8	U vs	5.8	0.46	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,2-Dichloroethane	5.8	U vs	5.8	0.29	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,2-Dichloropropane	5.8	U vs	5.8	2.9	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,3-Dichlorobenzene	5.8	U vs	5.8	0.30	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,4-Dichlorobenzene	5.8	U vs	5.8	0.82	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
2-Butanone (MEK)	29	U vs	29	2.1	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
2-Hexanone	29	U vs	29	2.9	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
4-Methyl-2-pentanone (MIBK)	29	U vs	29	1.9	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Acetone	**8.0**	**J *1 vs**	29	4.9	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Benzene	5.8	U vs	5.8	0.29	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Bromodichloromethane	5.8	U vs	5.8	0.78	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Bromoform	5.8	U vs	5.8	2.9	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Bromomethane	5.8	U vs	5.8	0.53	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Carbon disulfide	5.8	U vs	5.8	2.9	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Carbon tetrachloride	5.8	U vs	5.8	0.57	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Chlorobenzene	5.8	U vs	5.8	0.77	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Dibromochloromethane	5.8	U vs	5.8	0.75	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Chloroethane	5.8	U vs	5.8	1.3	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Chloroform	**0.78**	**J B vs**	5.8	0.36	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Chloromethane	5.8	U vs	5.8	0.35	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
cis-1,2-Dichloroethene	5.8	U vs	5.8	0.75	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
cis-1,3-Dichloropropene	5.8	U vs	5.8	0.84	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Cyclohexane	5.8	U vs	5.8	0.82	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Dichlorodifluoromethane	5.8	U vs	5.8	0.48	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Ethylbenzene	5.8	U vs	5.8	0.40	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
1,2-Dibromoethane	5.8	U vs	5.8	0.75	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Isopropylbenzene	5.8	U vs	5.8	0.88	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Methyl acetate	29	U vs	29	3.5	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Methyl tert-butyl ether	5.8	U vs	5.8	0.57	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Methylcyclohexane	5.8	U vs	5.8	0.89	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Methylene Chloride	**23**	**B vs**	5.8	2.7	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Styrene	5.8	U vs	5.8	0.29	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Tetrachloroethene	5.8	U vs	5.8	0.78	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Toluene	**0.44**	**J vs**	5.8	0.44	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
trans-1,2-Dichloroethene	5.8	U vs	5.8	0.60	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
trans-1,3-Dichloropropene	5.8	U vs	5.8	2.6	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Trichloroethene	5.8	U vs	5.8	1.3	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Trichlorofluoromethane	5.8	U vs	5.8	0.55	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Vinyl chloride	5.8	U vs	5.8	0.71	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1
Xylenes, Total	12	U vs	12	0.98	ug/Kg	☼	11/06/24 14:31	11/06/24 23:12	1

Client Sample ID: BH-6 (2-4')
Date Collected: 11/01/24 10:30
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-1
Matrix: Solid
Percent Solids: 85.4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	11/06/24 14:31	11/06/24 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		71 - 125	11/06/24 14:31	11/06/24 23:12	1
1,2-Dichloroethane-d4 (Surr)	89		64 - 126	11/06/24 14:31	11/06/24 23:12	1
4-Bromofluorobenzene (Surr)	85		72 - 126	11/06/24 14:31	11/06/24 23:12	1
Dibromofluoromethane (Surr)	93		60 - 140	11/06/24 14:31	11/06/24 23:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	110	U	110	63	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2,4,5-Trichlorophenol	200	U	200	53	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2,4,6-Trichlorophenol	200	U	200	39	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2,4-Dichlorophenol	200	U	200	21	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2,4-Dimethylphenol	200	U	200	47	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2,4-Dinitrophenol	1900	U	1900	900	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2,4-Dinitrotoluene	200	U	200	40	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2,6-Dinitrotoluene	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2-Chloronaphthalene	200	U	200	32	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2-Chlorophenol	380	U	380	36	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2-Methylnaphthalene	200	U	200	39	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2-Methylphenol	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2-Nitroaniline	380	U	380	29	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
2-Nitrophenol	200	U	200	55	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
3,3'-Dichlorobenzidine	380	U	380	230	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
3-Nitroaniline	380	U	380	54	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
4,6-Dinitro-2-methylphenol	380	U	380	200	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
4-Bromophenyl phenyl ether	200	U	200	28	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
4-Chloro-3-methylphenol	200	U	200	48	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
4-Chloroaniline	200	U	200	48	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
4-Chlorophenyl phenyl ether	200	U	200	24	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
4-Methylphenol	380	U	380	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
4-Nitroaniline	380	U	380	100	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
4-Nitrophenol	380	U	380	140	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Acenaphthene	200	U	200	29	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Acenaphthylene	**29**	**J**	200	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Acetophenone	200	U	200	26	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Anthracene	**86**	**J**	200	48	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Atrazine	200	U	200	68	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Benzaldehyde	200	U	200	160	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Benzo[a]anthracene	**280**		200	20	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Benzo[a]pyrene	**280**		200	29	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Benzo[b]fluoranthene	**300**		200	31	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Benzo[g,h,i]perylene	**180**	**J**	200	21	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Benzo[k]fluoranthene	**150**	**J**	200	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Biphenyl	200	U	200	29	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
bis (2-chloroisopropyl) ether	200	U	200	39	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Bis(2-chloroethoxy)methane	200	U	200	41	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Bis(2-chloroethyl)ether	200	U	200	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Bis(2-ethylhexyl) phthalate	200	U	200	67	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1

Client Sample ID: BH-6 (2-4')
Lab Sample ID: 480-225073-1
Date Collected: 11/01/24 10:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	200	U	200	32	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Caprolactam	200	U	200	59	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Carbazole	**31**	**J**	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Chrysene	**270**		200	44	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Dibenz(a,h)anthracene	**50**	**J**	200	34	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Dibenzofuran	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Diethyl phthalate	200	U	200	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Dimethyl phthalate	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Di-n-butyl phthalate	200	U	200	33	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Di-n-octyl phthalate	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Fluoranthene	**550**		200	21	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Fluorene	**26**	**J**	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Hexachlorobenzene	200	U	200	26	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Hexachlorobutadiene	200	U	200	29	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Hexachlorocyclopentadiene	200	U	200	26	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Hexachloroethane	200	U	200	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Indeno[1,2,3-cd]pyrene	**140**	**J**	200	24	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Isophorone	200	U	200	41	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Naphthalene	200	U	200	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Nitrobenzene	200	U	200	22	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
N-Nitrosodi-n-propylamine	200	U	200	33	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
N-Nitrosodiphenylamine	200	U	200	160	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Pentachlorophenol	380	U	380	200	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Phenanthrene	**400**		200	29	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Phenol	200	U	200	30	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1
Pyrene	**530**		200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*26 - 143*	*11/05/24 17:56*	*11/06/24 16:20*	*1*
2-Fluorobiphenyl (Surr)	*59*		*50 - 121*	*11/05/24 17:56*	*11/06/24 16:20*	*1*
2-Fluorophenol (Surr)	*59*		*36 - 120*	*11/05/24 17:56*	*11/06/24 16:20*	*1*
Nitrobenzene-d5 (Surr)	*56*		*40 - 121*	*11/05/24 17:56*	*11/06/24 16:20*	*1*
Phenol-d5 (Surr)	*62*		*41 - 120*	*11/05/24 17:56*	*11/06/24 16:20*	*1*
p-Terphenyl-d14 (Surr)	*73*		*46 - 143*	*11/05/24 17:56*	*11/06/24 16:20*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	9.6	U	9.6	1.9	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
4,4'-DDE	9.6	U	9.6	2.0	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
4,4'-DDT	**4.4**	**J**	9.6	2.3	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
Aldrin	9.6	U	9.6	2.4	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
alpha-BHC	9.6	U	9.6	1.7	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
beta-BHC	9.6	U	9.6	1.7	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
Chlordane (.alpha.)	9.6	U	9.6	4.8	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
delta-BHC	9.6	U	9.6	1.8	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
Dieldrin	9.6	U	9.6	2.3	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
Endosulfan I	9.6	U	9.6	1.8	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
Endosulfan II	9.6	U	9.6	1.7	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
Endosulfan sulfate	9.6	U	9.6	1.8	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
Endrin	9.6	U	9.6	1.9	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5

Client Sample ID: BH-6 (2-4')
Date Collected: 11/01/24 10:30
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-1
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	9.6	U	9.6	2.1	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5
Lindane	9.6	U	9.6	1.8	ug/Kg	☼	11/04/24 17:30	11/05/24 12:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*45 - 120*	*11/04/24 17:30*	*11/05/24 12:31*	*5*
DCB Decachlorobiphenyl	*100*		*45 - 120*	*11/04/24 17:30*	*11/05/24 12:31*	*5*
Tetrachloro-m-xylene	*63*		*30 - 124*	*11/04/24 17:30*	*11/05/24 12:31*	*5*
Tetrachloro-m-xylene	*65*		*30 - 124*	*11/04/24 17:30*	*11/05/24 12:31*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.22	U	0.22	0.042	mg/Kg	☼	11/04/24 17:38	11/07/24 00:16	1
PCB-1221	0.22	U	0.22	0.042	mg/Kg	☼	11/04/24 17:38	11/07/24 00:16	1
PCB-1232	0.22	U	0.22	0.042	mg/Kg	☼	11/04/24 17:38	11/07/24 00:16	1
PCB-1242	0.22	U	0.22	0.042	mg/Kg	☼	11/04/24 17:38	11/07/24 00:16	1
PCB-1248	0.22	U	0.22	0.042	mg/Kg	☼	11/04/24 17:38	11/07/24 00:16	1
PCB-1254	0.22	U	0.22	0.10	mg/Kg	☼	11/04/24 17:38	11/07/24 00:16	1
PCB-1260	0.22	U	0.22	0.10	mg/Kg	☼	11/04/24 17:38	11/07/24 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*137*		*60 - 154*	*11/04/24 17:38*	*11/07/24 00:16*	*1*
Tetrachloro-m-xylene	*112*		*60 - 154*	*11/04/24 17:38*	*11/07/24 00:16*	*1*
DCB Decachlorobiphenyl	*126*		*65 - 174*	*11/04/24 17:38*	*11/07/24 00:16*	*1*
DCB Decachlorobiphenyl	*95*		*65 - 174*	*11/04/24 17:38*	*11/07/24 00:16*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	19	U	19	7.0	ug/Kg	☼	11/07/24 09:45	11/12/24 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*11/07/24 09:45*	*11/12/24 14:15*	*1*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*11/07/24 09:45*	*11/12/24 14:15*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.78	U	0.78	0.20	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluoropentanoic acid (PFPeA)	0.39	U	0.39	0.098	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1

Client Sample ID: BH-6 (2-4')
Date Collected: 11/01/24 10:30
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-1
Matrix: Solid
Percent Solids: 85.4

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.78	U	0.78	0.20	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.78	U	0.78	0.20	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.78	U	0.78	0.20	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.0	U	2.0	0.49	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0	U	2.0	0.49	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.78	U	0.78	0.20	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.78	U	0.78	0.20	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.39	U	0.39	0.098	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.39	U	0.39	0.098	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.78	U	0.78	0.20	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.78	U	0.78	0.20	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.39	U	0.39	0.098	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.98	U	0.98	0.24	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.9	U	4.9	1.2	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.9	U	4.9	1.2	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.049	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.39	U	0.39	0.098	ug/Kg	☼	11/06/24 08:26	11/06/24 19:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*97.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:18*	*1*
13C5 PFPeA	*89.0*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:18*	*1*
13C5 PFHxA	*89.4*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:18*	*1*
13C4 PFHpA	*95.2*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:18*	*1*
13C8 PFOA	*100*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:18*	*1*
13C9 PFNA	*103*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:18*	*1*

Client Sample ID: BH-6 (2-4')
Lab Sample ID: 480-225073-1
Date Collected: 11/01/24 10:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 85.4

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	97.6		20 - 150	11/06/24 08:26	11/06/24 19:18	1
13C7 PFUnA	100		20 - 150	11/06/24 08:26	11/06/24 19:18	1
13C2 PFTeDA	88.1		20 - 150	11/06/24 08:26	11/06/24 19:18	1
13C3 PFBS	108		20 - 150	11/06/24 08:26	11/06/24 19:18	1
13C3 PFHxS	99.0		20 - 150	11/06/24 08:26	11/06/24 19:18	1
13C8 PFOS	94.8		20 - 150	11/06/24 08:26	11/06/24 19:18	1
13C8 PFOSA	92.8		20 - 150	11/06/24 08:26	11/06/24 19:18	1
d3-NMeFOSAA	91.6		20 - 150	11/06/24 08:26	11/06/24 19:18	1
d5-NEtFOSAA	126		20 - 150	11/06/24 08:26	11/06/24 19:18	1
M2-4:2 FTS	120		20 - 150	11/06/24 08:26	11/06/24 19:18	1
M2-6:2 FTS	118		20 - 150	11/06/24 08:26	11/06/24 19:18	1
M2-8:2 FTS	105		20 - 150	11/06/24 08:26	11/06/24 19:18	1
13C3 HFPO-DA	83.9		20 - 150	11/06/24 08:26	11/06/24 19:18	1
d7-N-MeFOSE-M	90.1		20 - 150	11/06/24 08:26	11/06/24 19:18	1
d9-N-EtFOSE-M	84.1		20 - 150	11/06/24 08:26	11/06/24 19:18	1
d5-NEtPFOSA	65.4		20 - 150	11/06/24 08:26	11/06/24 19:18	1
D3-NMeFOSA	69.9		20 - 150	11/06/24 08:26	11/06/24 19:18	1
13C2-PFDoDA	96.6		20 - 150	11/06/24 08:26	11/06/24 19:18	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10200**		11.8	10.2	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Antimony	17.7	U	17.7	0.63	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Arsenic	**5.5**		2.4	1.0	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Barium	**85.8**		0.59	0.17	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Beryllium	**0.47**		0.24	0.047	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Cadmium	**0.70**		0.24	0.083	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Calcium	**39000**		59.1	31.9	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Chromium	**14.6**		0.59	0.43	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Cobalt	**6.4**		0.59	0.12	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Copper	**35.3**		1.2	0.67	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Iron	**13300**		11.8	10.0	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Lead	**484**		1.2	0.54	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Magnesium	**24000**		23.7	10.0	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Manganese	**472**		1.2	0.33	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Nickel	**14.9**		5.9	0.30	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Potassium	**2040**		35.5	28.7	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Selenium	4.7	U	4.7	0.95	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Silver	**0.46**	**J**	0.71	0.24	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Sodium	**155**	**J**	166	72.5	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Thallium	7.1	U	7.1	0.90	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Vanadium	**20.6**		0.59	0.15	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1
Zinc	**365**		2.4	1.2	mg/Kg	☼	11/04/24 15:50	11/05/24 18:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.50**		0.024	0.0056	mg/Kg	☼	11/06/24 09:00	11/06/24 11:18	1

Client Sample ID: BH-6 (2-4')
Lab Sample ID: 480-225073-1
Date Collected: 11/01/24 10:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 85.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.3	U	2.3	0.97	mg/Kg	☼	11/13/24 09:45	11/13/24 12:00	1
Cyanide, Total (SW846 9012B)	1.1	U	1.1	0.53	mg/Kg	☼	11/09/24 13:40	11/09/24 18:09	1

Client Sample ID: BH-6 (7-8') NATIVE
Lab Sample ID: 480-225073-2
Date Collected: 11/01/24 10:45
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	110	U	110	62	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2,4,5-Trichlorophenol	190	U	190	52	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2,4,6-Trichlorophenol	190	U	190	38	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2,4-Dichlorophenol	190	U	190	20	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2,4-Dimethylphenol	190	U	190	46	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2,4-Dinitrophenol	1900	U	1900	880	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2,4-Dinitrotoluene	190	U	190	39	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2,6-Dinitrotoluene	190	U	190	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2-Chloronaphthalene	190	U	190	32	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2-Chlorophenol	370	U	370	35	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2-Methylnaphthalene	190	U	190	38	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2-Methylphenol	190	U	190	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2-Nitroaniline	370	U	370	28	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
2-Nitrophenol	190	U	190	54	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
3,3'-Dichlorobenzidine	370	U	370	230	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
3-Nitroaniline	370	U	370	53	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
4,6-Dinitro-2-methylphenol	370	U	370	190	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
4-Bromophenyl phenyl ether	190	U	190	27	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
4-Chloro-3-methylphenol	190	U	190	47	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
4-Chloroaniline	190	U	190	47	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
4-Chlorophenyl phenyl ether	190	U	190	24	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
4-Methylphenol	370	U	370	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
4-Nitroaniline	370	U	370	100	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
4-Nitrophenol	370	U	370	130	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Acenaphthene	190	U	190	28	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Acenaphthylene	190	U	190	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Acetophenone	190	U	190	26	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Anthracene	190	U	190	47	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Atrazine	190	U	190	66	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Benzaldehyde	190	U	190	150	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Benzo[a]anthracene	190	U	190	19	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Benzo[a]pyrene	190	U	190	28	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Benzo[b]fluoranthene	190	U	190	30	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Benzo[g,h,i]perylene	190	U	190	20	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Benzo[k]fluoranthene	190	U	190	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Biphenyl	190	U	190	28	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
bis (2-chloroisopropyl) ether	190	U	190	38	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Bis(2-chloroethoxy)methane	190	U	190	41	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Bis(2-chloroethyl)ether	190	U	190	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Bis(2-ethylhexyl) phthalate	190	U	190	65	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Butyl benzyl phthalate	190	U	190	32	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1

Client Sample ID: BH-6 (7-8') NATIVE
Lab Sample ID: 480-225073-2

Date Collected: 11/01/24 10:45
Matrix: Solid

Date Received: 11/01/24 17:45
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	190	U	190	57	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Carbazole	190	U	190	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Chrysene	190	U	190	43	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Dibenz(a,h)anthracene	190	U	190	34	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Dibenzofuran	190	U	190	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Diethyl phthalate	190	U	190	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Dimethyl phthalate	190	U	190	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Di-n-butyl phthalate	190	U	190	33	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Di-n-octyl phthalate	190	U	190	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Fluoranthene	190	U	190	20	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Fluorene	190	U	190	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Hexachlorobenzene	190	U	190	26	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Hexachlorobutadiene	190	U	190	28	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Hexachlorocyclopentadiene	190	U	190	26	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Hexachloroethane	190	U	190	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Indeno[1,2,3-cd]pyrene	190	U	190	24	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Isophorone	190	U	190	41	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Naphthalene	190	U	190	25	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Nitrobenzene	190	U	190	21	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
N-Nitrosodi-n-propylamine	190	U	190	33	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
N-Nitrosodiphenylamine	190	U	190	160	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Pentachlorophenol	370	U	370	190	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Phenanthrene	190	U	190	28	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Phenol	190	U	190	29	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1
Pyrene	190	U	190	23	ug/Kg	☼	11/05/24 17:56	11/06/24 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*26 - 143*	*11/05/24 17:56*	*11/06/24 16:45*	*1*
2-Fluorobiphenyl (Surr)	*80*		*50 - 121*	*11/05/24 17:56*	*11/06/24 16:45*	*1*
2-Fluorophenol (Surr)	*86*		*36 - 120*	*11/05/24 17:56*	*11/06/24 16:45*	*1*
Nitrobenzene-d5 (Surr)	*80*		*40 - 121*	*11/05/24 17:56*	*11/06/24 16:45*	*1*
Phenol-d5 (Surr)	*84*		*41 - 120*	*11/05/24 17:56*	*11/06/24 16:45*	*1*
p-Terphenyl-d14 (Surr)	*85*		*46 - 143*	*11/05/24 17:56*	*11/06/24 16:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.9	U	1.9	0.36	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
4,4'-DDE	1.9	U	1.9	0.39	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
4,4'-DDT	1.9	U	1.9	0.44	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
Aldrin	1.9	U	1.9	0.46	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
alpha-BHC	1.9	U	1.9	0.34	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
beta-BHC	1.9	U	1.9	0.34	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
Chlordane (.alpha.)	1.9	U	1.9	0.93	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
delta-BHC	1.9	U	1.9	0.35	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
Dieldrin	1.9	U	1.9	0.45	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
Endosulfan I	1.9	U	1.9	0.36	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
Endosulfan II	1.9	U	1.9	0.34	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
Endosulfan sulfate	1.9	U	1.9	0.35	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
Endrin	1.9	U	1.9	0.37	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1
Heptachlor	1.9	U	1.9	0.40	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1

Client Sample ID: BH-6 (7-8') NATIVE
Lab Sample ID: 480-225073-2
Date Collected: 11/01/24 10:45
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lindane	1.9	U	1.9	0.34	ug/Kg	☼	11/04/24 17:30	11/05/24 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*45 - 120*	*11/04/24 17:30*	*11/05/24 12:51*	*1*
DCB Decachlorobiphenyl	*86*		*45 - 120*	*11/04/24 17:30*	*11/05/24 12:51*	*1*
Tetrachloro-m-xylene	*67*		*30 - 124*	*11/04/24 17:30*	*11/05/24 12:51*	*1*
Tetrachloro-m-xylene	*78*		*30 - 124*	*11/04/24 17:30*	*11/05/24 12:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.24	U	0.24	0.046	mg/Kg	☼	11/04/24 17:38	11/07/24 00:34	1
PCB-1221	0.24	U	0.24	0.046	mg/Kg	☼	11/04/24 17:38	11/07/24 00:34	1
PCB-1232	0.24	U	0.24	0.046	mg/Kg	☼	11/04/24 17:38	11/07/24 00:34	1
PCB-1242	0.24	U	0.24	0.046	mg/Kg	☼	11/04/24 17:38	11/07/24 00:34	1
PCB-1248	0.24	U	0.24	0.046	mg/Kg	☼	11/04/24 17:38	11/07/24 00:34	1
PCB-1254	0.24	U	0.24	0.11	mg/Kg	☼	11/04/24 17:38	11/07/24 00:34	1
PCB-1260	0.24	U	0.24	0.11	mg/Kg	☼	11/04/24 17:38	11/07/24 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*133*		*60 - 154*	*11/04/24 17:38*	*11/07/24 00:34*	*1*
Tetrachloro-m-xylene	*109*		*60 - 154*	*11/04/24 17:38*	*11/07/24 00:34*	*1*
DCB Decachlorobiphenyl	*124*		*65 - 174*	*11/04/24 17:38*	*11/07/24 00:34*	*1*
DCB Decachlorobiphenyl	*91*		*65 - 174*	*11/04/24 17:38*	*11/07/24 00:34*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	37	U	37	13	ug/Kg	☼	11/07/24 09:45	11/12/24 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*	*11/07/24 09:45*	*11/12/24 14:33*	*1*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*	*11/07/24 09:45*	*11/12/24 14:33*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.75	U	0.75	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluoropentanoic acid (PFPeA)	0.37	U	0.37	0.094	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1

Client Sample ID: BH-6 (7-8') NATIVE
Lab Sample ID: 480-225073-2
Date Collected: 11/01/24 10:45
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 86.7

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.23**		0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.75	U	0.75	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.75	U	0.75	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.75	U	0.75	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.47	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.47	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.75	U	0.75	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.75	U	0.75	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U	0.37	0.094	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U	0.37	0.094	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.75	U	0.75	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.75	U	0.75	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U	0.37	0.094	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.94	U	0.94	0.23	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.7	U	4.7	1.2	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.7	U	4.7	1.2	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.047	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U	0.37	0.094	ug/Kg	☼	11/06/24 08:26	11/06/24 19:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*107*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C5 PFPeA	*101*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C5 PFHxA	*102*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C4 PFHpA	*107*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C8 PFOA	*112*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C9 PFNA	*120*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C6 PFDA	*110*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*

Client Sample ID: BH-6 (7-8') NATIVE
Lab Sample ID: 480-225073-2

Date Collected: 11/01/24 10:45
Matrix: Solid

Date Received: 11/01/24 17:45
Percent Solids: 86.7

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C7 PFUnA	*106*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C2 PFTeDA	*81.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C3 PFBS	*116*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C3 PFHxS	*107*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C8 PFOS	*107*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C8 PFOSA	*101*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
d3-NMeFOSAA	*105*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
d5-NEtFOSAA	*124*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
M2-4:2 FTS	*123*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
M2-6:2 FTS	*120*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
M2-8:2 FTS	*122*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C3 HFPO-DA	*94.8*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
d7-N-MeFOSE-M	*99.7*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
d9-N-EtFOSE-M	*91.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
d5-NEtPFOSA	*74.0*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
D3-NMeFOSA	*74.9*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*
13C2-PFDoDA	*98.4*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:34*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16500**		11.4	9.8	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Antimony	17.1	U	17.1	0.60	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Arsenic	**2.4**		2.3	1.0	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Barium	**38.9**		0.57	0.16	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Beryllium	**0.65**		0.23	0.046	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Cadmium	**0.57**		0.23	0.080	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Calcium	**15000**		57.0	30.8	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Chromium	**18.6**		0.57	0.41	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Cobalt	**9.9**		0.57	0.11	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Copper	**7.7**		1.1	0.65	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Iron	**19200**		11.4	9.7	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Lead	**14.8**		1.1	0.52	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Magnesium	**13500**		22.8	9.7	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Manganese	**262**		1.1	0.32	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Nickel	**24.2**		5.7	0.29	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Potassium	**4380**		34.2	27.6	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Selenium	4.6	U	4.6	0.91	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Silver	0.68	U	0.68	0.23	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Sodium	**189**		160	69.9	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Thallium	**1.2**	**J**	6.8	0.87	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Vanadium	**25.8**		0.57	0.15	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1
Zinc	**996**		2.3	1.2	mg/Kg	☼	11/04/24 15:50	11/05/24 18:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.023	0.0053	mg/Kg	☼	11/06/24 09:00	11/06/24 11:19	1

Client Sample ID: BH-3 (2-4')
Date Collected: 11/01/24 11:30
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-3
Matrix: Solid
Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U vs	5.3	0.39	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,1,2,2-Tetrachloroethane	5.3	U vs	5.3	0.86	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,1,2-Trichloroethane	5.3	U vs	5.3	0.69	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U vs	5.3	1.2	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,1-Dichloroethane	5.3	U vs	5.3	0.65	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,1-Dichloroethene	5.3	U vs	5.3	0.65	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,2,4-Trichlorobenzene	5.3	U vs	5.3	0.32	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,2-Dibromo-3-Chloropropane	5.3	U vs	5.3	2.7	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,2-Dichlorobenzene	5.3	U vs	5.3	0.42	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,2-Dichloroethane	5.3	U vs	5.3	0.27	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,2-Dichloropropane	5.3	U vs	5.3	2.7	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,4-Dichlorobenzene	5.3	U vs	5.3	0.75	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
2-Butanone (MEK)	27	U vs	27	1.9	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
2-Hexanone	27	U vs	27	2.7	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.7	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Acetone	**9.1**	**J *1 vs**	27	4.5	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Benzene	**0.27**	**J vs**	5.3	0.26	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Bromodichloromethane	5.3	U vs	5.3	0.71	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Bromoform	5.3	U vs	5.3	2.7	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Bromomethane	5.3	U vs	5.3	0.48	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Carbon disulfide	5.3	U vs	5.3	2.7	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Carbon tetrachloride	5.3	U vs	5.3	0.52	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Chlorobenzene	5.3	U vs	5.3	0.70	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Dibromochloromethane	5.3	U vs	5.3	0.68	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Chloroethane	5.3	U vs	5.3	1.2	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Chloroform	**0.64**	**J B vs**	5.3	0.33	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Chloromethane	5.3	U vs	5.3	0.32	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
cis-1,2-Dichloroethene	5.3	U vs	5.3	0.68	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
cis-1,3-Dichloropropene	5.3	U vs	5.3	0.77	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Cyclohexane	5.3	U vs	5.3	0.75	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Dichlorodifluoromethane	5.3	U vs	5.3	0.44	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Ethylbenzene	5.3	U vs	5.3	0.37	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
1,2-Dibromoethane	5.3	U vs	5.3	0.68	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Isopropylbenzene	5.3	U vs	5.3	0.80	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Methyl acetate	27	U vs	27	3.2	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Methyl tert-butyl ether	5.3	U vs	5.3	0.52	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Methylcyclohexane	5.3	U vs	5.3	0.81	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Methylene Chloride	**19**	**B vs**	5.3	2.4	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Styrene	5.3	U vs	5.3	0.27	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Tetrachloroethene	5.3	U vs	5.3	0.71	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Toluene	**1.1**	**J vs**	5.3	0.40	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
trans-1,2-Dichloroethene	5.3	U vs	5.3	0.55	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
trans-1,3-Dichloropropene	5.3	U vs	5.3	2.3	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Trichloroethene	5.3	U vs	5.3	1.2	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Trichlorofluoromethane	5.3	U vs	5.3	0.50	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Vinyl chloride	5.3	U vs	5.3	0.65	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1
Xylenes, Total	**0.89**	**J vs**	11	0.89	ug/Kg	☼	11/06/24 14:31	11/06/24 23:39	1

Client Sample ID: BH-3 (2-4')
Date Collected: 11/01/24 11:30
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-3
Matrix: Solid
Percent Solids: 90.8

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.89	J	ug/Kg	☼	8.48	179601-23-1	11/06/24 14:31	11/06/24 23:39	1
Tentatively Identified Compound	None		ug/Kg	☼		N/A	11/06/24 14:31	11/06/24 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 125	11/06/24 14:31	11/06/24 23:39	1
1,2-Dichloroethane-d4 (Surr)	90		64 - 126	11/06/24 14:31	11/06/24 23:39	1
4-Bromofluorobenzene (Surr)	81		72 - 126	11/06/24 14:31	11/06/24 23:39	1
Dibromofluoromethane (Surr)	93		60 - 140	11/06/24 14:31	11/06/24 23:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	600	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2,4,5-Trichlorophenol	1800	U	1800	500	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2,4,6-Trichlorophenol	1800	U	1800	370	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2,4-Dichlorophenol	1800	U	1800	200	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2,4-Dimethylphenol	1800	U	1800	450	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2,4-Dinitrophenol	18000	U	18000	8500	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2,4-Dinitrotoluene	1800	U	1800	380	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2,6-Dinitrotoluene	1800	U	1800	220	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2-Chloronaphthalene	1800	U	1800	300	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2-Chlorophenol	3600	U	3600	340	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2-Methylnaphthalene	1800	U	1800	370	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2-Methylphenol	1800	U	1800	220	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2-Nitroaniline	3600	U	3600	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
2-Nitrophenol	1800	U	1800	520	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
3,3'-Dichlorobenzidine	3600	U	3600	2200	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
3-Nitroaniline	3600	U	3600	510	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
4,6-Dinitro-2-methylphenol	3600	U	3600	1800	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
4-Bromophenyl phenyl ether	1800	U	1800	260	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
4-Chloro-3-methylphenol	1800	U	1800	460	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
4-Chloroaniline	1800	U	1800	460	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
4-Chlorophenyl phenyl ether	1800	U	1800	230	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
4-Methylphenol	3600	U	3600	220	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
4-Nitroaniline	3600	U	3600	970	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
4-Nitrophenol	3600	U	3600	1300	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Acenaphthene	**480**	**J**	1800	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Acenaphthylene	**320**	**J**	1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Acetophenone	1800	U	1800	250	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Anthracene	**1700**	**J**	1800	460	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Atrazine	1800	U	1800	640	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Benzaldehyde	1800	U	1800	1500	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Benzo[a]anthracene	**7300**		1800	180	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Benzo[a]pyrene	**8300**		1800	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Benzo[b]fluoranthene	**9800**		1800	290	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Benzo[g,h,i]perylene	**4900**		1800	200	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Benzo[k]fluoranthene	**3400**		1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Biphenyl	1800	U	1800	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
bis (2-chloroisopropyl) ether	1800	U	1800	370	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Bis(2-chloroethoxy)methane	1800	U	1800	390	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Bis(2-chloroethyl)ether	1800	U	1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10

Client Sample ID: BH-3 (2-4')
Lab Sample ID: 480-225073-3
Date Collected: 11/01/24 11:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	1800	U	1800	630	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Butyl benzyl phthalate	1800	U	1800	300	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Caprolactam	1800	U	1800	550	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Carbazole	**770**	**J**	1800	220	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Chrysene	**6400**		1800	410	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Dibenz(a,h)anthracene	**1900**		1800	330	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Dibenzofuran	**370**	**J**	1800	220	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Diethyl phthalate	1800	U	1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Dimethyl phthalate	1800	U	1800	220	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Di-n-butyl phthalate	1800	U	1800	320	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Di-n-octyl phthalate	1800	U	1800	220	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Fluoranthene	**10000**		1800	200	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Fluorene	**480**	**J**	1800	220	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Hexachlorobenzene	1800	U	1800	250	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Hexachlorobutadiene	1800	U	1800	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Hexachlorocyclopentadiene	1800	U	1800	250	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Hexachloroethane	1800	U	1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Indeno[1,2,3-cd]pyrene	**4100**		1800	230	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Isophorone	1800	U	1800	390	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Naphthalene	**350**	**J**	1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Nitrobenzene	1800	U	1800	210	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
N-Nitrosodi-n-propylamine	1800	U	1800	320	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
N-Nitrosodiphenylamine	1800	U	1800	1500	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Pentachlorophenol	3600	U	3600	1800	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Phenanthrene	**6800**		1800	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Phenol	1800	U	1800	280	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10
Pyrene	**8500**		1800	220	ug/Kg	☼	11/05/24 17:56	11/06/24 17:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*26 - 143*	*11/05/24 17:56*	*11/06/24 17:11*	*10*
2-Fluorobiphenyl (Surr)	*77*		*50 - 121*	*11/05/24 17:56*	*11/06/24 17:11*	*10*
2-Fluorophenol (Surr)	*60*		*36 - 120*	*11/05/24 17:56*	*11/06/24 17:11*	*10*
Nitrobenzene-d5 (Surr)	*73*		*40 - 121*	*11/05/24 17:56*	*11/06/24 17:11*	*10*
Phenol-d5 (Surr)	*61*		*41 - 120*	*11/05/24 17:56*	*11/06/24 17:11*	*10*
p-Terphenyl-d14 (Surr)	*82*		*46 - 143*	*11/05/24 17:56*	*11/06/24 17:11*	*10*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	36	U	36	7.1	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
4,4'-DDE	36	U	36	7.6	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
4,4'-DDT	**16**	**J**	36	8.5	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
Aldrin	36	U	36	9.0	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
alpha-BHC	36	U	36	6.6	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
beta-BHC	36	U	36	6.6	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
Chlordane (.alpha.)	36	U	36	18	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
delta-BHC	36	U	36	6.8	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
Dieldrin	36	U	36	8.7	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
Endosulfan I	36	U	36	7.0	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
Endosulfan II	36	U	36	6.6	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
Endosulfan sulfate	36	U	36	6.8	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20

Client Sample ID: BH-3 (2-4')
Date Collected: 11/01/24 11:30
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-3
Matrix: Solid
Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	36	U	36	7.2	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
Heptachlor	36	U	36	7.9	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20
Lindane	36	U	36	6.7	ug/Kg	☼	11/04/24 17:30	11/05/24 13:11	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*11/04/24 17:30*	*11/05/24 13:11*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*11/04/24 17:30*	*11/05/24 13:11*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*11/04/24 17:30*	*11/05/24 13:11*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*11/04/24 17:30*	*11/05/24 13:11*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.20	U	0.20	0.039	mg/Kg	☼	11/04/24 17:38	11/07/24 00:53	1
PCB-1221	0.20	U	0.20	0.039	mg/Kg	☼	11/04/24 17:38	11/07/24 00:53	1
PCB-1232	0.20	U	0.20	0.039	mg/Kg	☼	11/04/24 17:38	11/07/24 00:53	1
PCB-1242	0.20	U	0.20	0.039	mg/Kg	☼	11/04/24 17:38	11/07/24 00:53	1
PCB-1248	0.20	U	0.20	0.039	mg/Kg	☼	11/04/24 17:38	11/07/24 00:53	1
PCB-1254	0.20	U	0.20	0.094	mg/Kg	☼	11/04/24 17:38	11/07/24 00:53	1
PCB-1260	0.20	U	0.20	0.094	mg/Kg	☼	11/04/24 17:38	11/07/24 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*145*		*60 - 154*	*11/04/24 17:38*	*11/07/24 00:53*	*1*
Tetrachloro-m-xylene	*121*		*60 - 154*	*11/04/24 17:38*	*11/07/24 00:53*	*1*
DCB Decachlorobiphenyl	*141*		*65 - 174*	*11/04/24 17:38*	*11/07/24 00:53*	*1*
DCB Decachlorobiphenyl	*102*		*65 - 174*	*11/04/24 17:38*	*11/07/24 00:53*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	18	U	18	6.4	ug/Kg	☼	11/07/24 09:45	11/12/24 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*54*		*28 - 129*	*11/07/24 09:45*	*11/12/24 14:52*	*1*
2,4-Dichlorophenylacetic acid	*51*		*28 - 129*	*11/07/24 09:45*	*11/12/24 14:52*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.74	U	0.74	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluoropentanoic acid (PFPeA)	0.37	U	0.37	0.092	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1

Client Sample ID: BH-3 (2-4')
Lab Sample ID: 480-225073-3
Date Collected: 11/01/24 11:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 90.8

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorooctanesulfonic acid (PFOS)	**0.096**	**J**	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.74	U	0.74	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.74	U	0.74	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.74	U	0.74	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.46	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.46	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.74	U	0.74	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.74	U	0.74	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U	0.37	0.092	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U	0.37	0.092	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.74	U	0.74	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.74	U	0.74	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U	0.37	0.092	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.92	U	0.92	0.23	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.6	U	4.6	1.2	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.6	U	4.6	1.2	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.046	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U	0.37	0.092	ug/Kg	☼	11/06/24 08:26	11/06/24 19:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*83.3*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C5 PFPeA	*74.2*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C5 PFHxA	*75.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C4 PFHpA	*79.2*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C8 PFOA	*85.7*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*

Client Sample ID: BH-3 (2-4')
Date Collected: 11/01/24 11:30
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-3
Matrix: Solid
Percent Solids: 90.8

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C9 PFNA	*83.5*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C6 PFDA	*71.5*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C7 PFUnA	*78.4*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C2 PFTeDA	*74.7*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C3 PFBS	*92.6*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C3 PFHxS	*83.5*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C8 PFOS	*84.2*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C8 PFOSA	*98.7*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
d3-NMeFOSAA	*86.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
d5-NEtFOSAA	*107*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
M2-4:2 FTS	*104*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
M2-6:2 FTS	*112*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
M2-8:2 FTS	*107*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C3 HFPO-DA	*71.0*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
d7-N-MeFOSE-M	*78.5*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
d9-N-EtFOSE-M	*77.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
d5-NEtPFOSA	*88.4*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
D3-NMeFOSA	*75.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*1*
13C2-PFDoDA	*88.8*		*20 - 150*	*11/06/24 08:26*	*11/06/24 19:51*	*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	☼	11/04/24 15:50	11/05/24 18:32	1
Antimony	16.3	U	16.3	0.57	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Arsenic	**4.9**		2.2	0.95	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Barium	**154**		0.54	0.15	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Beryllium	**0.28**		0.22	0.043	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Cadmium	**3.0**		0.22	0.076	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Calcium	**147000**		542	293	mg/Kg	☼	11/04/24 15:50	11/06/24 11:41	10
Chromium	**9.7**		0.54	0.39	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Cobalt	**9.3**		0.54	0.11	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Copper	**38.4**		1.1	0.62	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Iron	**8390**		10.8	9.2	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Lead	**291**		1.1	0.50	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Magnesium	**69500**		217	92.0	mg/Kg	☼	11/04/24 15:50	11/06/24 11:41	10
Manganese	**449**		1.1	0.30	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Nickel	**11.0**		5.4	0.27	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Potassium	**1360**		32.5	26.3	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Selenium	4.3	U	4.3	0.87	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Silver	0.65	U	0.65	0.22	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Sodium	**224**		152	66.5	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Thallium	6.5	U	6.5	0.82	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Vanadium	**10.8**		0.54	0.14	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1
Zinc	**1020**		2.2	1.1	mg/Kg	☼	11/04/24 15:50	11/05/24 18:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.68**		0.021	0.0049	mg/Kg	☼	11/06/24 09:00	11/06/24 11:23	1

Client Sample ID: BH-3 (2-4')
Lab Sample ID: 480-225073-3
Date Collected: 11/01/24 11:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 90.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.92	mg/Kg	☼	11/13/24 09:45	11/13/24 12:30	1
Cyanide, Total (SW846 9012B)	0.98	U	0.98	0.47	mg/Kg	☼	11/09/24 13:40	11/09/24 18:09	1

Client Sample ID: BH-8 (2-6')
Lab Sample ID: 480-225073-4
Date Collected: 11/01/24 14:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.4	U vs	5.4	0.39	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,1,2,2-Tetrachloroethane	5.4	U vs	5.4	0.87	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,1,2-Trichloroethane	5.4	U vs	5.4	0.70	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	5.4	1.2	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,1-Dichloroethane	5.4	U vs	5.4	0.66	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,1-Dichloroethene	5.4	U vs	5.4	0.66	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,2,4-Trichlorobenzene	5.4	U vs	5.4	0.33	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,2-Dibromo-3-Chloropropane	5.4	U vs	5.4	2.7	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,2-Dichlorobenzene	5.4	U vs	5.4	0.42	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,2-Dichloroethane	5.4	U vs	5.4	0.27	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,2-Dichloropropane	5.4	U vs	5.4	2.7	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,3-Dichlorobenzene	5.4	U vs	5.4	0.28	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,4-Dichlorobenzene	5.4	U vs	5.4	0.75	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
2-Butanone (MEK)	27	U vs	27	2.0	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
2-Hexanone	27	U vs	27	2.7	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.8	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Acetone	**5.9**	**J *1 vs**	27	4.5	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Benzene	5.4	U vs	5.4	0.26	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Bromodichloromethane	5.4	U vs	5.4	0.72	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Bromoform	5.4	U vs	5.4	2.7	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Bromomethane	5.4	U vs	5.4	0.48	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Carbon disulfide	5.4	U vs	5.4	2.7	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Carbon tetrachloride	5.4	U vs	5.4	0.52	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Chlorobenzene	5.4	U vs	5.4	0.71	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Dibromochloromethane	5.4	U vs	5.4	0.69	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Chloroethane	5.4	U vs	5.4	1.2	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Chloroform	**0.70**	**J B vs**	5.4	0.33	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Chloromethane	5.4	U vs	5.4	0.32	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
cis-1,2-Dichloroethene	5.4	U vs	5.4	0.69	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
cis-1,3-Dichloropropene	5.4	U vs	5.4	0.77	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Cyclohexane	5.4	U vs	5.4	0.75	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Dichlorodifluoromethane	5.4	U vs	5.4	0.44	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Ethylbenzene	5.4	U vs	5.4	0.37	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
1,2-Dibromoethane	5.4	U vs	5.4	0.69	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Isopropylbenzene	5.4	U vs	5.4	0.81	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Methyl acetate	27	U vs	27	3.2	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Methyl tert-butyl ether	5.4	U vs	5.4	0.53	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Methylcyclohexane	5.4	U vs	5.4	0.82	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Methylene Chloride	**19**	**B vs**	5.4	2.5	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Styrene	5.4	U vs	5.4	0.27	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Tetrachloroethene	5.4	U vs	5.4	0.72	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1

Client Sample ID: BH-8 (2-6')
Lab Sample ID: 480-225073-4
Date Collected: 11/01/24 14:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**0.68**	**J vs**	5.4	0.41	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
trans-1,2-Dichloroethene	5.4	U vs	5.4	0.56	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
trans-1,3-Dichloropropene	5.4	U vs	5.4	2.4	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Trichloroethene	5.4	U vs	5.4	1.2	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Trichlorofluoromethane	5.4	U vs	5.4	0.51	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Vinyl chloride	5.4	U vs	5.4	0.66	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1
Xylenes, Total	**1.2**	**J vs**	11	0.90	ug/Kg	☼	11/06/24 14:31	11/07/24 00:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*1.2*	*J*	*ug/Kg*	☼	*8.48*	*179601-23-1*	*11/06/24 14:31*	*11/07/24 00:06*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*11/06/24 14:31*	*11/07/24 00:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*71 - 125*	*11/06/24 14:31*	*11/07/24 00:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*64 - 126*	*11/06/24 14:31*	*11/07/24 00:06*	*1*
4-Bromofluorobenzene (Surr)	*89*		*72 - 126*	*11/06/24 14:31*	*11/07/24 00:06*	*1*
Dibromofluoromethane (Surr)	*96*		*60 - 140*	*11/06/24 14:31*	*11/07/24 00:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	590	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2,4,5-Trichlorophenol	1800	U	1800	490	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2,4,6-Trichlorophenol	1800	U	1800	360	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2,4-Dichlorophenol	1800	U	1800	190	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2,4-Dimethylphenol	1800	U	1800	440	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2,4-Dinitrophenol	18000	U	18000	8400	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2,4-Dinitrotoluene	1800	U	1800	370	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2,6-Dinitrotoluene	1800	U	1800	210	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2-Chloronaphthalene	1800	U	1800	300	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2-Chlorophenol	3500	U	3500	330	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2-Methylnaphthalene	1800	U	1800	360	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2-Methylphenol	1800	U	1800	210	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2-Nitroaniline	3500	U	3500	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
2-Nitrophenol	1800	U	1800	510	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
3,3'-Dichlorobenzidine	3500	U	3500	2100	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
3-Nitroaniline	3500	U	3500	500	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
4,6-Dinitro-2-methylphenol	3500	U	3500	1800	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
4-Bromophenyl phenyl ether	1800	U	1800	260	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
4-Chloro-3-methylphenol	1800	U	1800	450	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
4-Chloroaniline	1800	U	1800	450	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
4-Chlorophenyl phenyl ether	1800	U	1800	220	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
4-Methylphenol	3500	U	3500	210	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
4-Nitroaniline	3500	U	3500	950	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
4-Nitrophenol	3500	U	3500	1300	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Acenaphthene	1800	U	1800	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Acenaphthylene	1800	U	1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Acetophenone	1800	U	1800	250	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Anthracene	1800	U	1800	450	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Atrazine	1800	U	1800	630	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Benzaldehyde	1800	U	1800	1400	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10

Client Sample ID: BH-8 (2-6')
Lab Sample ID: 480-225073-4
Date Collected: 11/01/24 14:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**920**	**J**	1800	180	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Benzo[a]pyrene	**950**	**J**	1800	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Benzo[b]fluoranthene	**1100**	**J**	1800	290	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Benzo[g,h,i]perylene	**690**	**J**	1800	190	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Benzo[k]fluoranthene	**520**	**J**	1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Biphenyl	1800	U	1800	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
bis (2-chloroisopropyl) ether	1800	U	1800	360	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Bis(2-chloroethoxy)methane	1800	U	1800	390	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Bis(2-chloroethyl)ether	1800	U	1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Bis(2-ethylhexyl) phthalate	1800	U	1800	620	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Butyl benzyl phthalate	**460**	**J**	1800	300	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Caprolactam	1800	U	1800	550	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Carbazole	1800	U	1800	210	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Chrysene	**900**	**J**	1800	410	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Dibenz(a,h)anthracene	1800	U	1800	320	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Dibenzofuran	1800	U	1800	210	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Diethyl phthalate	1800	U	1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Dimethyl phthalate	1800	U	1800	210	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Di-n-butyl phthalate	1800	U	1800	310	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Di-n-octyl phthalate	1800	U	1800	210	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Fluoranthene	**2000**		1800	190	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Fluorene	1800	U	1800	210	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Hexachlorobenzene	1800	U	1800	250	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Hexachlorobutadiene	1800	U	1800	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Hexachlorocyclopentadiene	1800	U	1800	250	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Hexachloroethane	1800	U	1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Indeno[1,2,3-cd]pyrene	**540**	**J**	1800	220	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Isophorone	1800	U	1800	390	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Naphthalene	1800	U	1800	240	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Nitrobenzene	1800	U	1800	200	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
N-Nitrosodi-n-propylamine	1800	U	1800	310	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
N-Nitrosodiphenylamine	1800	U	1800	1500	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Pentachlorophenol	3500	U	3500	1800	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Phenanthrene	**1000**	**J**	1800	270	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Phenol	1800	U	1800	280	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10
Pyrene	**1700**	**J**	1800	210	ug/Kg	☼	11/05/24 17:56	11/06/24 17:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*26 - 143*	*11/05/24 17:56*	*11/06/24 17:36*	*10*
2-Fluorobiphenyl (Surr)	*72*		*50 - 121*	*11/05/24 17:56*	*11/06/24 17:36*	*10*
2-Fluorophenol (Surr)	*58*		*36 - 120*	*11/05/24 17:56*	*11/06/24 17:36*	*10*
Nitrobenzene-d5 (Surr)	*69*		*40 - 121*	*11/05/24 17:56*	*11/06/24 17:36*	*10*
Phenol-d5 (Surr)	*61*		*41 - 120*	*11/05/24 17:56*	*11/06/24 17:36*	*10*
p-Terphenyl-d14 (Surr)	*78*		*46 - 143*	*11/05/24 17:56*	*11/06/24 17:36*	*10*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	36	U	36	6.9	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
4,4'-DDE	36	U	36	7.5	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
4,4'-DDT	**20**	**J**	36	8.3	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20

Client Sample ID: BH-8 (2-6')
Date Collected: 11/01/24 14:30
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-4
Matrix: Solid
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	36	U	36	8.7	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
alpha-BHC	36	U	36	6.4	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
beta-BHC	36	U	36	6.4	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
Chlordane (.alpha.)	36	U	36	18	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
delta-BHC	36	U	36	6.6	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
Dieldrin	36	U	36	8.5	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
Endosulfan I	36	U	36	6.8	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
Endosulfan II	36	U	36	6.4	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
Endosulfan sulfate	36	U	36	6.6	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
Endrin	36	U	36	7.0	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
Heptachlor	36	U	36	7.7	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20
Lindane	36	U	36	6.5	ug/Kg	☼	11/04/24 17:30	11/05/24 13:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*164*	*S1+*	*45 - 120*	*11/04/24 17:30*	*11/05/24 13:30*	*20*
DCB Decachlorobiphenyl	*315*	*S1+*	*45 - 120*	*11/04/24 17:30*	*11/05/24 13:30*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*11/04/24 17:30*	*11/05/24 13:30*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*11/04/24 17:30*	*11/05/24 13:30*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.21	U	0.21	0.042	mg/Kg	☼	11/04/24 17:38	11/07/24 01:11	1
PCB-1221	0.21	U	0.21	0.042	mg/Kg	☼	11/04/24 17:38	11/07/24 01:11	1
PCB-1232	0.21	U	0.21	0.042	mg/Kg	☼	11/04/24 17:38	11/07/24 01:11	1
PCB-1242	0.21	U	0.21	0.042	mg/Kg	☼	11/04/24 17:38	11/07/24 01:11	1
PCB-1248	0.21	U	0.21	0.042	mg/Kg	☼	11/04/24 17:38	11/07/24 01:11	1
PCB-1254	0.21	U	0.21	0.10	mg/Kg	☼	11/04/24 17:38	11/07/24 01:11	1
PCB-1260	0.21	U	0.21	0.10	mg/Kg	☼	11/04/24 17:38	11/07/24 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*131*		*60 - 154*	*11/04/24 17:38*	*11/07/24 01:11*	*1*
Tetrachloro-m-xylene	*106*		*60 - 154*	*11/04/24 17:38*	*11/07/24 01:11*	*1*
DCB Decachlorobiphenyl	*124*		*65 - 174*	*11/04/24 17:38*	*11/07/24 01:11*	*1*
DCB Decachlorobiphenyl	*89*		*65 - 174*	*11/04/24 17:38*	*11/07/24 01:11*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	18	U	18	6.4	ug/Kg	☼	11/07/24 09:45	11/12/24 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*56*		*28 - 129*	*11/07/24 09:45*	*11/12/24 15:10*	*1*
2,4-Dichlorophenylacetic acid	*52*		*28 - 129*	*11/07/24 09:45*	*11/12/24 15:10*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.73	U	0.73	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluoropentanoic acid (PFPeA)	0.36	U	0.36	0.091	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1

Client Sample ID: BH-8 (2-6')
Lab Sample ID: 480-225073-4
Date Collected: 11/01/24 14:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 92.4

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorooctanesulfonic acid (PFOS)	**0.19**		0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.73	U	0.73	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.73	U	0.73	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.73	U	0.73	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.45	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.45	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.73	U	0.73	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.73	U	0.73	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	0.36	0.091	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	0.36	0.091	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.73	U	0.73	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.73	U	0.73	0.18	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	0.36	0.091	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.91	U	0.91	0.23	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.5	U	4.5	1.1	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.5	U	4.5	1.1	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1

Client Sample ID: BH-8 (2-6')
Date Collected: 11/01/24 14:30
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-4
Matrix: Solid
Percent Solids: 92.4

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.045	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	0.36	0.091	ug/Kg	☼	11/06/24 08:26	11/06/24 20:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*104*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C5 PFPeA	*96.0*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C5 PFHxA	*98.2*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C4 PFHpA	*102*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C8 PFOA	*109*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C9 PFNA	*112*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C6 PFDA	*98.6*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C7 PFUnA	*104*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C2 PFTeDA	*113*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C3 PFBS	*110*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C3 PFHxS	*104*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C8 PFOS	*102*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C8 PFOSA	*102*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
d3-NMeFOSAA	*103*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
d5-NEtFOSAA	*117*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
M2-4:2 FTS	*130*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
M2-6:2 FTS	*125*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
M2-8:2 FTS	*117*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C3 HFPO-DA	*87.4*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
d7-N-MeFOSE-M	*94.6*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
d9-N-EtFOSE-M	*86.9*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
d5-NEtPFOSA	*82.8*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
D3-NMeFOSA	*81.6*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*
13C2-PFDoDA	*103*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:08*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7740**		10.4	8.9	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Antimony	15.5	U	15.5	0.55	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Arsenic	**3.4**		2.1	0.91	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Barium	**415**		0.52	0.15	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Beryllium	**0.35**		0.21	0.041	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Cadmium	**0.44**		0.21	0.073	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Calcium	**142000**		518	280	mg/Kg	☼	11/04/24 15:50	11/06/24 11:43	10
Chromium	**9.6**		0.52	0.37	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Cobalt	**3.4**		0.52	0.10	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Copper	**14.5**		1.0	0.59	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Iron	**8740**		10.4	8.8	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Lead	**188**		1.0	0.48	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Magnesium	**71100**		207	87.8	mg/Kg	☼	11/04/24 15:50	11/06/24 11:43	10
Manganese	**428**		1.0	0.29	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Nickel	**8.2**		5.2	0.26	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Potassium	**1790**		31.1	25.1	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Selenium	4.1	U	4.1	0.83	mg/Kg	☼	11/04/24 15:50	11/06/24 16:46	1
Silver	0.62	U	0.62	0.21	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Sodium	**609**		145	63.5	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1

Client Sample ID: BH-8 (2-6')
Lab Sample ID: 480-225073-4
Date Collected: 11/01/24 14:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**1.0**	**J**	6.2	0.79	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Vanadium	**13.4**		0.52	0.13	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1
Zinc	**193**		2.1	1.1	mg/Kg	☼	11/04/24 15:50	11/05/24 18:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.070**		0.022	0.0050	mg/Kg	☼	11/06/24 09:00	11/06/24 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.92	mg/Kg	☼	11/13/24 09:45	11/13/24 12:00	1
Cyanide, Total (SW846 9012B)	1.1	U	1.1	0.51	mg/Kg	☼	11/09/24 13:40	11/09/24 18:12	1

Client Sample ID: BH-5 (2-6')
Lab Sample ID: 480-225073-5
Date Collected: 11/01/24 16:00
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.1	U vs	5.1	0.37	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,1,2,2-Tetrachloroethane	5.1	U vs	5.1	0.83	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,1,2-Trichloroethane	5.1	U vs	5.1	0.67	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U vs	5.1	1.2	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,1-Dichloroethane	5.1	U vs	5.1	0.63	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,1-Dichloroethene	5.1	U vs	5.1	0.63	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,2,4-Trichlorobenzene	5.1	U vs	5.1	0.31	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,2-Dibromo-3-Chloropropane	5.1	U vs	5.1	2.6	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,2-Dichlorobenzene	5.1	U vs	5.1	0.40	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,2-Dichloroethane	5.1	U vs	5.1	0.26	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,2-Dichloropropane	5.1	U vs	5.1	2.6	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,3-Dichlorobenzene	5.1	U vs	5.1	0.26	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,4-Dichlorobenzene	5.1	U vs	5.1	0.72	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
2-Butanone (MEK)	26	U vs	26	1.9	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
2-Hexanone	26	U vs	26	2.6	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Acetone	26	U vs *1	26	4.3	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Benzene	**0.31**	**J vs**	5.1	0.25	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Bromodichloromethane	5.1	U vs	5.1	0.69	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Bromoform	5.1	U vs	5.1	2.6	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Bromomethane	5.1	U vs	5.1	0.46	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Carbon disulfide	5.1	U vs	5.1	2.6	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Carbon tetrachloride	5.1	U vs	5.1	0.50	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Chlorobenzene	5.1	U vs	5.1	0.68	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Dibromochloromethane	5.1	U vs	5.1	0.66	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Chloroethane	5.1	U vs	5.1	1.2	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Chloroform	**0.67**	**J vs B**	5.1	0.32	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Chloromethane	5.1	U vs	5.1	0.31	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
cis-1,2-Dichloroethene	5.1	U vs	5.1	0.66	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
cis-1,3-Dichloropropene	5.1	U vs	5.1	0.74	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Cyclohexane	5.1	U vs	5.1	0.72	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1

Client Sample ID: BH-5 (2-6')
Date Collected: 11/01/24 16:00
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-5
Matrix: Solid
Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.1	U vs	5.1	0.43	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Ethylbenzene	**1.5**	**J vs**	5.1	0.36	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
1,2-Dibromoethane	5.1	U vs	5.1	0.66	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Isopropylbenzene	5.1	U vs	5.1	0.78	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Methyl acetate	26	U vs	26	3.1	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Methyl tert-butyl ether	5.1	U vs	5.1	0.51	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Methylcyclohexane	5.1	U vs	5.1	0.78	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Methylene Chloride	**13**	**vs B**	5.1	2.4	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Styrene	5.1	U vs	5.1	0.26	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Tetrachloroethene	5.1	U vs	5.1	0.69	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Toluene	**3.5**	**J vs**	5.1	0.39	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
trans-1,2-Dichloroethene	5.1	U vs	5.1	0.53	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
trans-1,3-Dichloropropene	5.1	U vs	5.1	2.3	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Trichloroethene	5.1	U vs	5.1	1.1	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Trichlorofluoromethane	5.1	U vs	5.1	0.49	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Vinyl chloride	5.1	U vs	5.1	0.63	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1
Xylenes, Total	**16**	**vs**	10	0.86	ug/Kg	☼	11/06/24 14:31	11/07/24 00:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*12*		*ug/Kg*	☼	*8.48*	*179601-23-1*	*11/06/24 14:31*	*11/07/24 00:33*	*1*
o-Xylene	*3.9*	*J*	*ug/Kg*	☼	*8.90*	*95-47-6*	*11/06/24 14:31*	*11/07/24 00:33*	*1*
Benzene, 1-ethyl-2-methyl-	*6.8*	*T J N*	*ug/Kg*	☼	*9.82*	*611-14-3*	*11/06/24 14:31*	*11/07/24 00:33*	*1*
Benzene, 1,2,4-trimethyl-	*6.3*	*T J N*	*ug/Kg*	☼	*9.90*	*95-63-6*	*11/06/24 14:31*	*11/07/24 00:33*	*1*
Benzene, 1,3,5-trimethyl-	*22*	*T J N*	*ug/Kg*	☼	*10.28*	*108-67-8*	*11/06/24 14:31*	*11/07/24 00:33*	*1*
Benzene, 1,2,3-trimethyl-	*5.6*	*T J N*	*ug/Kg*	☼	*10.69*	*526-73-8*	*11/06/24 14:31*	*11/07/24 00:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*71 - 125*	*11/06/24 14:31*	*11/07/24 00:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*64 - 126*	*11/06/24 14:31*	*11/07/24 00:33*	*1*
4-Bromofluorobenzene (Surr)	*91*		*72 - 126*	*11/06/24 14:31*	*11/07/24 00:33*	*1*
Dibromofluoromethane (Surr)	*92*		*60 - 140*	*11/06/24 14:31*	*11/07/24 00:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	510	U	510	280	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2,4,5-Trichlorophenol	860	U	860	230	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2,4,6-Trichlorophenol	860	U	860	170	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2,4-Dichlorophenol	860	U	860	91	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2,4-Dimethylphenol	860	U	860	210	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2,4-Dinitrophenol	8400	U	8400	4000	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2,4-Dinitrotoluene	860	U	860	180	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2,6-Dinitrotoluene	860	U	860	100	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2-Chloronaphthalene	860	U	860	140	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2-Chlorophenol	1700	U	1700	160	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2-Methylnaphthalene	860	U	860	170	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2-Methylphenol	860	U	860	100	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2-Nitroaniline	1700	U	1700	130	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
2-Nitrophenol	860	U	860	240	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
3,3'-Dichlorobenzidine	1700	U	1700	1000	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
3-Nitroaniline	1700	U	1700	240	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5

Client Sample ID: BH-5 (2-6')
Lab Sample ID: 480-225073-5
Date Collected: 11/01/24 16:00
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	1700	U	1700	860	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
4-Bromophenyl phenyl ether	860	U	860	120	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
4-Chloro-3-methylphenol	860	U	860	210	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
4-Chloroaniline	860	U	860	210	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
4-Chlorophenyl phenyl ether	860	U	860	110	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
4-Methylphenol	1700	U	1700	100	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
4-Nitroaniline	1700	U	1700	450	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
4-Nitrophenol	1700	U	1700	600	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Acenaphthene	860	U	860	130	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Acenaphthylene	860	U	860	110	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Acetophenone	860	U	860	120	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Anthracene	860	U	860	210	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Atrazine	860	U	860	300	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Benzaldehyde	860	U	860	680	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Benzo[a]anthracene	860	U	860	86	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Benzo[a]pyrene	860	U	860	130	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Benzo[b]fluoranthene	860	U	860	140	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Benzo[g,h,i]perylene	860	U	860	91	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Benzo[k]fluoranthene	860	U	860	110	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Biphenyl	860	U	860	130	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
bis (2-chloroisopropyl) ether	860	U	860	170	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Bis(2-chloroethoxy)methane	860	U	860	180	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Bis(2-chloroethyl)ether	860	U	860	110	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Bis(2-ethylhexyl) phthalate	860	U	860	290	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Butyl benzyl phthalate	860	U	860	140	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Caprolactam	860	U	860	260	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Carbazole	860	U	860	100	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Chrysene	860	U	860	190	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Dibenz(a,h)anthracene	860	U	860	150	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Dibenzofuran	860	U	860	100	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Diethyl phthalate	860	U	860	110	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Dimethyl phthalate	860	U	860	100	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Di-n-butyl phthalate	860	U	860	150	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Di-n-octyl phthalate	860	U	860	100	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Fluoranthene	860	U	860	91	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Fluorene	860	U	860	100	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Hexachlorobenzene	860	U	860	120	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Hexachlorobutadiene	860	U	860	130	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Hexachlorocyclopentadiene	860	U	860	120	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Hexachloroethane	860	U	860	110	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Indeno[1,2,3-cd]pyrene	860	U	860	110	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Isophorone	860	U	860	180	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Naphthalene	860	U	860	110	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Nitrobenzene	860	U	860	96	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
N-Nitrosodi-n-propylamine	860	U	860	150	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
N-Nitrosodiphenylamine	860	U	860	700	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Pentachlorophenol	1700	U	1700	860	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Phenanthrene	860	U	860	130	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5
Phenol	860	U	860	130	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5

Client Sample ID: BH-5 (2-6')
Lab Sample ID: 480-225073-5
Date Collected: 11/01/24 16:00
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	860	U	860	100	ug/Kg	☼	11/05/24 17:56	11/06/24 18:01	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*26 - 143*	*11/05/24 17:56*	*11/06/24 18:01*	*5*
2-Fluorobiphenyl (Surr)	*74*		*50 - 121*	*11/05/24 17:56*	*11/06/24 18:01*	*5*
2-Fluorophenol (Surr)	*64*		*36 - 120*	*11/05/24 17:56*	*11/06/24 18:01*	*5*
Nitrobenzene-d5 (Surr)	*68*		*40 - 121*	*11/05/24 17:56*	*11/06/24 18:01*	*5*
Phenol-d5 (Surr)	*69*		*41 - 120*	*11/05/24 17:56*	*11/06/24 18:01*	*5*
p-Terphenyl-d14 (Surr)	*83*		*46 - 143*	*11/05/24 17:56*	*11/06/24 18:01*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	17	U	17	3.3	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
4,4'-DDE	17	U	17	3.6	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
4,4'-DDT	17	U	17	4.0	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
Aldrin	17	U	17	4.2	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
alpha-BHC	17	U	17	3.1	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
beta-BHC	17	U	17	3.1	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
Chlordane (.alpha.)	17	U	17	8.5	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
delta-BHC	17	U	17	3.2	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
Dieldrin	17	U	17	4.1	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
Endosulfan I	17	U	17	3.3	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
Endosulfan II	17	U	17	3.1	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
Endosulfan sulfate	17	U	17	3.2	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
Endrin	17	U	17	3.4	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
Heptachlor	17	U	17	3.7	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10
Lindane	17	U	17	3.1	ug/Kg	☼	11/04/24 17:30	11/05/24 13:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*11/04/24 17:30*	*11/05/24 13:50*	*10*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*11/04/24 17:30*	*11/05/24 13:50*	*10*
Tetrachloro-m-xylene	*85*		*30 - 124*	*11/04/24 17:30*	*11/05/24 13:50*	*10*
Tetrachloro-m-xylene	*77*		*30 - 124*	*11/04/24 17:30*	*11/05/24 13:50*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.21	U	0.21	0.041	mg/Kg	☼	11/04/24 17:38	11/07/24 01:29	1
PCB-1221	0.21	U	0.21	0.041	mg/Kg	☼	11/04/24 17:38	11/07/24 01:29	1
PCB-1232	0.21	U	0.21	0.041	mg/Kg	☼	11/04/24 17:38	11/07/24 01:29	1
PCB-1242	0.21	U	0.21	0.041	mg/Kg	☼	11/04/24 17:38	11/07/24 01:29	1
PCB-1248	0.21	U	0.21	0.041	mg/Kg	☼	11/04/24 17:38	11/07/24 01:29	1
PCB-1254	0.21	U	0.21	0.097	mg/Kg	☼	11/04/24 17:38	11/07/24 01:29	1
PCB-1260	0.21	U	0.21	0.097	mg/Kg	☼	11/04/24 17:38	11/07/24 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*142*		*60 - 154*	*11/04/24 17:38*	*11/07/24 01:29*	*1*
Tetrachloro-m-xylene	*115*		*60 - 154*	*11/04/24 17:38*	*11/07/24 01:29*	*1*
DCB Decachlorobiphenyl	*135*		*65 - 174*	*11/04/24 17:38*	*11/07/24 01:29*	*1*
DCB Decachlorobiphenyl	*97*		*65 - 174*	*11/04/24 17:38*	*11/07/24 01:29*	*1*

Client Sample ID: BH-5 (2-6')
Lab Sample ID: 480-225073-5
Date Collected: 11/01/24 16:00
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 96.0

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.1	ug/Kg	☼	11/07/24 09:45	11/12/24 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*	*11/07/24 09:45*	*11/12/24 15:29*	*1*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*11/07/24 09:45*	*11/12/24 15:29*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.69	U	0.69	0.17	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.087	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorooctanoic acid (PFOA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorooctanesulfonic acid (PFOS)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.69	U	0.69	0.17	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.43	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.43	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.69	U	0.69	0.17	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.69	U	0.69	0.17	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.087	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1

Client Sample ID: BH-5 (2-6')
Date Collected: 11/01/24 16:00
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-5
Matrix: Solid
Percent Solids: 96.0

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.087	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.69	U	0.69	0.17	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.69	U	0.69	0.17	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.087	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.87	U	0.87	0.22	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.3	U	4.3	1.1	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.3	U	4.3	1.1	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.043	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.087	ug/Kg	☼	11/06/24 08:26	11/06/24 20:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*110*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C5 PFPeA	*101*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C5 PFHxA	*100*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C4 PFHpA	*107*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C8 PFOA	*108*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C9 PFNA	*115*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C6 PFDA	*108*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C7 PFUnA	*112*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C2 PFTeDA	*93.7*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C3 PFBS	*117*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C3 PFHxS	*109*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C8 PFOS	*104*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C8 PFOSA	*101*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
d3-NMeFOSAA	*98.8*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
d5-NEtFOSAA	*134*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
M2-4:2 FTS	*136*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
M2-6:2 FTS	*130*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
M2-8:2 FTS	*128*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C3 HFPO-DA	*94.4*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
d7-N-MeFOSE-M	*104*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
d9-N-EtFOSE-M	*96.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
d5-NEtPFOSA	*82.2*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
D3-NMeFOSA	*81.5*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*
13C2-PFDoDA	*104*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:24*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**625**		10.5	9.0	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Antimony	15.7	U	15.7	0.56	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Arsenic	2.1	U	2.1	0.92	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Barium	**3.6**		0.52	0.15	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Beryllium	0.21	U	0.21	0.042	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Cadmium	**0.52**		0.21	0.073	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1

Client Sample ID: BH-5 (2-6')
Lab Sample ID: 480-225073-5
Date Collected: 11/01/24 16:00
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**195000**		525	283	mg/Kg	☼	11/04/24 15:50	11/06/24 11:45	10
Chromium	**1.8**		0.52	0.38	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Cobalt	**0.33**	**J**	0.52	0.10	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Copper	**1.3**		1.0	0.60	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Iron	**1670**		10.5	8.9	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Lead	**5.8**		1.0	0.48	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Magnesium	**114000**		210	89.0	mg/Kg	☼	11/04/24 15:50	11/06/24 11:45	10
Manganese	**368**		1.0	0.29	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Nickel	**0.92**	**J**	5.2	0.26	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Potassium	**230**		31.5	25.4	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Selenium	4.2	U	4.2	0.84	mg/Kg	☼	11/04/24 15:50	11/06/24 16:48	1
Silver	0.63	U	0.63	0.21	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Sodium	**175**		147	64.4	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Thallium	**1.3**	**J**	6.3	0.80	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Vanadium	**1.4**		0.52	0.14	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1
Zinc	**87.5**		2.1	1.1	mg/Kg	☼	11/04/24 15:50	11/05/24 18:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.020	0.0047	mg/Kg	☼	11/06/24 09:00	11/06/24 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.0	U	2.0	0.86	mg/Kg	☼	11/13/24 09:45	11/13/24 12:30	1
Cyanide, Total (SW846 9012B)	0.97	U	0.97	0.47	mg/Kg	☼	11/09/24 13:40	11/09/24 18:13	1

Client Sample ID: BH-9 (4-6')
Lab Sample ID: 480-225073-6
Date Collected: 11/01/24 16:45
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.8	U vs	5.8	0.42	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,1,2,2-Tetrachloroethane	5.8	U vs	5.8	0.93	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,1,2-Trichloroethane	5.8	U vs	5.8	0.75	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U vs	5.8	1.3	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,1-Dichloroethane	5.8	U vs	5.8	0.70	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,1-Dichloroethene	5.8	U vs	5.8	0.70	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,2,4-Trichlorobenzene	5.8	U vs	5.8	0.35	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,2-Dibromo-3-Chloropropane	5.8	U vs	5.8	2.9	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,2-Dichlorobenzene	5.8	U vs	5.8	0.45	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,2-Dichloroethane	5.8	U vs	5.8	0.29	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,2-Dichloropropane	5.8	U vs	5.8	2.9	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,3-Dichlorobenzene	5.8	U vs	5.8	0.30	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,4-Dichlorobenzene	5.8	U vs	5.8	0.81	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
2-Butanone (MEK)	29	U vs	29	2.1	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
2-Hexanone	29	U vs	29	2.9	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
4-Methyl-2-pentanone (MIBK)	29	U vs	29	1.9	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Acetone	**7.0**	**J vs *1**	29	4.8	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Benzene	**0.38**	**J vs**	5.8	0.28	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1

Client Sample ID: BH-9 (4-6')
Lab Sample ID: 480-225073-6
Date Collected: 11/01/24 16:45
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	5.8	U vs	5.8	0.77	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Bromoform	5.8	U vs	5.8	2.9	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Bromomethane	5.8	U vs	5.8	0.52	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Carbon disulfide	5.8	U vs	5.8	2.9	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Carbon tetrachloride	5.8	U vs	5.8	0.56	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Chlorobenzene	5.8	U vs	5.8	0.76	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Dibromochloromethane	5.8	U vs	5.8	0.74	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Chloroethane	5.8	U vs	5.8	1.3	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Chloroform	**0.62**	**J vs B**	5.8	0.36	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Chloromethane	5.8	U vs	5.8	0.35	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
cis-1,2-Dichloroethene	5.8	U vs	5.8	0.74	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
cis-1,3-Dichloropropene	5.8	U vs	5.8	0.83	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Cyclohexane	5.8	U vs	5.8	0.81	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Dichlorodifluoromethane	5.8	U vs	5.8	0.48	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Ethylbenzene	**0.70**	**J vs**	5.8	0.40	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
1,2-Dibromoethane	5.8	U vs	5.8	0.74	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Isopropylbenzene	5.8	U vs	5.8	0.87	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Methyl acetate	**3.9**	**J vs**	29	3.5	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Methyl tert-butyl ether	5.8	U vs	5.8	0.56	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Methylcyclohexane	**1.5**	**J vs**	5.8	0.87	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Methylene Chloride	**17**	**vs B**	5.8	2.6	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Styrene	5.8	U vs	5.8	0.29	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Tetrachloroethene	5.8	U vs	5.8	0.77	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Toluene	**2.1**	**J vs**	5.8	0.43	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
trans-1,2-Dichloroethene	5.8	U vs	5.8	0.59	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
trans-1,3-Dichloropropene	5.8	U vs	5.8	2.5	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Trichloroethene	5.8	U vs	5.8	1.3	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Trichlorofluoromethane	5.8	U vs	5.8	0.54	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Vinyl chloride	5.8	U vs	5.8	0.70	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1
Xylenes, Total	**3.9**	**J vs**	12	0.97	ug/Kg	☼	11/06/24 14:31	11/06/24 22:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*2.7*	*J*	*ug/Kg*	☼	*8.48*	*179601-23-1*	*11/06/24 14:31*	*11/06/24 22:45*	*1*
o-Xylene	*1.2*	*J*	*ug/Kg*	☼	*8.90*	*95-47-6*	*11/06/24 14:31*	*11/06/24 22:45*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*11/06/24 14:31*	*11/06/24 22:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*71 - 125*	*11/06/24 14:31*	*11/06/24 22:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*64 - 126*	*11/06/24 14:31*	*11/06/24 22:45*	*1*
4-Bromofluorobenzene (Surr)	*87*		*72 - 126*	*11/06/24 14:31*	*11/06/24 22:45*	*1*
Dibromofluoromethane (Surr)	*92*		*60 - 140*	*11/06/24 14:31*	*11/06/24 22:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	120	U	120	64	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2,4,5-Trichlorophenol	200	U	200	53	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2,4,6-Trichlorophenol	200	U	200	39	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2,4-Dichlorophenol	200	U	200	21	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2,4-Dimethylphenol	200	U	200	48	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2,4-Dinitrophenol	1900	U	1900	910	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225073-1
Project/Site: The Nest Site Analysis

Client Sample ID: BH-9 (4-6')
Lab Sample ID: 480-225073-6
Date Collected: 11/01/24 16:45
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	200	U	200	41	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2,6-Dinitrotoluene	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2-Chloronaphthalene	200	U	200	32	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2-Chlorophenol	380	U	380	36	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2-Methylnaphthalene	200	U	200	39	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2-Methylphenol	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2-Nitroaniline	380	U	380	29	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
2-Nitrophenol	200	U	200	56	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
3,3'-Dichlorobenzidine	380	U	380	230	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
3-Nitroaniline	380	U	380	54	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
4,6-Dinitro-2-methylphenol	380	U	380	200	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
4-Bromophenyl phenyl ether	200	U	200	28	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
4-Chloro-3-methylphenol	200	U	200	49	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
4-Chloroaniline	200	U	200	49	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
4-Chlorophenyl phenyl ether	200	U	200	24	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
4-Methylphenol	380	U	380	23	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
4-Nitroaniline	380	U	380	100	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
4-Nitrophenol	380	U	380	140	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Acenaphthene	200	U	200	29	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Acenaphthylene	200	U	200	26	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Acetophenone	200	U	200	27	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Anthracene	200	U	200	49	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Atrazine	200	U	200	68	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Benzaldehyde	200	U	200	160	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Benzo[a]anthracene	200	U	200	20	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Benzo[a]pyrene	200	U	200	29	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Benzo[b]fluoranthene	200	U	200	31	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Benzo[g,h,i]perylene	200	U	200	21	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Benzo[k]fluoranthene	200	U	200	26	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Biphenyl	200	U	200	29	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
bis (2-chloroisopropyl) ether	200	U	200	39	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Bis(2-chloroethoxy)methane	200	U	200	42	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Bis(2-chloroethyl)ether	200	U	200	26	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Bis(2-ethylhexyl) phthalate	200	U	200	67	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Butyl benzyl phthalate	200	U	200	32	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Caprolactam	200	U	200	59	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Carbazole	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Chrysene	200	U	200	44	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Dibenz(a,h)anthracene	200	U	200	35	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Dibenzofuran	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Diethyl phthalate	200	U	200	26	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Dimethyl phthalate	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Di-n-butyl phthalate	200	U	200	34	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Di-n-octyl phthalate	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Fluoranthene	200	U	200	21	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Fluorene	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Hexachlorobenzene	200	U	200	27	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Hexachlorobutadiene	200	U	200	29	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Hexachlorocyclopentadiene	200	U	200	27	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1

Client Sample ID: BH-9 (4-6')
Date Collected: 11/01/24 16:45
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-6
Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	200	U	200	26	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Indeno[1,2,3-cd]pyrene	200	U	200	24	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Isophorone	200	U	200	42	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Naphthalene	200	U	200	26	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Nitrobenzene	200	U	200	22	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
N-Nitrosodi-n-propylamine	200	U	200	34	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
N-Nitrosodiphenylamine	200	U	200	160	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Pentachlorophenol	380	U	380	200	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Phenanthrene	200	U	200	29	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Phenol	200	U	200	30	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1
Pyrene	200	U	200	23	ug/Kg	☼	11/05/24 17:56	11/06/24 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*26 - 143*	*11/05/24 17:56*	*11/06/24 18:25*	*1*
2-Fluorobiphenyl (Surr)	*60*		*50 - 121*	*11/05/24 17:56*	*11/06/24 18:25*	*1*
2-Fluorophenol (Surr)	*62*		*36 - 120*	*11/05/24 17:56*	*11/06/24 18:25*	*1*
Nitrobenzene-d5 (Surr)	*60*		*40 - 121*	*11/05/24 17:56*	*11/06/24 18:25*	*1*
Phenol-d5 (Surr)	*62*		*41 - 120*	*11/05/24 17:56*	*11/06/24 18:25*	*1*
p-Terphenyl-d14 (Surr)	*78*		*46 - 143*	*11/05/24 17:56*	*11/06/24 18:25*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.9	U	1.9	0.37	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
4,4'-DDE	1.9	U	1.9	0.40	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
4,4'-DDT	**0.78**	**J**	1.9	0.45	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
Aldrin	1.9	U	1.9	0.47	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
alpha-BHC	1.9	U	1.9	0.35	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
beta-BHC	1.9	U	1.9	0.35	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
Chlordane (.alpha.)	1.9	U	1.9	0.96	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
delta-BHC	1.9	U	1.9	0.36	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
Dieldrin	1.9	U	1.9	0.46	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
Endosulfan I	1.9	U	1.9	0.37	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
Endosulfan II	1.9	U	1.9	0.35	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
Endosulfan sulfate	1.9	U	1.9	0.36	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
Endrin	1.9	U	1.9	0.38	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
Heptachlor	1.9	U	1.9	0.42	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1
Lindane	1.9	U	1.9	0.35	ug/Kg	☼	11/04/24 17:30	11/05/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*45 - 120*	*11/04/24 17:30*	*11/05/24 14:10*	*1*
DCB Decachlorobiphenyl	*80*		*45 - 120*	*11/04/24 17:30*	*11/05/24 14:10*	*1*
Tetrachloro-m-xylene	*59*		*30 - 124*	*11/04/24 17:30*	*11/05/24 14:10*	*1*
Tetrachloro-m-xylene	*69*		*30 - 124*	*11/04/24 17:30*	*11/05/24 14:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.21	U	0.21	0.041	mg/Kg	☼	11/04/24 17:38	11/07/24 01:47	1
PCB-1221	0.21	U	0.21	0.041	mg/Kg	☼	11/04/24 17:38	11/07/24 01:47	1
PCB-1232	0.21	U	0.21	0.041	mg/Kg	☼	11/04/24 17:38	11/07/24 01:47	1
PCB-1242	0.21	U	0.21	0.041	mg/Kg	☼	11/04/24 17:38	11/07/24 01:47	1

Client Sample ID: BH-9 (4-6')
Lab Sample ID: 480-225073-6
Date Collected: 11/01/24 16:45
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	0.21	U	0.21	0.041	mg/Kg	☼	11/04/24 17:38	11/07/24 01:47	1
PCB-1254	0.21	U	0.21	0.098	mg/Kg	☼	11/04/24 17:38	11/07/24 01:47	1
PCB-1260	0.21	U	0.21	0.098	mg/Kg	☼	11/04/24 17:38	11/07/24 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*129*		*60 - 154*	*11/04/24 17:38*	*11/07/24 01:47*	*1*
Tetrachloro-m-xylene	*105*		*60 - 154*	*11/04/24 17:38*	*11/07/24 01:47*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*11/04/24 17:38*	*11/07/24 01:47*	*1*
DCB Decachlorobiphenyl	*89*		*65 - 174*	*11/04/24 17:38*	*11/07/24 01:47*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	19	U	19	6.9	ug/Kg	☼	11/07/24 09:45	11/12/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*11/07/24 09:45*	*11/12/24 15:47*	*1*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*11/07/24 09:45*	*11/12/24 15:47*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.77	U	0.77	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.096	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorooctanesulfonic acid (PFOS)	**0.25**		0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1

Client Sample ID: BH-9 (4-6')
Lab Sample ID: 480-225073-6
Date Collected: 11/01/24 16:45
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 85.2

Method: EPA Draft-3 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)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.48	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.48	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.77	U	0.77	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.77	U	0.77	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.096	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.096	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.77	U	0.77	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.77	U	0.77	0.19	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U	0.38	0.096	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.96	U	0.96	0.24	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.8	U	4.8	1.2	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.8	U	4.8	1.2	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.048	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.096	ug/Kg	☼	11/06/24 08:26	11/06/24 20:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*84.5*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C5 PFPeA	*75.6*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C5 PFHxA	*78.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C4 PFHpA	*80.0*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C8 PFOA	*88.5*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C9 PFNA	*89.8*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C6 PFDA	*82.9*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C7 PFUnA	*84.3*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C2 PFTeDA	*68.8*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C3 PFBS	*95.6*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C3 PFHxS	*88.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C8 PFOS	*82.7*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C8 PFOSA	*81.3*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
d3-NMeFOSAA	*84.2*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
d5-NEtFOSAA	*115*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
M2-4:2 FTS	*97.6*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
M2-6:2 FTS	*101*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
M2-8:2 FTS	*103*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C3 HFPO-DA	*74.6*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
d7-N-MeFOSE-M	*74.0*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
d9-N-EtFOSE-M	*68.2*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*

Client Sample ID: BH-9 (4-6')
Date Collected: 11/01/24 16:45
Date Received: 11/01/24 17:45

Lab Sample ID: 480-225073-6
Matrix: Solid
Percent Solids: 85.2

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtPFOSA	*60.5*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
D3-NMeFOSA	*61.4*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*
13C2-PFDoDA	*78.3*		*20 - 150*	*11/06/24 08:26*	*11/06/24 20:41*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1880**		11.5	9.9	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Antimony	17.3	U	17.3	0.61	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Arsenic	**1.4**	**J**	2.3	1.0	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Barium	**12.2**		0.58	0.16	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Beryllium	**0.10**	**J**	0.23	0.046	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Cadmium	**1.4**		0.23	0.081	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Calcium	**181000**		577	311	mg/Kg	☼	11/04/24 15:50	11/06/24 11:47	10
Chromium	**3.5**		0.58	0.42	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Cobalt	**0.69**		0.58	0.12	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Copper	**3.7**		1.2	0.66	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Iron	**3940**		11.5	9.8	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Lead	**21.5**		1.2	0.53	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Magnesium	**105000**		231	97.8	mg/Kg	☼	11/04/24 15:50	11/06/24 11:47	10
Manganese	**417**		1.2	0.32	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Nickel	**2.1**	**J**	5.8	0.29	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Potassium	**688**		34.6	28.0	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Selenium	4.6	U	4.6	0.92	mg/Kg	☼	11/04/24 15:50	11/06/24 16:50	1
Silver	0.69	U	0.69	0.23	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Sodium	**158**	**J**	161	70.7	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Thallium	**1.3**	**J**	6.9	0.88	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Vanadium	**4.0**		0.58	0.15	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1
Zinc	**282**		2.3	1.2	mg/Kg	☼	11/04/24 15:50	11/05/24 18:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.023	0.0054	mg/Kg	☼	11/06/24 09:00	11/06/24 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.3	U	2.3	0.97	mg/Kg	☼	11/13/24 09:45	11/13/24 12:30	1
Cyanide, Total (SW846 9012B)	1.0	U	1.0	0.48	mg/Kg	☼	11/09/24 13:40	11/09/24 18:13	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225073-1
Project/Site: The Nest Site Analysis

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-225073-1	BH-6 (2-4')	102	89	85	93
480-225073-3	BH-3 (2-4')	101	90	81	93
480-225073-4	BH-8 (2-6')	94	91	89	96
480-225073-5	BH-5 (2-6')	93	86	91	92
480-225073-6	BH-9 (4-6')	93	87	87	92
LCS 480-731419/1-A	Lab Control Sample	90	87	93	90
LCSD 480-731419/2-A	Lab Control Sample Dup	92	87	92	92
MB 480-731419/3-A	Method Blank	91	88	97	94

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (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	PHL	TPHd14
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(41-120)	(46-143)
480-225073-1	BH-6 (2-4')	67	59	59	56	62	73
480-225073-2	BH-6 (7-8') NATIVE	78	80	86	80	84	85
480-225073-3	BH-3 (2-4')	63	77	60	73	61	82
480-225073-4	BH-8 (2-6')	76	72	58	69	61	78
480-225073-5	BH-5 (2-6')	69	74	64	68	69	83
480-225073-6	BH-9 (4-6')	75	60	62	60	62	78
LCS 480-731285/2-A	Lab Control Sample	93	87	86	83	88	95
MB 480-731285/1-A	Method Blank	93	85	95	87	96	101

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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)
480-225073-1	BH-6 (2-4')	60	100	63	65
480-225073-2	BH-6 (7-8') NATIVE	68	86	67	78
480-225073-3	BH-3 (2-4')	0 S1-	0 S1-	0 S1-	0 S1-
480-225073-4	BH-8 (2-6')	164 S1+	315 S1+	0 S1-	0 S1-
480-225073-5	BH-5 (2-6')	0 S1-	0 S1-	85	77
480-225073-6	BH-9 (4-6')	64	80	59	69
LCS 480-731139/2-A	Lab Control Sample	71	83	62	70

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

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)
MB 480-731139/1-A	Method Blank	53	74	59	64

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)
480-225073-1	BH-6 (2-4')	112	137	95	126
480-225073-2	BH-6 (7-8') NATIVE	109	133	91	124
480-225073-3	BH-3 (2-4')	121	145	102	141
480-225073-4	BH-8 (2-6')	106	131	89	124
480-225073-5	BH-5 (2-6')	115	142	97	135
480-225073-6	BH-9 (4-6')	105	129	89	119
LCS 480-731142/2-A	Lab Control Sample	101	126	89	121
MB 480-731142/1-A	Method Blank	112	141	97	131

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)
480-225073-1	BH-6 (2-4')	68	68
480-225073-1 MS	BH-6 (2-4')	74	74
480-225073-1 MSD	BH-6 (2-4')	75	70
480-225073-2	BH-6 (7-8') NATIVE	75	76
480-225073-3	BH-3 (2-4')	54	51
480-225073-4	BH-8 (2-6')	56	52
480-225073-5	BH-5 (2-6')	75	73
480-225073-6	BH-9 (4-6')	70	73
LCS 480-731515/2-A	Lab Control Sample	78	81
MB 480-731515/1-A	Method Blank	94	87

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225073-1
Project/Site: The Nest Site Analysis

Method: Draft-3 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)
480-225073-1	BH-6 (2-4')	97.1	89.0	89.4	95.2	100	103	97.6	100
480-225073-2	BH-6 (7-8') NATIVE	107	101	102	107	112	120	110	106
480-225073-3	BH-3 (2-4')	83.3	74.2	75.1	79.2	85.7	83.5	71.5	78.4
480-225073-4	BH-8 (2-6')	104	96.0	98.2	102	109	112	98.6	104
480-225073-5	BH-5 (2-6')	110	101	100	107	108	115	108	112
480-225073-6	BH-9 (4-6')	84.5	75.6	78.1	80.0	88.5	89.8	82.9	84.3
480-225073-6 DU	BH-9 (4-6')	113	107	108	114	114	122	112	112
LCS 240-634107/3-A	Lab Control Sample	89.9	84.4	83.1	87.2	89.4	98.2	88.8	87.3
LLCS 240-634107/2-A	Lab Control Sample	98.2	94.3	94.2	97.5	102	103	99.5	97.7
MB 240-634107/1-A	Method Blank	81.1	75.1	73.2	75.5	84.7	93.3	81.6	79.0

		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)
480-225073-1	BH-6 (2-4')	88.1	108	99.0	94.8	92.8	91.6	126	120
480-225073-2	BH-6 (7-8') NATIVE	81.1	116	107	107	101	105	124	123
480-225073-3	BH-3 (2-4')	74.7	92.6	83.5	84.2	98.7	86.1	107	104
480-225073-4	BH-8 (2-6')	113	110	104	102	102	103	117	130
480-225073-5	BH-5 (2-6')	93.7	117	109	104	101	98.8	134	136
480-225073-6	BH-9 (4-6')	68.8	95.6	88.1	82.7	81.3	84.2	115	97.6
480-225073-6 DU	BH-9 (4-6')	99.0	119	113	113	114	116	129	136
LCS 240-634107/3-A	Lab Control Sample	65.4	99.8	91.2	90.8	89.6	83.6	118	108
LLCS 240-634107/2-A	Lab Control Sample	83.4	109	100	101	101	103	126	123
MB 240-634107/1-A	Method Blank	64.8	94.4	87.5	84.4	84.6	91.5	148	97.3

		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)
480-225073-1	BH-6 (2-4')	118	105	83.9	90.1	84.1	65.4	69.9	96.6
480-225073-2	BH-6 (7-8') NATIVE	120	122	94.8	99.7	91.1	74.0	74.9	98.4
480-225073-3	BH-3 (2-4')	112	107	71.0	78.5	77.1	88.4	75.1	88.8
480-225073-4	BH-8 (2-6')	125	117	87.4	94.6	86.9	82.8	81.6	103
480-225073-5	BH-5 (2-6')	130	128	94.4	104	96.1	82.2	81.5	104
480-225073-6	BH-9 (4-6')	101	103	74.6	74.0	68.2	60.5	61.4	78.3
480-225073-6 DU	BH-9 (4-6')	124	127	102	108	101	81.9	79.0	118
LCS 240-634107/3-A	Lab Control Sample	107	104	79.1	87.6	80.1	62.5	65.1	82.5
LLCS 240-634107/2-A	Lab Control Sample	117	117	87.3	96.1	88.1	72.1	70.3	95.1
MB 240-634107/1-A	Method Blank	95.5	95.6	71.3	80.2	73.6	60.7	60.9	78.5

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

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225073-1
Project/Site: The Nest Site Analysis

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 480-731419/3-A
Matrix: Solid
Analysis Batch: 731454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
2-Hexanone	25	U	25	2.5	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Acetone	25	U	25	4.2	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Benzene	5.0	U	5.0	0.25	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Chloroform	0.525	J	5.0	0.31	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Chloromethane	5.0	U	5.0	0.30	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Methyl acetate	25	U	25	3.0	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Methylene Chloride	5.82		5.0	2.3	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Styrene	5.0	U	5.0	0.25	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Toluene	5.0	U	5.0	0.38	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		11/06/24 14:31	11/06/24 22:18	1
Xylenes, Total	10	U	10	0.84	ug/Kg		11/06/24 14:31	11/06/24 22:18	1

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

Lab Sample ID: MB 480-731419/3-A
Matrix: Solid
Analysis Batch: 731454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731419

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	11/06/24 14:31	11/06/24 22:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		71 - 125	11/06/24 14:31	11/06/24 22:18	1
1,2-Dichloroethane-d4 (Surr)	88		64 - 126	11/06/24 14:31	11/06/24 22:18	1
4-Bromofluorobenzene (Surr)	97		72 - 126	11/06/24 14:31	11/06/24 22:18	1
Dibromofluoromethane (Surr)	94		60 - 140	11/06/24 14:31	11/06/24 22:18	1

Lab Sample ID: LCS 480-731419/1-A
Matrix: Solid
Analysis Batch: 731454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	41.3		ug/Kg		83	77 - 121
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/Kg		101	80 - 120
1,1,2-Trichloroethane	50.0	48.1		ug/Kg		96	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	40.3		ug/Kg		81	60 - 140
1,1-Dichloroethane	50.0	44.8		ug/Kg		90	73 - 126
1,1-Dichloroethene	50.0	44.8		ug/Kg		90	59 - 125
1,2,4-Trichlorobenzene	50.0	45.3		ug/Kg		91	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	42.5		ug/Kg		85	63 - 124
1,2-Dichlorobenzene	50.0	47.6		ug/Kg		95	75 - 120
1,2-Dichloroethane	50.0	45.4		ug/Kg		91	77 - 122
1,2-Dichloropropane	50.0	48.3		ug/Kg		97	75 - 124
1,3-Dichlorobenzene	50.0	47.8		ug/Kg		96	74 - 120
1,4-Dichlorobenzene	50.0	47.7		ug/Kg		95	73 - 120
2-Butanone (MEK)	250	264		ug/Kg		106	70 - 134
2-Hexanone	250	260		ug/Kg		104	59 - 130
4-Methyl-2-pentanone (MIBK)	250	244		ug/Kg		97	65 - 133
Acetone	250	266		ug/Kg		107	61 - 137
Benzene	50.0	48.3		ug/Kg		97	79 - 127
Bromodichloromethane	50.0	46.3		ug/Kg		93	80 - 122
Bromoform	50.0	45.1		ug/Kg		90	68 - 126
Bromomethane	50.0	39.7		ug/Kg		79	37 - 149
Carbon disulfide	50.0	43.0		ug/Kg		86	64 - 131
Carbon tetrachloride	50.0	39.4		ug/Kg		79	75 - 135
Chlorobenzene	50.0	49.9		ug/Kg		100	76 - 124
Dibromochloromethane	50.0	47.4		ug/Kg		95	76 - 125
Chloroethane	50.0	40.6		ug/Kg		81	69 - 135
Chloroform	50.0	43.8		ug/Kg		88	80 - 120
Chloromethane	50.0	34.6		ug/Kg		69	63 - 127
cis-1,2-Dichloroethene	50.0	47.1		ug/Kg		94	81 - 120
cis-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	80 - 120
Cyclohexane	50.0	44.2		ug/Kg		88	65 - 120
Dichlorodifluoromethane	50.0	31.6		ug/Kg		63	57 - 142
Ethylbenzene	50.0	48.5		ug/Kg		97	80 - 120
1,2-Dibromoethane	50.0	51.6		ug/Kg		103	78 - 120

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

Lab Sample ID: LCS 480-731419/1-A
Matrix: Solid
Analysis Batch: 731454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731419

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Isopropylbenzene			50.0	48.4		ug/Kg		97	72 - 120		
Methyl acetate			100	99.7		ug/Kg		100	55 - 136		
Methyl tert-butyl ether			50.0	43.9		ug/Kg		88	63 - 125		
Methylcyclohexane			50.0	46.2		ug/Kg		92	60 - 140		
Methylene Chloride			50.0	51.0		ug/Kg		102	61 - 127		
Styrene			50.0	48.7		ug/Kg		97	80 - 120		
Tetrachloroethene			50.0	48.3		ug/Kg		97	74 - 122		
Toluene			50.0	47.9		ug/Kg		96	74 - 128		
trans-1,2-Dichloroethene			50.0	46.9		ug/Kg		94	78 - 126		
trans-1,3-Dichloropropene			50.0	50.5		ug/Kg		101	73 - 123		
Trichloroethene			50.0	47.3		ug/Kg		95	77 - 129		
Trichlorofluoromethane			50.0	38.8		ug/Kg		78	65 - 146		
Vinyl chloride			50.0	38.0		ug/Kg		76	61 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*87*		*64 - 126*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*
Dibromofluoromethane (Surr)	*90*		*60 - 140*

Lab Sample ID: LCSD 480-731419/2-A
Matrix: Solid
Analysis Batch: 731454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731419

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	41.7		ug/Kg		83	77 - 121	1	20
1,1,2,2-Tetrachloroethane			50.0	49.4		ug/Kg		99	80 - 120	2	20
1,1,2-Trichloroethane			50.0	49.8		ug/Kg		100	78 - 122	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	43.9		ug/Kg		88	60 - 140	9	20
1,1-Dichloroethane			50.0	44.5		ug/Kg		89	73 - 126	1	20
1,1-Dichloroethene			50.0	43.7		ug/Kg		87	59 - 125	3	20
1,2,4-Trichlorobenzene			50.0	47.3		ug/Kg		95	64 - 120	4	20
1,2-Dibromo-3-Chloropropane			50.0	44.7		ug/Kg		89	63 - 124	5	20
1,2-Dichlorobenzene			50.0	47.6		ug/Kg		95	75 - 120	0	20
1,2-Dichloroethane			50.0	47.0		ug/Kg		94	77 - 122	4	20
1,2-Dichloropropane			50.0	48.1		ug/Kg		96	75 - 124	0	20
1,3-Dichlorobenzene			50.0	46.7		ug/Kg		93	74 - 120	2	20
1,4-Dichlorobenzene			50.0	46.3		ug/Kg		93	73 - 120	3	20
2-Butanone (MEK)			250	261		ug/Kg		105	70 - 134	1	20
2-Hexanone			250	255		ug/Kg		102	59 - 130	2	20
4-Methyl-2-pentanone (MIBK)			250	246		ug/Kg		99	65 - 133	1	20
Acetone			250	211	*1	ug/Kg		84	61 - 137	23	20
Benzene			50.0	47.1		ug/Kg		94	79 - 127	3	20
Bromodichloromethane			50.0	47.0		ug/Kg		94	80 - 122	1	20
Bromoform			50.0	45.8		ug/Kg		92	68 - 126	2	20
Bromomethane			50.0	40.8		ug/Kg		82	37 - 149	3	20
Carbon disulfide			50.0	43.6		ug/Kg		87	64 - 131	1	20
Carbon tetrachloride			50.0	39.4		ug/Kg		79	75 - 135	0	20

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

Lab Sample ID: LCSD 480-731419/2-A
Matrix: Solid
Analysis Batch: 731454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731419

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	49.7		ug/Kg		99	76 - 124	1	20
Dibromochloromethane			50.0	48.4		ug/Kg		97	76 - 125	2	20
Chloroethane			50.0	41.7		ug/Kg		83	69 - 135	3	20
Chloroform			50.0	44.3		ug/Kg		89	80 - 120	1	20
Chloromethane			50.0	41.2		ug/Kg		82	63 - 127	18	20
cis-1,2-Dichloroethene			50.0	46.0		ug/Kg		92	81 - 120	2	20
cis-1,3-Dichloropropene			50.0	48.3		ug/Kg		97	80 - 120	3	20
Cyclohexane			50.0	44.1		ug/Kg		88	65 - 120	0	20
Dichlorodifluoromethane			50.0	33.1		ug/Kg		66	57 - 142	5	20
Ethylbenzene			50.0	47.5		ug/Kg		95	80 - 120	2	20
1,2-Dibromoethane			50.0	52.7		ug/Kg		105	78 - 120	2	20
Isopropylbenzene			50.0	47.5		ug/Kg		95	72 - 120	2	20
Methyl acetate			100	87.0		ug/Kg		87	55 - 136	14	20
Methyl tert-butyl ether			50.0	45.9		ug/Kg		92	63 - 125	4	20
Methylcyclohexane			50.0	44.9		ug/Kg		90	60 - 140	3	20
Methylene Chloride			50.0	49.8		ug/Kg		100	61 - 127	2	20
Styrene			50.0	47.2		ug/Kg		94	80 - 120	3	20
Tetrachloroethene			50.0	47.5		ug/Kg		95	74 - 122	2	20
Toluene			50.0	47.0		ug/Kg		94	74 - 128	2	20
trans-1,2-Dichloroethene			50.0	46.8		ug/Kg		94	78 - 126	0	20
trans-1,3-Dichloropropene			50.0	50.2		ug/Kg		100	73 - 123	1	20
Trichloroethene			50.0	46.4		ug/Kg		93	77 - 129	2	20
Trichlorofluoromethane			50.0	39.8		ug/Kg		80	65 - 146	2	20
Vinyl chloride			50.0	38.6		ug/Kg		77	61 - 133	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*87*		*64 - 126*
4-Bromofluorobenzene (Surr)	*92*		*72 - 126*
Dibromofluoromethane (Surr)	*92*		*60 - 140*

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

Lab Sample ID: MB 480-731285/1-A
Matrix: Solid
Analysis Batch: 731322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	55	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2,4,5-Trichlorophenol	170	U	170	46	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2,4,6-Trichlorophenol	170	U	170	34	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2,4-Dichlorophenol	170	U	170	18	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2,4-Dimethylphenol	170	U	170	41	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2,4-Dinitrophenol	1700	U	1700	780	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2,4-Dinitrotoluene	170	U	170	35	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2,6-Dinitrotoluene	170	U	170	20	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2-Chloronaphthalene	170	U	170	28	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2-Chlorophenol	330	U	330	31	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2-Methylnaphthalene	170	U	170	34	ug/Kg		11/05/24 17:56	11/06/24 13:51	1

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

Lab Sample ID: MB 480-731285/1-A
Matrix: Solid
Analysis Batch: 731322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	170	U	170	20	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2-Nitroaniline	330	U	330	25	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
2-Nitrophenol	170	U	170	48	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
3,3'-Dichlorobenzidine	330	U	330	200	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
3-Nitroaniline	330	U	330	47	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
4,6-Dinitro-2-methylphenol	330	U	330	170	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
4-Bromophenyl phenyl ether	170	U	170	24	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
4-Chloro-3-methylphenol	170	U	170	42	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
4-Chloroaniline	170	U	170	42	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
4-Chlorophenyl phenyl ether	170	U	170	21	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
4-Methylphenol	330	U	330	20	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
4-Nitroaniline	330	U	330	89	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
4-Nitrophenol	330	U	330	120	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Acenaphthene	170	U	170	25	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Acenaphthylene	170	U	170	22	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Acetophenone	170	U	170	23	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Anthracene	170	U	170	42	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Atrazine	170	U	170	59	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Benzaldehyde	170	U	170	140	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Biphenyl	170	U	170	25	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
bis (2-chloroisopropyl) ether	170	U	170	34	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Bis(2-chloroethoxy)methane	170	U	170	36	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Bis(2-chloroethyl)ether	170	U	170	22	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Bis(2-ethylhexyl) phthalate	170	U	170	58	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Butyl benzyl phthalate	170	U	170	28	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Caprolactam	170	U	170	51	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Carbazole	170	U	170	20	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Chrysene	170	U	170	38	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Dibenzofuran	170	U	170	20	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Diethyl phthalate	170	U	170	22	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Dimethyl phthalate	170	U	170	20	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Di-n-butyl phthalate	170	U	170	29	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Di-n-octyl phthalate	170	U	170	20	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Fluoranthene	170	U	170	18	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Fluorene	170	U	170	20	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Hexachlorobenzene	170	U	170	23	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Hexachlorobutadiene	170	U	170	25	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Hexachlorocyclopentadiene	170	U	170	23	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Hexachloroethane	170	U	170	22	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Isophorone	170	U	170	36	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Naphthalene	170	U	170	22	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Nitrobenzene	170	U	170	19	ug/Kg		11/05/24 17:56	11/06/24 13:51	1

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

Lab Sample ID: MB 480-731285/1-A
Matrix: Solid
Analysis Batch: 731322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	170	U	170	29	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
N-Nitrosodiphenylamine	170	U	170	140	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Pentachlorophenol	330	U	330	170	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Phenanthrene	170	U	170	25	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Phenol	170	U	170	26	ug/Kg		11/05/24 17:56	11/06/24 13:51	1
Pyrene	170	U	170	20	ug/Kg		11/05/24 17:56	11/06/24 13:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*26 - 143*	*11/05/24 17:56*	*11/06/24 13:51*	*1*
2-Fluorobiphenyl (Surr)	*85*		*50 - 121*	*11/05/24 17:56*	*11/06/24 13:51*	*1*
2-Fluorophenol (Surr)	*95*		*36 - 120*	*11/05/24 17:56*	*11/06/24 13:51*	*1*
Nitrobenzene-d5 (Surr)	*87*		*40 - 121*	*11/05/24 17:56*	*11/06/24 13:51*	*1*
Phenol-d5 (Surr)	*96*		*41 - 120*	*11/05/24 17:56*	*11/06/24 13:51*	*1*
p-Terphenyl-d14 (Surr)	*101*		*46 - 143*	*11/05/24 17:56*	*11/06/24 13:51*	*1*

Lab Sample ID: LCS 480-731285/2-A
Matrix: Solid
Analysis Batch: 731322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1330	608		ug/Kg		46	23 - 120
2,4,5-Trichlorophenol	1330	1240		ug/Kg		93	59 - 126
2,4,6-Trichlorophenol	1330	1220		ug/Kg		91	59 - 123
2,4-Dichlorophenol	1330	1210		ug/Kg		91	61 - 120
2,4-Dimethylphenol	1330	1220		ug/Kg		91	59 - 120
2,4-Dinitrophenol	2670	2560		ug/Kg		96	41 - 146
2,4-Dinitrotoluene	1330	1310		ug/Kg		98	63 - 120
2,6-Dinitrotoluene	1330	1270		ug/Kg		95	66 - 120
2-Chloronaphthalene	1330	1190		ug/Kg		89	57 - 120
2-Chlorophenol	1330	1160		ug/Kg		87	53 - 120
2-Methylnaphthalene	1330	1170		ug/Kg		87	59 - 120
2-Methylphenol	1330	1150		ug/Kg		86	54 - 120
2-Nitroaniline	1330	1420		ug/Kg		107	61 - 120
2-Nitrophenol	1330	1160		ug/Kg		87	56 - 120
3,3'-Dichlorobenzidine	1330	1010		ug/Kg		76	54 - 120
3-Nitroaniline	1330	1170		ug/Kg		88	48 - 120
4,6-Dinitro-2-methylphenol	2670	2730		ug/Kg		102	49 - 122
4-Bromophenyl phenyl ether	1330	1290		ug/Kg		96	58 - 120
4-Chloro-3-methylphenol	1330	1260		ug/Kg		94	61 - 120
4-Chloroaniline	1330	1120		ug/Kg		84	38 - 120
4-Chlorophenyl phenyl ether	1330	1230		ug/Kg		92	63 - 124
4-Methylphenol	1330	1180		ug/Kg		88	55 - 120
4-Nitroaniline	1330	1260		ug/Kg		94	56 - 120
4-Nitrophenol	2670	2730		ug/Kg		102	43 - 147
Acenaphthene	1330	1200		ug/Kg		90	62 - 120
Acenaphthylene	1330	1270		ug/Kg		96	58 - 121
Acetophenone	1330	1170		ug/Kg		88	54 - 120
Anthracene	1330	1290		ug/Kg		97	62 - 120

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

Lab Sample ID: LCS 480-731285/2-A
Matrix: Solid
Analysis Batch: 731322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	1330	1390		ug/Kg		104	60 - 127
Benzaldehyde	1330	1120		ug/Kg		84	10 - 150
Benzo[a]anthracene	1330	1300		ug/Kg		98	65 - 120
Benzo[a]pyrene	1330	1340		ug/Kg		101	64 - 120
Benzo[b]fluoranthene	1330	1310		ug/Kg		98	64 - 120
Benzo[g,h,i]perylene	1330	1360		ug/Kg		102	45 - 145
Benzo[k]fluoranthene	1330	1310		ug/Kg		98	65 - 120
Biphenyl	1330	1210		ug/Kg		90	59 - 120
bis (2-chloroisopropyl) ether	1330	1170		ug/Kg		88	44 - 120
Bis(2-chloroethoxy)methane	1330	1220		ug/Kg		91	55 - 120
Bis(2-chloroethyl)ether	1330	1130		ug/Kg		85	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1410		ug/Kg		105	61 - 133
Butyl benzyl phthalate	1330	1410		ug/Kg		105	61 - 129
Caprolactam	1330	1280		ug/Kg		96	47 - 120
Carbazole	1330	1330		ug/Kg		100	65 - 120
Chrysene	1330	1260		ug/Kg		94	64 - 120
Dibenz(a,h)anthracene	1330	1370		ug/Kg		103	54 - 132
Dibenzofuran	1330	1190		ug/Kg		90	63 - 120
Diethyl phthalate	1330	1340		ug/Kg		100	66 - 120
Dimethyl phthalate	1330	1290		ug/Kg		97	65 - 124
Di-n-butyl phthalate	1330	1370		ug/Kg		102	58 - 130
Di-n-octyl phthalate	1330	1490		ug/Kg		112	57 - 133
Fluoranthene	1330	1320		ug/Kg		99	62 - 120
Fluorene	1330	1230		ug/Kg		92	63 - 120
Hexachlorobenzene	1330	1260		ug/Kg		95	60 - 120
Hexachlorobutadiene	1330	1060		ug/Kg		80	45 - 120
Hexachlorocyclopentadiene	1330	1060		ug/Kg		80	47 - 120
Hexachloroethane	1330	996		ug/Kg		75	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1350		ug/Kg		101	56 - 134
Isophorone	1330	1250		ug/Kg		94	56 - 120
Naphthalene	1330	1110		ug/Kg		83	55 - 120
Nitrobenzene	1330	1190		ug/Kg		89	54 - 120
N-Nitrosodi-n-propylamine	1330	1180		ug/Kg		89	52 - 120
N-Nitrosodiphenylamine	1330	1300		ug/Kg		97	51 - 128
Pentachlorophenol	2670	2630		ug/Kg		98	10 - 120
Phenanthrene	1330	1280		ug/Kg		96	60 - 120
Phenol	1330	1110		ug/Kg		83	53 - 120
Pyrene	1330	1320		ug/Kg		99	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*26 - 143*
2-Fluorobiphenyl (Surr)	*87*		*50 - 121*
2-Fluorophenol (Surr)	*86*		*36 - 120*
Nitrobenzene-d5 (Surr)	*83*		*40 - 121*
Phenol-d5 (Surr)	*88*		*41 - 120*
p-Terphenyl-d14 (Surr)	*95*		*46 - 143*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-731139/1-A
Matrix: Solid
Analysis Batch: 731153

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.7	U	1.7	0.32	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
4,4'-DDE	1.7	U	1.7	0.35	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
4,4'-DDT	1.7	U	1.7	0.39	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Aldrin	1.7	U	1.7	0.41	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
alpha-BHC	1.7	U	1.7	0.30	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
beta-BHC	1.7	U	1.7	0.30	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Chlordane (.alpha.)	1.7	U	1.7	0.83	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
delta-BHC	1.7	U	1.7	0.31	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Dieldrin	1.7	U	1.7	0.40	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Endosulfan I	1.7	U	1.7	0.32	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Endosulfan II	1.7	U	1.7	0.30	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Endosulfan sulfate	1.7	U	1.7	0.31	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Endrin	1.7	U	1.7	0.33	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Heptachlor	1.7	U	1.7	0.36	ug/Kg		11/04/24 17:30	11/05/24 09:54	1
Lindane	1.7	U	1.7	0.31	ug/Kg		11/04/24 17:30	11/05/24 09:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*45 - 120*	*11/04/24 17:30*	*11/05/24 09:54*	*1*
DCB Decachlorobiphenyl	*74*		*45 - 120*	*11/04/24 17:30*	*11/05/24 09:54*	*1*
Tetrachloro-m-xylene	*59*		*30 - 124*	*11/04/24 17:30*	*11/05/24 09:54*	*1*
Tetrachloro-m-xylene	*64*		*30 - 124*	*11/04/24 17:30*	*11/05/24 09:54*	*1*

Lab Sample ID: LCS 480-731139/2-A
Matrix: Solid
Analysis Batch: 731153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731139

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			16.7	13.6		ug/Kg		82	56 - 120		
4,4'-DDE			16.7	11.6		ug/Kg		70	44 - 120		
4,4'-DDT			16.7	12.3		ug/Kg		74	38 - 120		
Aldrin			16.7	11.3		ug/Kg		68	38 - 120		
alpha-BHC			16.7	9.76		ug/Kg		59	39 - 120		
beta-BHC			16.7	11.1		ug/Kg		66	40 - 120		
Chlordane (.alpha.)			16.7	11.5		ug/Kg		69	47 - 120		
delta-BHC			16.7	10.1		ug/Kg		61	45 - 120		
Dieldrin			16.7	14.5		ug/Kg		87	58 - 120		
Endosulfan I			16.7	13.4		ug/Kg		81	49 - 120		
Endosulfan II			16.7	14.9		ug/Kg		89	55 - 120		
Endosulfan sulfate			16.7	13.4		ug/Kg		80	49 - 124		
Endrin			16.7	14.5		ug/Kg		87	58 - 120		
Heptachlor			16.7	10.6		ug/Kg		63	50 - 120		
Lindane			16.7	10.3		ug/Kg		62	50 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*71*		*45 - 120*
DCB Decachlorobiphenyl	*83*		*45 - 120*
Tetrachloro-m-xylene	*62*		*30 - 124*
Tetrachloro-m-xylene	*70*		*30 - 124*

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

Lab Sample ID: MB 480-731142/1-A
Matrix: Solid
Analysis Batch: 731306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.25	U	0.25	0.049	mg/Kg		11/04/24 17:38	11/06/24 19:25	1
PCB-1221	0.25	U	0.25	0.049	mg/Kg		11/04/24 17:38	11/06/24 19:25	1
PCB-1232	0.25	U	0.25	0.049	mg/Kg		11/04/24 17:38	11/06/24 19:25	1
PCB-1242	0.25	U	0.25	0.049	mg/Kg		11/04/24 17:38	11/06/24 19:25	1
PCB-1248	0.25	U	0.25	0.049	mg/Kg		11/04/24 17:38	11/06/24 19:25	1
PCB-1254	0.25	U	0.25	0.12	mg/Kg		11/04/24 17:38	11/06/24 19:25	1
PCB-1260	0.25	U	0.25	0.12	mg/Kg		11/04/24 17:38	11/06/24 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*141*		*60 - 154*	*11/04/24 17:38*	*11/06/24 19:25*	*1*
Tetrachloro-m-xylene	*112*		*60 - 154*	*11/04/24 17:38*	*11/06/24 19:25*	*1*
DCB Decachlorobiphenyl	*131*		*65 - 174*	*11/04/24 17:38*	*11/06/24 19:25*	*1*
DCB Decachlorobiphenyl	*97*		*65 - 174*	*11/04/24 17:38*	*11/06/24 19:25*	*1*

Lab Sample ID: LCS 480-731142/2-A
Matrix: Solid
Analysis Batch: 731497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731142

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			2.50	2.86		mg/Kg		115	51 - 185		
PCB-1260			2.50	2.81		mg/Kg		112	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*126*		*60 - 154*
Tetrachloro-m-xylene	*101*		*60 - 154*
DCB Decachlorobiphenyl	*121*		*65 - 174*
DCB Decachlorobiphenyl	*89*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-731515/1-A
Matrix: Solid
Analysis Batch: 732088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.0	ug/Kg		11/07/24 09:45	11/12/24 13:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*94*		*28 - 129*	*11/07/24 09:45*	*11/12/24 13:03*	*1*
2,4-Dichlorophenylacetic acid	*87*		*28 - 129*	*11/07/24 09:45*	*11/12/24 13:03*	*1*

Lab Sample ID: LCS 480-731515/2-A
Matrix: Solid
Analysis Batch: 732088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731515

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)			66.7	52.9		ug/Kg		79	39 - 125		

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

Lab Sample ID: LCS 480-731515/2-A
Matrix: Solid
Analysis Batch: 732088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731515

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	*78*		*28 - 129*
2,4-Dichlorophenylacetic acid	*81*		*28 - 129*

Lab Sample ID: 480-225073-1 MS
Matrix: Solid
Analysis Batch: 732088

Client Sample ID: BH-6 (2-4')
Prep Type: Total/NA
Prep Batch: 731515

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-TP (Silvex)	19	U	77.4	55.3		ug/Kg	☼	71	22 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*

Lab Sample ID: 480-225073-1 MSD
Matrix: Solid
Analysis Batch: 732088

Client Sample ID: BH-6 (2-4')
Prep Type: Total/NA
Prep Batch: 731515

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP (Silvex)	19	U	76.6	51.1		ug/Kg	☼	67	22 - 140	8	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-634107/1-A
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.80	U	0.80	0.20	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.10	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-634107/1-A
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.0	U	2.0	0.50	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0	U	2.0	0.50	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	0.80	0.20	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	0.80	0.20	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.10	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.10	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.80	U	0.80	0.20	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.80	U	0.80	0.20	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.10	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	1.0	0.25	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.050	ug/Kg		11/06/24 08:26	11/06/24 18:28	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.10	ug/Kg		11/06/24 08:26	11/06/24 18:28	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 18:28*	*1*
13C5 PFPeA	*75.1*		*20 - 150*	*11/06/24 08:26*	*11/06/24 18:28*	*1*
13C5 PFHxA	*73.2*		*20 - 150*	*11/06/24 08:26*	*11/06/24 18:28*	*1*
13C4 PFHpA	*75.5*		*20 - 150*	*11/06/24 08:26*	*11/06/24 18:28*	*1*
13C8 PFOA	*84.7*		*20 - 150*	*11/06/24 08:26*	*11/06/24 18:28*	*1*
13C9 PFNA	*93.3*		*20 - 150*	*11/06/24 08:26*	*11/06/24 18:28*	*1*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-634107/1-A
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634107

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	81.6		20 - 150	11/06/24 08:26	11/06/24 18:28	1
13C7 PFUnA	79.0		20 - 150	11/06/24 08:26	11/06/24 18:28	1
13C2 PFTeDA	64.8		20 - 150	11/06/24 08:26	11/06/24 18:28	1
13C3 PFBS	94.4		20 - 150	11/06/24 08:26	11/06/24 18:28	1
13C3 PFHxS	87.5		20 - 150	11/06/24 08:26	11/06/24 18:28	1
13C8 PFOS	84.4		20 - 150	11/06/24 08:26	11/06/24 18:28	1
13C8 PFOSA	84.6		20 - 150	11/06/24 08:26	11/06/24 18:28	1
d3-NMeFOSAA	91.5		20 - 150	11/06/24 08:26	11/06/24 18:28	1
d5-NEtFOSAA	148		20 - 150	11/06/24 08:26	11/06/24 18:28	1
M2-4:2 FTS	97.3		20 - 150	11/06/24 08:26	11/06/24 18:28	1
M2-6:2 FTS	95.5		20 - 150	11/06/24 08:26	11/06/24 18:28	1
M2-8:2 FTS	95.6		20 - 150	11/06/24 08:26	11/06/24 18:28	1
13C3 HFPO-DA	71.3		20 - 150	11/06/24 08:26	11/06/24 18:28	1
d7-N-MeFOSE-M	80.2		20 - 150	11/06/24 08:26	11/06/24 18:28	1
d9-N-EtFOSE-M	73.6		20 - 150	11/06/24 08:26	11/06/24 18:28	1
d5-NEtPFOSA	60.7		20 - 150	11/06/24 08:26	11/06/24 18:28	1
D3-NMeFOSA	60.9		20 - 150	11/06/24 08:26	11/06/24 18:28	1
13C2-PFDoDA	78.5		20 - 150	11/06/24 08:26	11/06/24 18:28	1

Lab Sample ID: LCS 240-634107/3-A
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	10.0	12.5		ug/Kg		125	40 - 150
Perfluoropentanoic acid (PFPeA)	5.00	5.35		ug/Kg		107	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.87		ug/Kg		115	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.85		ug/Kg		114	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.70		ug/Kg		108	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.68		ug/Kg		107	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	2.81		ug/Kg		112	40 - 150
Perfluoroundecanoic acid (PFUnA)	2.50	2.70		ug/Kg		108	40 - 150
Perfluorododecanoic acid (PFDoA)	2.50	2.86		ug/Kg		114	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.55		ug/Kg		102	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.63		ug/Kg		105	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.21	2.47		ug/Kg		112	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.75		ug/Kg		117	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.51		ug/Kg		110	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.38	2.69		ug/Kg		113	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.32	2.72		ug/Kg		117	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	2.67		ug/Kg		111	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-634107/3-A
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanesulfonic acid (PFDoS)	2.42	1.82		ug/Kg		75	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	10.5		ug/Kg		112	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	10.6		ug/Kg		112	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	11.4		ug/Kg		119	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.83		ug/Kg		113	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	3.17		ug/Kg		127	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.94		ug/Kg		118	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.99		ug/Kg		120	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.56		ug/Kg		102	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	28.4		ug/Kg		113	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	27.3		ug/Kg		109	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	11.4		ug/Kg		114	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	11.3		ug/Kg		120	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.00	5.46		ug/Kg		109	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.00	5.24		ug/Kg		105	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.32	10.4		ug/Kg		112	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	9.42	8.75		ug/Kg		93	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.45	4.83		ug/Kg		109	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	12.5	12.3		ug/Kg		98	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	62.5	65.1		ug/Kg		104	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	62.5	58.8		ug/Kg		94	40 - 150
Perfluorodecanesulfonic acid (PFDS)	2.41	2.52		ug/Kg		105	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.00	5.26		ug/Kg		105	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*89.9*		*20 - 150*
13C5 PFPeA	*84.4*		*20 - 150*
13C5 PFHxA	*83.1*		*20 - 150*
13C4 PFHpA	*87.2*		*20 - 150*
13C8 PFOA	*89.4*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-634107/3-A
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634107

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C9 PFNA	98.2		20 - 150
13C6 PFDA	88.8		20 - 150
13C7 PFUnA	87.3		20 - 150
13C2 PFTeDA	65.4		20 - 150
13C3 PFBS	99.8		20 - 150
13C3 PFHxS	91.2		20 - 150
13C8 PFOS	90.8		20 - 150
13C8 PFOSA	89.6		20 - 150
d3-NMeFOSAA	83.6		20 - 150
d5-NEtFOSAA	118		20 - 150
M2-4:2 FTS	108		20 - 150
M2-6:2 FTS	107		20 - 150
M2-8:2 FTS	104		20 - 150
13C3 HFPO-DA	79.1		20 - 150
d7-N-MeFOSE-M	87.6		20 - 150
d9-N-EtFOSE-M	80.1		20 - 150
d5-NEtPFOSA	62.5		20 - 150
D3-NMeFOSA	65.1		20 - 150
13C2-PFDoDA	82.5		20 - 150

Lab Sample ID: LLCS 240-634107/2-A
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634107

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	1.03		ug/Kg		129	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.428		ug/Kg		107	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.237		ug/Kg		118	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.205		ug/Kg		102	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.216		ug/Kg		108	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.208		ug/Kg		104	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.227		ug/Kg		114	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.200	0.227		ug/Kg		113	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.236		ug/Kg		118	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.213		ug/Kg		106	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.208		ug/Kg		104	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.183	J	ug/Kg		103	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.212		ug/Kg		113	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.205		ug/Kg		112	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.220		ug/Kg		115	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.186	0.235		ug/Kg		126	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-634107/2-A
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634107

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanesulfonic acid (PFNS)	0.192	0.211		ug/Kg		110	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.159	J	ug/Kg		82	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.823		ug/Kg		110	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.866		ug/Kg		114	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.997		ug/Kg		130	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.228		ug/Kg		114	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.251		ug/Kg		126	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.226		ug/Kg		113	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.208		ug/Kg		104	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.241		ug/Kg		121	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.21		ug/Kg		110	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	2.09		ug/Kg		104	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	0.965		ug/Kg		121	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.900		ug/Kg		119	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.400	0.439		ug/Kg		110	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.400	0.443		ug/Kg		111	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.746	0.863		ug/Kg		116	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.754	0.774	J	ug/Kg		103	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.356	0.361	J	ug/Kg		101	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.00	0.961	J	ug/Kg		96	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.00	5.16		ug/Kg		103	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.00	4.40	J	ug/Kg		88	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.193	0.211		ug/Kg		109	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.400	0.428		ug/Kg		107	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*98.2*		*20 - 150*
13C5 PFPeA	*94.3*		*20 - 150*
13C5 PFHxA	*94.2*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-634107/2-A
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634107

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFHpA	97.5		20 - 150
13C8 PFOA	102		20 - 150
13C9 PFNA	103		20 - 150
13C6 PFDA	99.5		20 - 150
13C7 PFUnA	97.7		20 - 150
13C2 PFTeDA	83.4		20 - 150
13C3 PFBS	109		20 - 150
13C3 PFHxS	100		20 - 150
13C8 PFOS	101		20 - 150
13C8 PFOSA	101		20 - 150
d3-NMeFOSAA	103		20 - 150
d5-NEtFOSAA	126		20 - 150
M2-4:2 FTS	123		20 - 150
M2-6:2 FTS	117		20 - 150
M2-8:2 FTS	117		20 - 150
13C3 HFPO-DA	87.3		20 - 150
d7-N-MeFOSE-M	96.1		20 - 150
d9-N-EtFOSE-M	88.1		20 - 150
d5-NEtPFOSA	72.1		20 - 150
D3-NMeFOSA	70.3		20 - 150
13C2-PFDoDA	95.1		20 - 150

Lab Sample ID: 480-225073-6 DU
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: BH-9 (4-6')
Prep Type: Total/NA
Prep Batch: 634107

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.77	U		0.78	U	ug/Kg	☼			NC	30
Perfluoropentanoic acid (PFPeA)	0.38	U		0.39	U	ug/Kg	☼			NC	30
Perfluorohexanoic acid (PFHxA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluoroheptanoic acid (PFHpA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluorooctanoic acid (PFOA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluorononanoic acid (PFNA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluorodecanoic acid (PFDA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluoroundecanoic acid (PFUnA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluorododecanoic acid (PFDoA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluorotridecanoic acid (PFTrDA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluorotetradecanoic acid (PFTeDA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluorobutanesulfonic acid (PFBS)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluoropentanesulfonic acid (PFPeS)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluorohexanesulfonic acid (PFHxS)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U		0.19	U	ug/Kg	☼			NC	30

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-225073-6 DU
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: BH-9 (4-6')
Prep Type: Total/NA
Prep Batch: 634107

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	0.25			0.213		ug/Kg	☼			18	30
Perfluorononanesulfonic acid (PFNS)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluorododecanesulfonic acid (PFDoS)	0.19	U		0.19	U	ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.77	U		0.78	U	ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.77	U		0.78	U	ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.77	U		0.78	U	ug/Kg	☼			NC	30
Perfluorooctanesulfonamide (PFOSA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U		0.19	U	ug/Kg	☼			NC	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U		1.9	U	ug/Kg	☼			NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U		1.9	U	ug/Kg	☼			NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.77	U		0.78	U	ug/Kg	☼			NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.77	U		0.78	U	ug/Kg	☼			NC	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U		0.39	U	ug/Kg	☼			NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U		0.39	U	ug/Kg	☼			NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.77	U		0.78	U	ug/Kg	☼			NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.77	U		0.78	U	ug/Kg	☼			NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U		0.39	U	ug/Kg	☼			NC	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.96	U		0.97	U	ug/Kg	☼			NC	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.8	U		4.9	U	ug/Kg	☼			NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.8	U		4.9	U	ug/Kg	☼			NC	30
Perfluorodecanesulfonic acid (PFDS)	0.19	U		0.19	U	ug/Kg	☼			NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U		0.39	U	ug/Kg	☼			NC	30

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
13C4 PFBA	*113*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-225073-6 DU
Matrix: Solid
Analysis Batch: 634254

Client Sample ID: BH-9 (4-6')
Prep Type: Total/NA
Prep Batch: 634107

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
13C5 PFPeA	*107*		*20 - 150*
13C5 PFHxA	*108*		*20 - 150*
13C4 PFHpA	*114*		*20 - 150*
13C8 PFOA	*114*		*20 - 150*
13C9 PFNA	*122*		*20 - 150*
13C6 PFDA	*112*		*20 - 150*
13C7 PFUnA	*112*		*20 - 150*
13C2 PFTeDA	*99.0*		*20 - 150*
13C3 PFBS	*119*		*20 - 150*
13C3 PFHxS	*113*		*20 - 150*
13C8 PFOS	*113*		*20 - 150*
13C8 PFOSA	*114*		*20 - 150*
d3-NMeFOSAA	*116*		*20 - 150*
d5-NEtFOSAA	*129*		*20 - 150*
M2-4:2 FTS	*136*		*20 - 150*
M2-6:2 FTS	*124*		*20 - 150*
M2-8:2 FTS	*127*		*20 - 150*
13C3 HFPO-DA	*102*		*20 - 150*
d7-N-MeFOSE-M	*108*		*20 - 150*
d9-N-EtFOSE-M	*101*		*20 - 150*
d5-NEtPFOSA	*81.9*		*20 - 150*
D3-NMeFOSA	*79.0*		*20 - 150*
13C2-PFDoDA	*118*		*20 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-731094/1-A
Matrix: Solid
Analysis Batch: 731317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.9	U	9.9	8.5	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Antimony	14.8	U	14.8	0.52	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Arsenic	2.0	U	2.0	0.87	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Barium	0.49	U	0.49	0.14	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Beryllium	0.20	U	0.20	0.040	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Cadmium	0.20	U	0.20	0.069	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Calcium	49.5	U	49.5	26.7	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Chromium	0.49	U	0.49	0.36	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Cobalt	0.49	U	0.49	0.099	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Copper	0.99	U	0.99	0.56	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Iron	9.9	U	9.9	8.4	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Lead	0.99	U	0.99	0.46	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Magnesium	19.8	U	19.8	8.4	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Manganese	0.99	U	0.99	0.28	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Nickel	4.9	U	4.9	0.25	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Potassium	29.7	U	29.7	24.0	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Selenium	4.0	U	4.0	0.79	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Silver	0.59	U	0.59	0.20	mg/Kg		11/04/24 15:50	11/05/24 18:04	1

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

Lab Sample ID: MB 480-731094/1-A
Matrix: Solid
Analysis Batch: 731317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	139	U	139	60.7	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Thallium	5.9	U	5.9	0.75	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Vanadium	0.49	U	0.49	0.13	mg/Kg		11/04/24 15:50	11/05/24 18:04	1
Zinc	2.0	U	2.0	1.0	mg/Kg		11/04/24 15:50	11/05/24 18:04	1

Lab Sample ID: LCSSRM 480-731094/2-A
Matrix: Solid
Analysis Batch: 731385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731094

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6780	6694		mg/Kg		98.7	47.8 - 151.9
Antimony	127	90.92		mg/Kg		71.6	20.2 - 250.4
Arsenic	311	231.3		mg/Kg		74.4	70.1 - 130.2
Barium	304	261.2		mg/Kg		85.9	75.0 - 125.0
Beryllium	169	140.8		mg/Kg		83.3	75.1 - 124.9
Cadmium	212	168.7		mg/Kg		79.6	75.0 - 125.0
Calcium	5170	4063		mg/Kg		78.6	72.9 - 126.9
Chromium	180	149.3		mg/Kg		83.0	70.0 - 130.0
Cobalt	81.6	71.26		mg/Kg		87.3	75.0 - 125.0
Copper	205	165.8		mg/Kg		80.9	75.1 - 124.9
Iron	6510	5508		mg/Kg		84.6	11.3 - 202.8
Lead	92.8	83.82	^+	mg/Kg		90.3	81.8 - 118.5
Magnesium	1700	1413		mg/Kg		83.1	55.6 - 144.1
Manganese	531	420.8		mg/Kg		79.2	77.2 - 122.8
Nickel	313	254.6		mg/Kg		81.3	70.0 - 130.0
Potassium	1370	1266		mg/Kg		92.4	52.0 - 148.2
Selenium	165	120.0		mg/Kg		72.7	67.9 - 132.1
Silver	82.4	64.17		mg/Kg		77.9	71.0 - 128.6
Sodium	486	395.0		mg/Kg		81.3	59.5 - 140.5
Thallium	205	178.0		mg/Kg		86.8	72.2 - 128.3
Vanadium	103	87.84		mg/Kg		85.3	68.0 - 132.0
Zinc	166	140.3		mg/Kg		84.5	70.5 - 130.1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-731315/1-A
Matrix: Solid
Analysis Batch: 731378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	U	0.021	0.0048	mg/Kg		11/06/24 09:00	11/06/24 10:52	1

Lab Sample ID: LCDSRM 480-731315/3-A ^10
Matrix: Solid
Analysis Batch: 731378

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731315

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			11.9	10.70		mg/Kg		89.9	59.8 - 139.5	7	20

Lab Sample ID: LCSSRM 480-731315/2-A ^10
Matrix: Solid
Analysis Batch: 731378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731315

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			11.9	9.98		mg/Kg		83.8	59.8 - 139.5

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-1006681/1-A
Matrix: Solid
Analysis Batch: 1006717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1006681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		11/13/24 09:45	11/13/24 12:00	1

Lab Sample ID: LCSI 460-1006681/3-A
Matrix: Solid
Analysis Batch: 1006717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1006681

Analyte			Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)			708	701.7		mg/Kg		99	80 - 120

Lab Sample ID: LCSSRM 460-1006681/2-A
Matrix: Solid
Analysis Batch: 1006717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1006681

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)			14.9	13.76		mg/Kg		92.1	84.2 - 114.5

Lab Sample ID: 480-225073-4 MSI
Matrix: Solid
Analysis Batch: 1006717

Client Sample ID: BH-8 (2-6')
Prep Type: Total/NA
Prep Batch: 1006681

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.2	U	766	776.9		mg/Kg	☼	101	75 - 125

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 480-225073-4 MSS
Matrix: Solid
Analysis Batch: 1006717

Client Sample ID: BH-8 (2-6')
Prep Type: Total/NA
Prep Batch: 1006681

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.2	U	43.3	36.80		mg/Kg	☼	85	75 - 125

Lab Sample ID: 480-225073-4 DU
Matrix: Solid
Analysis Batch: 1006717

Client Sample ID: BH-8 (2-6')
Prep Type: Total/NA
Prep Batch: 1006681

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	2.2	U	2.2	U	mg/Kg	☼	NC	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-731837/1-A
Matrix: Solid
Analysis Batch: 732076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.94	U	0.94	0.46	mg/Kg		11/09/24 13:40	11/09/24 18:02	1

Lab Sample ID: LCS 480-731837/3-A
Matrix: Solid
Analysis Batch: 732076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.401		mg/Kg		100	29 - 122

Lab Sample ID: LCS 480-731837/4-A
Matrix: Solid
Analysis Batch: 732076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.265		mg/Kg		106	29 - 122

Lab Sample ID: LCSSRM 480-731837/2-A
Matrix: Solid
Analysis Batch: 732076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731837

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	93.17		mg/Kg		62.1	38.9 - 138.7

GC/MS VOA

Prep Batch: 731419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	5035A_L	
480-225073-3	BH-3 (2-4')	Total/NA	Solid	5035A_L	
480-225073-4	BH-8 (2-6')	Total/NA	Solid	5035A_L	
480-225073-5	BH-5 (2-6')	Total/NA	Solid	5035A_L	
480-225073-6	BH-9 (4-6')	Total/NA	Solid	5035A_L	
MB 480-731419/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-731419/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-731419/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 731454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	8260C	731419
480-225073-3	BH-3 (2-4')	Total/NA	Solid	8260C	731419
480-225073-4	BH-8 (2-6')	Total/NA	Solid	8260C	731419
480-225073-5	BH-5 (2-6')	Total/NA	Solid	8260C	731419
480-225073-6	BH-9 (4-6')	Total/NA	Solid	8260C	731419
MB 480-731419/3-A	Method Blank	Total/NA	Solid	8260C	731419
LCS 480-731419/1-A	Lab Control Sample	Total/NA	Solid	8260C	731419
LCSD 480-731419/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	731419

GC/MS Semi VOA

Prep Batch: 731285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	3550C	
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	3550C	
480-225073-3	BH-3 (2-4')	Total/NA	Solid	3550C	
480-225073-4	BH-8 (2-6')	Total/NA	Solid	3550C	
480-225073-5	BH-5 (2-6')	Total/NA	Solid	3550C	
480-225073-6	BH-9 (4-6')	Total/NA	Solid	3550C	
MB 480-731285/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-731285/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 731322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	8270D	731285
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	8270D	731285
480-225073-3	BH-3 (2-4')	Total/NA	Solid	8270D	731285
480-225073-4	BH-8 (2-6')	Total/NA	Solid	8270D	731285
480-225073-5	BH-5 (2-6')	Total/NA	Solid	8270D	731285
480-225073-6	BH-9 (4-6')	Total/NA	Solid	8270D	731285
MB 480-731285/1-A	Method Blank	Total/NA	Solid	8270D	731285
LCS 480-731285/2-A	Lab Control Sample	Total/NA	Solid	8270D	731285

GC Semi VOA

Prep Batch: 731139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	3550C	
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	3550C	
480-225073-3	BH-3 (2-4')	Total/NA	Solid	3550C	
480-225073-4	BH-8 (2-6')	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 731139 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-5	BH-5 (2-6')	Total/NA	Solid	3550C	
480-225073-6	BH-9 (4-6')	Total/NA	Solid	3550C	
MB 480-731139/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-731139/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 731142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	3550C	
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	3550C	
480-225073-3	BH-3 (2-4')	Total/NA	Solid	3550C	
480-225073-4	BH-8 (2-6')	Total/NA	Solid	3550C	
480-225073-5	BH-5 (2-6')	Total/NA	Solid	3550C	
480-225073-6	BH-9 (4-6')	Total/NA	Solid	3550C	
MB 480-731142/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-731142/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 731153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	8081B	731139
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	8081B	731139
480-225073-3	BH-3 (2-4')	Total/NA	Solid	8081B	731139
480-225073-4	BH-8 (2-6')	Total/NA	Solid	8081B	731139
480-225073-5	BH-5 (2-6')	Total/NA	Solid	8081B	731139
480-225073-6	BH-9 (4-6')	Total/NA	Solid	8081B	731139
MB 480-731139/1-A	Method Blank	Total/NA	Solid	8081B	731139
LCS 480-731139/2-A	Lab Control Sample	Total/NA	Solid	8081B	731139

Analysis Batch: 731306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	8082A	731142
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	8082A	731142
480-225073-3	BH-3 (2-4')	Total/NA	Solid	8082A	731142
480-225073-4	BH-8 (2-6')	Total/NA	Solid	8082A	731142
480-225073-5	BH-5 (2-6')	Total/NA	Solid	8082A	731142
480-225073-6	BH-9 (4-6')	Total/NA	Solid	8082A	731142
MB 480-731142/1-A	Method Blank	Total/NA	Solid	8082A	731142

Analysis Batch: 731497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-731142/2-A	Lab Control Sample	Total/NA	Solid	8082A	731142

Prep Batch: 731515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	8151A	
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	8151A	
480-225073-3	BH-3 (2-4')	Total/NA	Solid	8151A	
480-225073-4	BH-8 (2-6')	Total/NA	Solid	8151A	
480-225073-5	BH-5 (2-6')	Total/NA	Solid	8151A	
480-225073-6	BH-9 (4-6')	Total/NA	Solid	8151A	
MB 480-731515/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-731515/2-A	Lab Control Sample	Total/NA	Solid	8151A	

GC Semi VOA (Continued)

Prep Batch: 731515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1 MS	BH-6 (2-4')	Total/NA	Solid	8151A	
480-225073-1 MSD	BH-6 (2-4')	Total/NA	Solid	8151A	

Analysis Batch: 732088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	8151A	731515
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	8151A	731515
480-225073-3	BH-3 (2-4')	Total/NA	Solid	8151A	731515
480-225073-4	BH-8 (2-6')	Total/NA	Solid	8151A	731515
480-225073-5	BH-5 (2-6')	Total/NA	Solid	8151A	731515
480-225073-6	BH-9 (4-6')	Total/NA	Solid	8151A	731515
MB 480-731515/1-A	Method Blank	Total/NA	Solid	8151A	731515
LCS 480-731515/2-A	Lab Control Sample	Total/NA	Solid	8151A	731515
480-225073-1 MS	BH-6 (2-4')	Total/NA	Solid	8151A	731515
480-225073-1 MSD	BH-6 (2-4')	Total/NA	Solid	8151A	731515

LCMS

Prep Batch: 634107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	1633 Shake	
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	1633 Shake	
480-225073-3	BH-3 (2-4')	Total/NA	Solid	1633 Shake	
480-225073-4	BH-8 (2-6')	Total/NA	Solid	1633 Shake	
480-225073-5	BH-5 (2-6')	Total/NA	Solid	1633 Shake	
480-225073-6	BH-9 (4-6')	Total/NA	Solid	1633 Shake	
MB 240-634107/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-634107/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-634107/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
480-225073-6 DU	BH-9 (4-6')	Total/NA	Solid	1633 Shake	

Analysis Batch: 634254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	Draft-3 1633	634107
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	Draft-3 1633	634107
480-225073-3	BH-3 (2-4')	Total/NA	Solid	Draft-3 1633	634107
480-225073-4	BH-8 (2-6')	Total/NA	Solid	Draft-3 1633	634107
480-225073-5	BH-5 (2-6')	Total/NA	Solid	Draft-3 1633	634107
480-225073-6	BH-9 (4-6')	Total/NA	Solid	Draft-3 1633	634107
MB 240-634107/1-A	Method Blank	Total/NA	Solid	Draft-3 1633	634107
LCS 240-634107/3-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	634107
LLCS 240-634107/2-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	634107
480-225073-6 DU	BH-9 (4-6')	Total/NA	Solid	Draft-3 1633	634107

Metals

Prep Batch: 731094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	3050B	
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	3050B	
480-225073-3	BH-3 (2-4')	Total/NA	Solid	3050B	
480-225073-4	BH-8 (2-6')	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 731094 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-5	BH-5 (2-6')	Total/NA	Solid	3050B	
480-225073-6	BH-9 (4-6')	Total/NA	Solid	3050B	
MB 480-731094/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-731094/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 731315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	7471B	
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	7471B	
480-225073-3	BH-3 (2-4')	Total/NA	Solid	7471B	
480-225073-4	BH-8 (2-6')	Total/NA	Solid	7471B	
480-225073-5	BH-5 (2-6')	Total/NA	Solid	7471B	
480-225073-6	BH-9 (4-6')	Total/NA	Solid	7471B	
MB 480-731315/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-731315/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-731315/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 731317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	6010C	731094
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	6010C	731094
480-225073-3	BH-3 (2-4')	Total/NA	Solid	6010C	731094
480-225073-4	BH-8 (2-6')	Total/NA	Solid	6010C	731094
480-225073-5	BH-5 (2-6')	Total/NA	Solid	6010C	731094
480-225073-6	BH-9 (4-6')	Total/NA	Solid	6010C	731094
MB 480-731094/1-A	Method Blank	Total/NA	Solid	6010C	731094

Analysis Batch: 731378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	7471B	731315
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	7471B	731315
480-225073-3	BH-3 (2-4')	Total/NA	Solid	7471B	731315
480-225073-4	BH-8 (2-6')	Total/NA	Solid	7471B	731315
480-225073-5	BH-5 (2-6')	Total/NA	Solid	7471B	731315
480-225073-6	BH-9 (4-6')	Total/NA	Solid	7471B	731315
MB 480-731315/1-A	Method Blank	Total/NA	Solid	7471B	731315
LCDSRM 480-731315/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	731315
LCSSRM 480-731315/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	731315

Analysis Batch: 731385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-3	BH-3 (2-4')	Total/NA	Solid	6010C	731094
480-225073-4	BH-8 (2-6')	Total/NA	Solid	6010C	731094
480-225073-5	BH-5 (2-6')	Total/NA	Solid	6010C	731094
480-225073-6	BH-9 (4-6')	Total/NA	Solid	6010C	731094
LCSSRM 480-731094/2-A	Lab Control Sample	Total/NA	Solid	6010C	731094

Analysis Batch: 731446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-4	BH-8 (2-6')	Total/NA	Solid	6010C	731094
480-225073-5	BH-5 (2-6')	Total/NA	Solid	6010C	731094

Metals (Continued)

Analysis Batch: 731446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-6	BH-9 (4-6')	Total/NA	Solid	6010C	731094

General Chemistry

Analysis Batch: 731100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	Moisture	
480-225073-2	BH-6 (7-8') NATIVE	Total/NA	Solid	Moisture	
480-225073-3	BH-3 (2-4')	Total/NA	Solid	Moisture	
480-225073-4	BH-8 (2-6')	Total/NA	Solid	Moisture	
480-225073-5	BH-5 (2-6')	Total/NA	Solid	Moisture	
480-225073-6	BH-9 (4-6')	Total/NA	Solid	Moisture	

Prep Batch: 731837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	9012B	
480-225073-3	BH-3 (2-4')	Total/NA	Solid	9012B	
480-225073-4	BH-8 (2-6')	Total/NA	Solid	9012B	
480-225073-5	BH-5 (2-6')	Total/NA	Solid	9012B	
480-225073-6	BH-9 (4-6')	Total/NA	Solid	9012B	
MB 480-731837/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-731837/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-731837/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-731837/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 732076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	9012B	731837
480-225073-3	BH-3 (2-4')	Total/NA	Solid	9012B	731837
480-225073-4	BH-8 (2-6')	Total/NA	Solid	9012B	731837
480-225073-5	BH-5 (2-6')	Total/NA	Solid	9012B	731837
480-225073-6	BH-9 (4-6')	Total/NA	Solid	9012B	731837
MB 480-731837/1-A	Method Blank	Total/NA	Solid	9012B	731837
LCS 480-731837/3-A	Lab Control Sample	Total/NA	Solid	9012B	731837
LCS 480-731837/4-A	Lab Control Sample	Total/NA	Solid	9012B	731837
LCSSRM 480-731837/2-A	Lab Control Sample	Total/NA	Solid	9012B	731837

Prep Batch: 1006681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	3060A	
480-225073-3	BH-3 (2-4')	Total/NA	Solid	3060A	
480-225073-4	BH-8 (2-6')	Total/NA	Solid	3060A	
480-225073-5	BH-5 (2-6')	Total/NA	Solid	3060A	
480-225073-6	BH-9 (4-6')	Total/NA	Solid	3060A	
MB 460-1006681/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-1006681/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-1006681/2-A	Lab Control Sample	Total/NA	Solid	3060A	
480-225073-4 MSI	BH-8 (2-6')	Total/NA	Solid	3060A	
480-225073-4 MSS	BH-8 (2-6')	Total/NA	Solid	3060A	
480-225073-4 DU	BH-8 (2-6')	Total/NA	Solid	3060A	

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225073-1
Project/Site: The Nest Site Analysis

General Chemistry

Analysis Batch: 1006717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225073-1	BH-6 (2-4')	Total/NA	Solid	7196A	1006681
480-225073-3	BH-3 (2-4')	Total/NA	Solid	7196A	1006681
480-225073-4	BH-8 (2-6')	Total/NA	Solid	7196A	1006681
480-225073-5	BH-5 (2-6')	Total/NA	Solid	7196A	1006681
480-225073-6	BH-9 (4-6')	Total/NA	Solid	7196A	1006681
MB 460-1006681/1-A	Method Blank	Total/NA	Solid	7196A	1006681
LCSI 460-1006681/3-A	Lab Control Sample	Total/NA	Solid	7196A	1006681
LCSSRM 460-1006681/2-A	Lab Control Sample	Total/NA	Solid	7196A	1006681
480-225073-4 MSI	BH-8 (2-6')	Total/NA	Solid	7196A	1006681
480-225073-4 MSS	BH-8 (2-6')	Total/NA	Solid	7196A	1006681
480-225073-4 DU	BH-8 (2-6')	Total/NA	Solid	7196A	1006681

Client Sample ID: BH-6 (2-4')
Lab Sample ID: 480-225073-1
Date Collected: 11/01/24 10:30
Matrix: Solid
Date Received: 11/01/24 17:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	731100	JLS	EET BUF	11/04/24 14:08

Client Sample ID: BH-6 (2-4')
Lab Sample ID: 480-225073-1
Date Collected: 11/01/24 10:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			731419	ZN	EET BUF	11/06/24 14:31
Total/NA	Analysis	8260C		1	731454	CDC	EET BUF	11/06/24 23:12
Total/NA	Prep	3550C			731285	SJM	EET BUF	11/05/24 17:56
Total/NA	Analysis	8270D		1	731322	JMM	EET BUF	11/06/24 16:20
Total/NA	Prep	3550C			731139	SJM	EET BUF	11/04/24 17:30
Total/NA	Analysis	8081B		5	731153	JLS	EET BUF	11/05/24 12:31
Total/NA	Prep	3550C			731142	SJM	EET BUF	11/04/24 17:38
Total/NA	Analysis	8082A		1	731306	H9RU	EET BUF	11/07/24 00:16
Total/NA	Prep	8151A			731515	DP	EET BUF	11/07/24 09:45
Total/NA	Analysis	8151A		1	732088	MAN	EET BUF	11/12/24 14:15
Total/NA	Prep	1633 Shake			634107	JVB4	EET CLE	11/06/24 08:26
Total/NA	Analysis	Draft-3 1633		1	634254	LD	EET CLE	11/06/24 19:18
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		1	731317	ESB	EET BUF	11/05/24 18:28
Total/NA	Prep	7471B			731315	ESB	EET BUF	11/06/24 09:00
Total/NA	Analysis	7471B		1	731378	ESB	EET BUF	11/06/24 11:18
Total/NA	Prep	3060A			1006681	MNP	EET EDI	11/13/24 09:45 - 11/13/24 10:45 [1]
Total/NA	Analysis	7196A		1	1006717	MNP	EET EDI	11/13/24 12:00
Total/NA	Prep	9012B			731837	AM	EET BUF	11/09/24 13:40
Total/NA	Analysis	9012B		1	732076	AM	EET BUF	11/09/24 18:09

Client Sample ID: BH-6 (7-8') NATIVE
Lab Sample ID: 480-225073-2
Date Collected: 11/01/24 10:45
Matrix: Solid
Date Received: 11/01/24 17:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	731100	JLS	EET BUF	11/04/24 14:08

Client Sample ID: BH-6 (7-8') NATIVE
Lab Sample ID: 480-225073-2
Date Collected: 11/01/24 10:45
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			731285	SJM	EET BUF	11/05/24 17:56
Total/NA	Analysis	8270D		1	731322	JMM	EET BUF	11/06/24 16:45
Total/NA	Prep	3550C			731139	SJM	EET BUF	11/04/24 17:30
Total/NA	Analysis	8081B		1	731153	JLS	EET BUF	11/05/24 12:51

Client Sample ID: BH-6 (7-8') NATIVE
Lab Sample ID: 480-225073-2
Date Collected: 11/01/24 10:45
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			731142	SJM	EET BUF	11/04/24 17:38
Total/NA	Analysis	8082A		1	731306	H9RU	EET BUF	11/07/24 00:34
Total/NA	Prep	8151A			731515	DP	EET BUF	11/07/24 09:45
Total/NA	Analysis	8151A		1	732088	MAN	EET BUF	11/12/24 14:33
Total/NA	Prep	1633 Shake			634107	JVB4	EET CLE	11/06/24 08:26
Total/NA	Analysis	Draft-3 1633		1	634254	LD	EET CLE	11/06/24 19:34
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		1	731317	ESB	EET BUF	11/05/24 18:30
Total/NA	Prep	7471B			731315	ESB	EET BUF	11/06/24 09:00
Total/NA	Analysis	7471B		1	731378	ESB	EET BUF	11/06/24 11:19

Client Sample ID: BH-3 (2-4')
Lab Sample ID: 480-225073-3
Date Collected: 11/01/24 11:30
Matrix: Solid
Date Received: 11/01/24 17:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	731100	JLS	EET BUF	11/04/24 14:08

Client Sample ID: BH-3 (2-4')
Lab Sample ID: 480-225073-3
Date Collected: 11/01/24 11:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			731419	ZN	EET BUF	11/06/24 14:31
Total/NA	Analysis	8260C		1	731454	CDC	EET BUF	11/06/24 23:39
Total/NA	Prep	3550C			731285	SJM	EET BUF	11/05/24 17:56
Total/NA	Analysis	8270D		10	731322	JMM	EET BUF	11/06/24 17:11
Total/NA	Prep	3550C			731139	SJM	EET BUF	11/04/24 17:30
Total/NA	Analysis	8081B		20	731153	JLS	EET BUF	11/05/24 13:11
Total/NA	Prep	3550C			731142	SJM	EET BUF	11/04/24 17:38
Total/NA	Analysis	8082A		1	731306	H9RU	EET BUF	11/07/24 00:53
Total/NA	Prep	8151A			731515	DP	EET BUF	11/07/24 09:45
Total/NA	Analysis	8151A		1	732088	MAN	EET BUF	11/12/24 14:52
Total/NA	Prep	1633 Shake			634107	JVB4	EET CLE	11/06/24 08:26
Total/NA	Analysis	Draft-3 1633		1	634254	LD	EET CLE	11/06/24 19:51
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		1	731317	ESB	EET BUF	11/05/24 18:32
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		10	731385	BMB	EET BUF	11/06/24 11:41
Total/NA	Prep	7471B			731315	ESB	EET BUF	11/06/24 09:00
Total/NA	Analysis	7471B		1	731378	ESB	EET BUF	11/06/24 11:23
Total/NA	Prep	3060A			1006681	MNP	EET EDI	11/13/24 09:45 - 11/13/24 10:45 [1]
Total/NA	Analysis	7196A		1	1006717	MNP	EET EDI	11/13/24 12:30
Total/NA	Prep	9012B			731837	AM	EET BUF	11/09/24 13:40
Total/NA	Analysis	9012B		1	732076	AM	EET BUF	11/09/24 18:09

Client Sample ID: BH-8 (2-6')
Lab Sample ID: 480-225073-4
Date Collected: 11/01/24 14:30
Matrix: Solid
Date Received: 11/01/24 17:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	731100	JLS	EET BUF	11/04/24 14:08

Client Sample ID: BH-8 (2-6')
Lab Sample ID: 480-225073-4
Date Collected: 11/01/24 14:30
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			731419	ZN	EET BUF	11/06/24 14:31
Total/NA	Analysis	8260C		1	731454	CDC	EET BUF	11/07/24 00:06
Total/NA	Prep	3550C			731285	SJM	EET BUF	11/05/24 17:56
Total/NA	Analysis	8270D		10	731322	JMM	EET BUF	11/06/24 17:36
Total/NA	Prep	3550C			731139	SJM	EET BUF	11/04/24 17:30
Total/NA	Analysis	8081B		20	731153	JLS	EET BUF	11/05/24 13:30
Total/NA	Prep	3550C			731142	SJM	EET BUF	11/04/24 17:38
Total/NA	Analysis	8082A		1	731306	H9RU	EET BUF	11/07/24 01:11
Total/NA	Prep	8151A			731515	DP	EET BUF	11/07/24 09:45
Total/NA	Analysis	8151A		1	732088	MAN	EET BUF	11/12/24 15:10
Total/NA	Prep	1633 Shake			634107	JVB4	EET CLE	11/06/24 08:26
Total/NA	Analysis	Draft-3 1633		1	634254	LD	EET CLE	11/06/24 20:08
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		1	731317	ESB	EET BUF	11/05/24 18:40
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		10	731385	BMB	EET BUF	11/06/24 11:43
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		1	731446	BMB	EET BUF	11/06/24 16:46
Total/NA	Prep	7471B			731315	ESB	EET BUF	11/06/24 09:00
Total/NA	Analysis	7471B		1	731378	ESB	EET BUF	11/06/24 11:24
Total/NA	Prep	3060A			1006681	MNP	EET EDI	11/13/24 09:45 - 11/13/24 10:45 [1]
Total/NA	Analysis	7196A		1	1006717	MNP	EET EDI	11/13/24 12:00
Total/NA	Prep	9012B			731837	AM	EET BUF	11/09/24 13:40
Total/NA	Analysis	9012B		1	732076	AM	EET BUF	11/09/24 18:12

Client Sample ID: BH-5 (2-6')
Lab Sample ID: 480-225073-5
Date Collected: 11/01/24 16:00
Matrix: Solid
Date Received: 11/01/24 17:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	731100	JLS	EET BUF	11/04/24 14:08

Client Sample ID: BH-5 (2-6')
Lab Sample ID: 480-225073-5

Date Collected: 11/01/24 16:00
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			731419	ZN	EET BUF	11/06/24 14:31
Total/NA	Analysis	8260C		1	731454	CDC	EET BUF	11/07/24 00:33
Total/NA	Prep	3550C			731285	SJM	EET BUF	11/05/24 17:56
Total/NA	Analysis	8270D		5	731322	JMM	EET BUF	11/06/24 18:01
Total/NA	Prep	3550C			731139	SJM	EET BUF	11/04/24 17:30
Total/NA	Analysis	8081B		10	731153	JLS	EET BUF	11/05/24 13:50
Total/NA	Prep	3550C			731142	SJM	EET BUF	11/04/24 17:38
Total/NA	Analysis	8082A		1	731306	H9RU	EET BUF	11/07/24 01:29
Total/NA	Prep	8151A			731515	DP	EET BUF	11/07/24 09:45
Total/NA	Analysis	8151A		1	732088	MAN	EET BUF	11/12/24 15:29
Total/NA	Prep	1633 Shake			634107	JVB4	EET CLE	11/06/24 08:26
Total/NA	Analysis	Draft-3 1633		1	634254	LD	EET CLE	11/06/24 20:24
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		1	731317	ESB	EET BUF	11/05/24 18:42
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		10	731385	BMB	EET BUF	11/06/24 11:45
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		1	731446	BMB	EET BUF	11/06/24 16:48
Total/NA	Prep	7471B			731315	ESB	EET BUF	11/06/24 09:00
Total/NA	Analysis	7471B		1	731378	ESB	EET BUF	11/06/24 11:26
Total/NA	Prep	3060A			1006681	MNP	EET EDI	11/13/24 09:45 - 11/13/24 10:45 [1]
Total/NA	Analysis	7196A		1	1006717	MNP	EET EDI	11/13/24 12:30
Total/NA	Prep	9012B			731837	AM	EET BUF	11/09/24 13:40
Total/NA	Analysis	9012B		1	732076	AM	EET BUF	11/09/24 18:13

Client Sample ID: BH-9 (4-6')
Lab Sample ID: 480-225073-6

Date Collected: 11/01/24 16:45
Matrix: Solid
Date Received: 11/01/24 17:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	731100	JLS	EET BUF	11/04/24 14:08

Client Sample ID: BH-9 (4-6')
Lab Sample ID: 480-225073-6

Date Collected: 11/01/24 16:45
Matrix: Solid
Date Received: 11/01/24 17:45
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			731419	ZN	EET BUF	11/06/24 14:31
Total/NA	Analysis	8260C		1	731454	CDC	EET BUF	11/06/24 22:45
Total/NA	Prep	3550C			731285	SJM	EET BUF	11/05/24 17:56
Total/NA	Analysis	8270D		1	731322	JMM	EET BUF	11/06/24 18:25
Total/NA	Prep	3550C			731139	SJM	EET BUF	11/04/24 17:30
Total/NA	Analysis	8081B		1	731153	JLS	EET BUF	11/05/24 14:10
Total/NA	Prep	3550C			731142	SJM	EET BUF	11/04/24 17:38
Total/NA	Analysis	8082A		1	731306	H9RU	EET BUF	11/07/24 01:47

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225073-1
Project/Site: The Nest Site Analysis

Client Sample ID: BH-9 (4-6')
Lab Sample ID: 480-225073-6

Date Collected: 11/01/24 16:45
Matrix: Solid

Date Received: 11/01/24 17:45
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8151A			731515	DP	EET BUF	11/07/24 09:45
Total/NA	Analysis	8151A		1	732088	MAN	EET BUF	11/12/24 15:47
Total/NA	Prep	1633 Shake			634107	JVB4	EET CLE	11/06/24 08:26
Total/NA	Analysis	Draft-3 1633		1	634254	LD	EET CLE	11/06/24 20:41
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		1	731317	ESB	EET BUF	11/05/24 18:44
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		10	731385	BMB	EET BUF	11/06/24 11:47
Total/NA	Prep	3050B			731094	EMO	EET BUF	11/04/24 15:50
Total/NA	Analysis	6010C		1	731446	BMB	EET BUF	11/06/24 16:50
Total/NA	Prep	7471B			731315	ESB	EET BUF	11/06/24 09:00
Total/NA	Analysis	7471B		1	731378	ESB	EET BUF	11/06/24 11:27
Total/NA	Prep	3060A			1006681	MNP	EET EDI	11/13/24 09:45 - 11/13/24 10:45 [1]
Total/NA	Analysis	7196A		1	1006717	MNP	EET EDI	11/13/24 12:30
Total/NA	Prep	9012B			731837	AM	EET BUF	11/09/24 13:40
Total/NA	Analysis	9012B		1	732076	AM	EET BUF	11/09/24 18:13

[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
EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225073-1
Project/Site: The Nest Site Analysis

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
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
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
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	12-31-24

Laboratory: Eurofins Edison

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-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	04-01-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-31-24
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225073-1
Project/Site: The Nest Site Analysis

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
Draft-3 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
7196A	Chromium, Hexavalent	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET EDI
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
9012B	Cyanide, Total and/or Amenable, Distillation	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

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225073-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-225073-1	BH-6 (2-4')	Solid	11/01/24 10:30	11/01/24 17:45
480-225073-2	BH-6 (7-8') NATIVE	Solid	11/01/24 10:45	11/01/24 17:45
480-225073-3	BH-3 (2-4')	Solid	11/01/24 11:30	11/01/24 17:45
480-225073-4	BH-8 (2-6')	Solid	11/01/24 14:30	11/01/24 17:45
480-225073-5	BH-5 (2-6')	Solid	11/01/24 16:00	11/01/24 17:45
480-225073-6	BH-9 (4-6')	Solid	11/01/24 16:45	11/01/24 17:45

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: Jacob COX
Company: Bridges Engineering - BE3
Address: 960 Busti Ave Suite B-150
City: Buffalo
State, Zip: NY, 14213
Phone: 716.249.6880
Email: JCOX@BE3corp.com
Site: The Nest

Sampler: Joseph Gambino
Phone: 716.249.6880
Due Date Requested:
TAT Requested (days): Standard 10-Day
PO #:
WO #:
SSOW#:

Lab PM: Beniati, John
E-Mail:
Carrier Tracking No(s):
State of Origin:
Accreditations Required (See note):

COC No:
Page:
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 - TCL VOCs + TICs	6010C, 7471B, 8081B	8082A, 8151A, 8270D	633-final, 1633 Standard List	7196A, 9012B	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH-6 (2-4')	11/1/24	10:30AM	G	S			X	X	X	X	X		Added Hex Chrom + Cyanide
BH-6 (7-8') Native	11/1/24	10:45AM	G	S				X	X	X			
BH-3 (2-4')	11/1/24	11:30AM	G	S			X	X	X	X	X		
BH-8 (2-6')	11/1/24	2:30PM	G	S			X	X	X	X	X		
BH-5 (2-6')	11/1/24	4:00PM	G	S			X	X	X	X	X		
BH-9 (4-6')	11/1/24	4:45PM	G	S			X	X	X	X	X		

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

480-225073 Chain of Custody

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
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:
Date:
Time:
Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Joseph Gambino	11/1/24 @5:45PM	BE3	SM	11/1/24 1745	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: 8.9 IR#5C IC=

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

1/9/26

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90201 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-225073-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/14/2024			
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: The Nest Site Analysis	Project #: 48028073			
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:						
BH-6 (2-4') (480-225073-1)	11/1/24	10:30 Eastern	G	Solid			X	1	
BH-6 (7-8') NATIVE (480-225073-2)	11/1/24	10:45 Eastern	G	Solid			X	1	
BH-3 (2-4') (480-225073-3)	11/1/24	11:30 Eastern	G	Solid			X	1	
BH-8 (2-6') (480-225073-4)	11/1/24	14:30 Eastern	G	Solid			X	1	
BH-5 (2-6') (480-225073-5)	11/1/24	16:00 Eastern	G	Solid			X	1	
BH-9 (4-6') (480-225073-6)	11/1/24	16:45 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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
VP	~~11-4-24~~ 1600			11/5/24 09:48	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 Eurofins Site Name

Cooler unpacked by:

Cooler Received on 11/5/24 Opened on 11/5/24

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 +0.7 °C) Observed Cooler Temp. 1.9 °C Corrected Cooler Temp. 2.6 °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# HC447997
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

FedEx
INS ENVIRONMENT TESTING
AZELWOOD DRIVE
UFFALO, NY 142282223
UNITED STATES US
ACTWGT 21.15 L
CAD 0759273/CAFE3855
DIMS 15x12x11 IN
BILL SENDER
Part # 159469-494 MTW EXP 06/25
TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE
BARBERTON OH 442033543
(330) 497-9396
REF. BARBERTON
FedEx Express
TUE - 05 NOV 10:30A
PRIORITY OVERNIGHT
TRK# 0201 7463 0660 6263
44203
OH-US CLE
NP CAKA

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

11/26

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90201 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-225073-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/14/2024			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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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:						
BH-6 (2-4') (480-225073-1)	11/1/24	10:30 Eastern	G	Solid			X	1	
BH-6 (7-8') NATIVE (480-225073-2)	11/1/24	10:45 Eastern	G	Solid			X	1	
BH-3 (2-4') (480-225073-3)	11/1/24	11:30 Eastern	G	Solid			X	1	
BH-8 (2-6') (480-225073-4)	11/1/24	14:30 Eastern	G	Solid			X	1	
BH-5 (2-6') (480-225073-5)	11/1/24	16:00 Eastern	G	Solid			X	1	
BH-9 (4-6') (480-225073-6)	11/1/24	16:45 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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[illegible]	~~11-4-24~~ 11-4-24		[signature]	11/5/24 0940	EC
Relinquished by:	Date/Time: 1600	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 Site Name

Cooler unpacked by:

Cooler Received on 11/5/24 Opened on 11/5/24

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 +0.7 °C) Observed Cooler Temp. 1.9 °C Corrected Cooler Temp 2.6 °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# HC447997
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.

FedEx

FROM
INS ENVIRONMENT TESTING
HAZELWOOD DRIVE
BUFFALO, NY 142282223
UNITED STATES US

ACTWGT 21.15 LB
CAD 0759273/CAFE3855
DIMS 15x12x11 IN

BILL SENDER

Part # 159469-434 MTN EXP 06/25

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF. BARBERTON

FedEx Express

TRK# 0201 7463 0660 6263

TUE - 05 NOV 10:30A
PRIORITY OVERNIGHT

NP CAKA

44203
OH-US CLE

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90205.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-225073-1
Address: 777 New Durham Road,	Due Date Requested: 11/14/2024			Preservation Codes:
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis	Project #: 48028073			
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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH-6 (2-4') (480-225073-1)	11/1/24	10:30 Eastern	G	Solid			X	1	
BH-3 (2-4') (480-225073-3)	11/1/24	11:30 Eastern	G	Solid			X	1	
BH-8 (2-6') (480-225073-4)	11/1/24	14:30 Eastern	G	Solid			X	1	
BH-5 (2-6') (480-225073-5)	11/1/24	16:00 Eastern	G	Solid			X	1	
BH-9 (4-6') (480-225073-6)	11/1/24	16:45 Eastern	G	Solid			X	1	

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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
1	VP	11-4-24 1600		via Fedex	11/5/24 1045	Eurofins
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 1.4/1.6°C IR9

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-225073-1

Login Number: 225073
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	Yes: Received same day of collection; chilling process has begun
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	be3
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-225073-1

Login Number: 225073
List Number: 3
Creator: Foltyn, Tristan

List Source: Eurofins Cleveland
List Creation: 11/05/24 12:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-225073-1

Login Number: 225073
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins Edison
List Creation: 11/05/24 12:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4/1.6°C IR9
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213
Generated 11/25/2024 5:18:16 PM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-225489-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

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
11/25/2024 5:18:16 PM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
(716)504-9874

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225489-1
Project/Site: The Nest Site Analysis

Qualifiers

GC/MS 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.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

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.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) 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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 480-225489-1 Eurofins Buffalo

Job Narrative
480-225489-1

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 11/13/2024 3:34 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 12.4°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-732825 recovered above the upper control limit for Cyclohexane. The sample(s) associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TANK LOCATION (480-225489-1).

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

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

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 continuing calibration verification (CCV) associated with batch 480-732722 recovered above the upper control limit for Endosulfan sulfate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TANK LOCATION (480-225489-1).

Method 8081B: The method blank for preparation batch 480-732687 and analytical batch 480-732722 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. The following associated sample is impacted: TANK LOCATION (480-225489-1).

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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225489-1
Project/Site: The Nest Site Analysis

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.4	J vs	28	4.8	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.65	J B vs	5.7	0.35	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	3.8	J vs	5.7	0.76	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]pyrene	45	J	200	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	56	J	200	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	41	J	200	21	ug/Kg	1	☼	8270D	Total/NA
Hexachlorobutadiene	47	J	200	29	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	58	J	200	24	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDT	1.2	J B	1.9	0.45	ug/Kg	1	☼	8081B	Total/NA
Aluminum	7580		11.9	10.3	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.1	J	2.4	1.0	mg/Kg	1	☼	6010C	Total/NA
Barium	25.0		0.59	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.35		0.24	0.048	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.3	B	0.24	0.083	mg/Kg	1	☼	6010C	Total/NA
Calcium	104000		297	161	mg/Kg	5	☼	6010C	Total/NA
Chromium	8.5		0.59	0.43	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.7		0.59	0.12	mg/Kg	1	☼	6010C	Total/NA
Copper	9.5		1.2	0.68	mg/Kg	1	☼	6010C	Total/NA
Iron	9980		11.9	10.1	mg/Kg	1	☼	6010C	Total/NA
Lead	29.1		1.2	0.55	mg/Kg	1	☼	6010C	Total/NA
Magnesium	62900		119	50.5	mg/Kg	5	☼	6010C	Total/NA
Manganese	434		1.2	0.33	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.8		5.9	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	2110		35.7	28.8	mg/Kg	1	☼	6010C	Total/NA
Sodium	164	J	167	73.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	13.7		0.59	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	521		2.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.024		0.024	0.0055	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1
Date Collected: 11/13/24 14:30
Matrix: Solid
Date Received: 11/13/24 15:34
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.7	U vs	5.7	0.41	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,1,2,2-Tetrachloroethane	5.7	U vs	5.7	0.92	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,1,2-Trichloroethane	5.7	U vs	5.7	0.74	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U vs	5.7	1.3	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,1-Dichloroethane	5.7	U vs	5.7	0.69	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,1-Dichloroethene	5.7	U vs	5.7	0.70	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,2,4-Trichlorobenzene	5.7	U vs	5.7	0.35	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,2-Dibromo-3-Chloropropane	5.7	U vs	5.7	2.8	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,2-Dichlorobenzene	5.7	U vs	5.7	0.44	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,2-Dichloroethane	5.7	U vs	5.7	0.29	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,2-Dichloropropane	5.7	U vs	5.7	2.8	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,3-Dichlorobenzene	5.7	U vs	5.7	0.29	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,4-Dichlorobenzene	5.7	U vs	5.7	0.80	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
2-Butanone (MEK)	28	U vs	28	2.1	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
2-Hexanone	28	U vs	28	2.8	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
4-Methyl-2-pentanone (MIBK)	28	U vs	28	1.9	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Acetone	**8.4**	**J vs**	28	4.8	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Benzene	5.7	U vs	5.7	0.28	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Bromodichloromethane	5.7	U vs	5.7	0.76	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Bromoform	5.7	U vs	5.7	2.8	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Bromomethane	5.7	U vs	5.7	0.51	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Carbon disulfide	5.7	U vs	5.7	2.8	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Carbon tetrachloride	5.7	U vs	5.7	0.55	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Chlorobenzene	5.7	U vs	5.7	0.75	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Dibromochloromethane	5.7	U vs	5.7	0.73	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Chloroethane	5.7	U vs	5.7	1.3	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Chloroform	**0.65**	**J B vs**	5.7	0.35	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Chloromethane	5.7	U vs	5.7	0.34	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
cis-1,2-Dichloroethene	5.7	U vs	5.7	0.73	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
cis-1,3-Dichloropropene	5.7	U vs	5.7	0.82	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Cyclohexane	5.7	U vs	5.7	0.80	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Dichlorodifluoromethane	5.7	U vs	5.7	0.47	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Ethylbenzene	5.7	U vs	5.7	0.39	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
1,2-Dibromoethane	5.7	U vs	5.7	0.73	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Isopropylbenzene	5.7	U vs	5.7	0.86	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Methyl acetate	28	U vs	28	3.4	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Methyl tert-butyl ether	5.7	U vs	5.7	0.56	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Methylcyclohexane	5.7	U vs	5.7	0.86	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Methylene Chloride	5.7	U vs	5.7	2.6	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Styrene	5.7	U vs	5.7	0.28	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Tetrachloroethene	**3.8**	**J vs**	5.7	0.76	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Toluene	5.7	U vs	5.7	0.43	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
trans-1,2-Dichloroethene	5.7	U vs	5.7	0.59	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
trans-1,3-Dichloropropene	5.7	U vs	5.7	2.5	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Trichloroethene	5.7	U vs	5.7	1.2	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Trichlorofluoromethane	5.7	U vs	5.7	0.54	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Vinyl chloride	5.7	U vs	5.7	0.69	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1
Xylenes, Total	11	U vs	11	0.95	ug/Kg	☼	11/18/24 18:11	11/19/24 03:59	1

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1

Date Collected: 11/13/24 14:30
Matrix: Solid

Date Received: 11/13/24 15:34
Percent Solids: 85.0

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	11/18/24 18:11	11/19/24 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	86		71 - 125	11/18/24 18:11	11/19/24 03:59	1
1,2-Dichloroethane-d4 (Surr)	94		64 - 126	11/18/24 18:11	11/19/24 03:59	1
4-Bromofluorobenzene (Surr)	85		72 - 126	11/18/24 18:11	11/19/24 03:59	1
Dibromofluoromethane (Surr)	95		60 - 140	11/18/24 18:11	11/19/24 03:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	120	U	120	63	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2,4,5-Trichlorophenol	200	U	200	53	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2,4,6-Trichlorophenol	200	U	200	39	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2,4-Dichlorophenol	200	U	200	21	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2,4-Dimethylphenol	200	U	200	47	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2,4-Dinitrophenol	1900	U	1900	900	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2,4-Dinitrotoluene	200	U	200	40	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2,6-Dinitrotoluene	200	U	200	23	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2-Chloronaphthalene	200	U	200	32	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2-Chlorophenol	380	U	380	36	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2-Methylnaphthalene	200	U	200	39	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2-Methylphenol	200	U	200	23	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2-Nitroaniline	380	U	380	29	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
2-Nitrophenol	200	U	200	55	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
3,3'-Dichlorobenzidine	380	U	380	230	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
3-Nitroaniline	380	U	380	54	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
4,6-Dinitro-2-methylphenol	380	U	380	200	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
4-Bromophenyl phenyl ether	200	U	200	28	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
4-Chloro-3-methylphenol	200	U	200	48	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
4-Chloroaniline	200	U	200	48	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
4-Chlorophenyl phenyl ether	200	U	200	24	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
4-Methylphenol	380	U	380	23	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
4-Nitroaniline	380	U	380	100	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
4-Nitrophenol	380	U	380	140	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Acenaphthene	200	U	200	29	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Acenaphthylene	200	U	200	25	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Acetophenone	200	U	200	27	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Anthracene	200	U	200	48	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Atrazine	200	U	200	68	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Benzaldehyde	200	U	200	160	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Benzo[a]anthracene	200	U	200	20	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Benzo[a]pyrene	**45**	**J**	200	29	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Benzo[b]fluoranthene	**56**	**J**	200	31	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Benzo[g,h,i]perylene	**41**	**J**	200	21	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Benzo[k]fluoranthene	200	U	200	25	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Biphenyl	200	U	200	29	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
bis (2-chloroisopropyl) ether	200	U	200	39	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Bis(2-chloroethoxy)methane	200	U	200	42	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Bis(2-chloroethyl)ether	200	U	200	25	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Bis(2-ethylhexyl) phthalate	200	U	200	67	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1
Date Collected: 11/13/24 14:30
Matrix: Solid
Date Received: 11/13/24 15:34
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	200	U	200	32	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Caprolactam	200	U	200	59	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Carbazole	200	U	200	23	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Chrysene	200	U	200	44	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Dibenz(a,h)anthracene	200	U	200	35	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Dibenzofuran	200	U	200	23	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Diethyl phthalate	200	U	200	25	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Dimethyl phthalate	200	U	200	23	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Di-n-butyl phthalate	200	U	200	33	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Di-n-octyl phthalate	200	U	200	23	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Fluoranthene	200	U	200	21	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Fluorene	200	U	200	23	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Hexachlorobenzene	200	U	200	27	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Hexachlorobutadiene	**47**	**J**	200	29	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Hexachlorocyclopentadiene	200	U	200	27	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Hexachloroethane	200	U	200	25	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Indeno[1,2,3-cd]pyrene	**58**	**J**	200	24	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Isophorone	200	U	200	42	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Naphthalene	200	U	200	25	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Nitrobenzene	200	U	200	22	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
N-Nitrosodi-n-propylamine	200	U	200	33	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
N-Nitrosodiphenylamine	200	U	200	160	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Pentachlorophenol	380	U	380	200	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Phenanthrene	200	U	200	29	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Phenol	200	U	200	30	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1
Pyrene	200	U	200	23	ug/Kg	☼	11/15/24 06:44	11/18/24 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*26 - 143*	*11/15/24 06:44*	*11/18/24 22:14*	*1*
2-Fluorobiphenyl (Surr)	*99*		*50 - 121*	*11/15/24 06:44*	*11/18/24 22:14*	*1*
2-Fluorophenol (Surr)	*81*		*36 - 120*	*11/15/24 06:44*	*11/18/24 22:14*	*1*
Nitrobenzene-d5 (Surr)	*85*		*40 - 121*	*11/15/24 06:44*	*11/18/24 22:14*	*1*
Phenol-d5 (Surr)	*89*		*41 - 120*	*11/15/24 06:44*	*11/18/24 22:14*	*1*
p-Terphenyl-d14 (Surr)	*97*		*46 - 143*	*11/15/24 06:44*	*11/18/24 22:14*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.9	U	1.9	0.37	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
4,4'-DDE	1.9	U	1.9	0.40	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
4,4'-DDT	**1.2**	**J B**	1.9	0.45	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
Aldrin	1.9	U	1.9	0.47	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
alpha-BHC	1.9	U	1.9	0.34	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
beta-BHC	1.9	U	1.9	0.34	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
Chlordane (.alpha.)	1.9	U	1.9	0.95	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
delta-BHC	1.9	U	1.9	0.36	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
Dieldrin	1.9	U	1.9	0.46	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
Endosulfan I	1.9	U	1.9	0.37	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
Endosulfan II	1.9	U	1.9	0.34	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
Endosulfan sulfate	1.9	U	1.9	0.36	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
Endrin	1.9	U	1.9	0.38	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1
Date Collected: 11/13/24 14:30
Matrix: Solid
Date Received: 11/13/24 15:34
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	1.9	U	1.9	0.41	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1
Lindane	1.9	U	1.9	0.35	ug/Kg	☼	11/17/24 06:39	11/18/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*55*		*45 - 120*	*11/17/24 06:39*	*11/18/24 14:29*	*1*
DCB Decachlorobiphenyl	*77*		*45 - 120*	*11/17/24 06:39*	*11/18/24 14:29*	*1*
Tetrachloro-m-xylene	*71*		*30 - 124*	*11/17/24 06:39*	*11/18/24 14:29*	*1*
Tetrachloro-m-xylene	*78*		*30 - 124*	*11/17/24 06:39*	*11/18/24 14:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.23	U	0.23	0.045	mg/Kg	☼	11/15/24 06:47	11/16/24 08:18	1
PCB-1221	0.23	U	0.23	0.045	mg/Kg	☼	11/15/24 06:47	11/16/24 08:18	1
PCB-1232	0.23	U	0.23	0.045	mg/Kg	☼	11/15/24 06:47	11/16/24 08:18	1
PCB-1242	0.23	U	0.23	0.045	mg/Kg	☼	11/15/24 06:47	11/16/24 08:18	1
PCB-1248	0.23	U	0.23	0.045	mg/Kg	☼	11/15/24 06:47	11/16/24 08:18	1
PCB-1254	0.23	U	0.23	0.11	mg/Kg	☼	11/15/24 06:47	11/16/24 08:18	1
PCB-1260	0.23	U	0.23	0.11	mg/Kg	☼	11/15/24 06:47	11/16/24 08:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*60 - 154*	*11/15/24 06:47*	*11/16/24 08:18*	*1*
Tetrachloro-m-xylene	*98*		*60 - 154*	*11/15/24 06:47*	*11/16/24 08:18*	*1*
DCB Decachlorobiphenyl	*102*		*65 - 174*	*11/15/24 06:47*	*11/16/24 08:18*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*11/15/24 06:47*	*11/16/24 08:18*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	19	U	19	6.9	ug/Kg	☼	11/17/24 06:44	11/19/24 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*11/17/24 06:44*	*11/19/24 19:28*	*1*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*	*11/17/24 06:44*	*11/19/24 19:28*	*1*

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.75	U	0.75	0.19	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.094	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1
Date Collected: 11/13/24 14:30
Matrix: Solid
Date Received: 11/13/24 15:34
Percent Solids: 85.0

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.75	U	0.75	0.19	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.75	U	0.75	0.19	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.75	U	0.75	0.19	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.47	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.47	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.75	U	0.75	0.19	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.75	U	0.75	0.19	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.094	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.094	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.75	U	0.75	0.19	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.75	U	0.75	0.19	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U	0.38	0.094	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.94	U	0.94	0.24	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.7	U	4.7	1.2	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.7	U	4.7	1.2	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.047	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.094	ug/Kg	☼	11/18/24 09:10	11/19/24 18:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85.0*		*20 - 150*	*11/18/24 09:10*	*11/19/24 18:37*	*1*
13C5 PFPeA	*88.9*		*20 - 150*	*11/18/24 09:10*	*11/19/24 18:37*	*1*
13C5 PFHxA	*87.5*		*20 - 150*	*11/18/24 09:10*	*11/19/24 18:37*	*1*
13C4 PFHpA	*84.6*		*20 - 150*	*11/18/24 09:10*	*11/19/24 18:37*	*1*
13C8 PFOA	*95.5*		*20 - 150*	*11/18/24 09:10*	*11/19/24 18:37*	*1*
13C9 PFNA	*95.0*		*20 - 150*	*11/18/24 09:10*	*11/19/24 18:37*	*1*

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1

Date Collected: 11/13/24 14:30
Matrix: Solid

Date Received: 11/13/24 15:34
Percent Solids: 85.0

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	90.1		20 - 150	11/18/24 09:10	11/19/24 18:37	1
13C7 PFUnA	86.8		20 - 150	11/18/24 09:10	11/19/24 18:37	1
13C2 PFTeDA	81.6		20 - 150	11/18/24 09:10	11/19/24 18:37	1
13C3 PFBS	96.6		20 - 150	11/18/24 09:10	11/19/24 18:37	1
13C3 PFHxS	92.8		20 - 150	11/18/24 09:10	11/19/24 18:37	1
13C8 PFOS	93.7		20 - 150	11/18/24 09:10	11/19/24 18:37	1
13C8 PFOSA	85.9		20 - 150	11/18/24 09:10	11/19/24 18:37	1
d3-NMeFOSAA	108		20 - 150	11/18/24 09:10	11/19/24 18:37	1
d5-NEtFOSAA	109		20 - 150	11/18/24 09:10	11/19/24 18:37	1
M2-4:2 FTS	110		20 - 150	11/18/24 09:10	11/19/24 18:37	1
M2-6:2 FTS	113		20 - 150	11/18/24 09:10	11/19/24 18:37	1
M2-8:2 FTS	110		20 - 150	11/18/24 09:10	11/19/24 18:37	1
13C3 HFPO-DA	87.6		20 - 150	11/18/24 09:10	11/19/24 18:37	1
d7-N-MeFOSE-M	96.9		20 - 150	11/18/24 09:10	11/19/24 18:37	1
d9-N-EtFOSE-M	104		20 - 150	11/18/24 09:10	11/19/24 18:37	1
d5-NEtPFOSA	76.1		20 - 150	11/18/24 09:10	11/19/24 18:37	1
D3-NMeFOSA	68.3		20 - 150	11/18/24 09:10	11/19/24 18:37	1
13C2-PFDoDA	83.0		20 - 150	11/18/24 09:10	11/19/24 18:37	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7580**		11.9	10.3	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Antimony	17.8	U	17.8	0.63	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Arsenic	**2.1**	**J**	2.4	1.0	mg/Kg	☼	11/15/24 15:29	11/19/24 13:24	1
Barium	**25.0**		0.59	0.17	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Beryllium	**0.35**		0.24	0.048	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Cadmium	**1.3**	**B**	0.24	0.083	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Calcium	**104000**		297	161	mg/Kg	☼	11/15/24 15:29	11/19/24 13:26	5
Chromium	**8.5**		0.59	0.43	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Cobalt	**4.7**		0.59	0.12	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Copper	**9.5**		1.2	0.68	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Iron	**9980**		11.9	10.1	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Lead	**29.1**		1.2	0.55	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Magnesium	**62900**		119	50.5	mg/Kg	☼	11/15/24 15:29	11/19/24 13:26	5
Manganese	**434**		1.2	0.33	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Nickel	**9.8**		5.9	0.30	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Potassium	**2110**		35.7	28.8	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Selenium	4.8	U	4.8	0.95	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Silver	0.71	U	0.71	0.24	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Sodium	**164**	**J**	167	73.0	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Thallium	7.1	U	7.1	0.90	mg/Kg	☼	11/15/24 15:29	11/19/24 13:24	1
Vanadium	**13.7**		0.59	0.15	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1
Zinc	**521**		2.4	1.2	mg/Kg	☼	11/15/24 15:29	11/18/24 14:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.024	0.0055	mg/Kg	☼	11/15/24 09:51	11/15/24 12:55	1

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1

Date Collected: 11/13/24 14:30
Matrix: Solid
Date Received: 11/13/24 15:34
Percent Solids: 85.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.3	U	2.3	0.97	mg/Kg	☼	11/22/24 09:45	11/25/24 10:00	1
Cyanide, Total (SW846 9012B)	1.0	U	1.0	0.50	mg/Kg	☼	11/20/24 14:15	11/21/24 13:23	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225489-1
Project/Site: The Nest Site Analysis

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-225489-1	TANK LOCATION	86	94	85	95
LCS 480-732824/1-A	Lab Control Sample	88	89	89	92
MB 480-732824/2-A	Method Blank	88	91	86	93

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (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	PHL	TPHd14
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(41-120)	(46-143)
480-225489-1	TANK LOCATION	101	99	81	85	89	97
LCS 480-732500/2-A	Lab Control Sample	112	93	81	86	87	101
MB 480-732500/1-A	Method Blank	84	81	72	75	76	81

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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)
480-225489-1	TANK LOCATION	55	77	71	78
LCS 480-732687/2-A	Lab Control Sample	50	84	65	74
MB 480-732687/1-A	Method Blank	54	81	62	73

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)
480-225489-1	TANK LOCATION	93	98	102	108
LCS 480-732501/2-A	Lab Control Sample	119	118	126	135
MB 480-732501/1-A	Method Blank	97	106	110	116

Surrogate Legend

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225489-1
Project/Site: The Nest Site Analysis

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)
480-225489-1	TANK LOCATION	74	77
LCS 480-732688/2-A	Lab Control Sample	70	77
MB 480-732688/1-A	Method Blank	81	85

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225489-1
Project/Site: The Nest Site Analysis

Method: Draft-3 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)
480-225489-1	TANK LOCATION	85.0	88.9	87.5	84.6	95.5	95.0	90.1	86.8
LCS 240-635657/3-A	Lab Control Sample	85.3	84.9	86.8	86.4	92.4	97.0	90.3	90.9
LLCS 240-635657/2-A	Lab Control Sample	83.2	89.8	89.7	87.2	95.1	94.6	89.5	86.9
MB 240-635657/1-A	Method Blank	86.7	88.2	88.5	90.3	97.8	96.9	87.6	88.4

		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)
480-225489-1	TANK LOCATION	81.6	96.6	92.8	93.7	85.9	108	109	110
LCS 240-635657/3-A	Lab Control Sample	88.6	96.4	93.5	92.7	89.7	104	109	104
LLCS 240-635657/2-A	Lab Control Sample	82.9	91.1	90.8	91.4	87.3	104	107	107
MB 240-635657/1-A	Method Blank	80.3	98.5	94.9	94.0	90.1	106	112	111

		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)
480-225489-1	TANK LOCATION	113	110	87.6	96.9	104	76.1	68.3	83.0
LCS 240-635657/3-A	Lab Control Sample	111	114	84.1	100	102	77.4	69.4	87.9
LLCS 240-635657/2-A	Lab Control Sample	109	108	87.7	92.7	97.1	70.0	62.3	84.4
MB 240-635657/1-A	Method Blank	114	109	86.0	98.9	101	74.3	67.5	84.6

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

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

Lab Sample ID: MB 480-732824/2-A
Matrix: Solid
Analysis Batch: 732825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732824

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
2-Hexanone	25	U	25	2.5	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Acetone	25	U	25	4.2	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Benzene	5.0	U	5.0	0.25	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Chloroform	0.559	J	5.0	0.31	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Chloromethane	5.0	U	5.0	0.30	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Methyl acetate	25	U	25	3.0	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Styrene	5.0	U	5.0	0.25	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Toluene	5.0	U	5.0	0.38	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		11/18/24 18:11	11/18/24 21:37	1
Xylenes, Total	10	U	10	0.84	ug/Kg		11/18/24 18:11	11/18/24 21:37	1

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

Lab Sample ID: MB 480-732824/2-A
Matrix: Solid
Analysis Batch: 732825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732824

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	11/18/24 18:11	11/18/24 21:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		71 - 125	11/18/24 18:11	11/18/24 21:37	1
1,2-Dichloroethane-d4 (Surr)	91		64 - 126	11/18/24 18:11	11/18/24 21:37	1
4-Bromofluorobenzene (Surr)	86		72 - 126	11/18/24 18:11	11/18/24 21:37	1
Dibromofluoromethane (Surr)	93		60 - 140	11/18/24 18:11	11/18/24 21:37	1

Lab Sample ID: LCS 480-732824/1-A
Matrix: Solid
Analysis Batch: 732825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732824

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	49.7		ug/Kg		99	80 - 120
1,1,2-Trichloroethane	50.0	46.8		ug/Kg		94	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.4		ug/Kg		89	60 - 140
1,1-Dichloroethane	50.0	48.3		ug/Kg		97	73 - 126
1,1-Dichloroethene	50.0	46.5		ug/Kg		93	59 - 125
1,2,4-Trichlorobenzene	50.0	40.8		ug/Kg		82	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	45.0		ug/Kg		90	63 - 124
1,2-Dichlorobenzene	50.0	44.2		ug/Kg		88	75 - 120
1,2-Dichloroethane	50.0	46.8		ug/Kg		94	77 - 122
1,2-Dichloropropane	50.0	49.0		ug/Kg		98	75 - 124
1,3-Dichlorobenzene	50.0	44.5		ug/Kg		89	74 - 120
1,4-Dichlorobenzene	50.0	43.7		ug/Kg		87	73 - 120
2-Butanone (MEK)	250	271		ug/Kg		108	70 - 134
2-Hexanone	250	274		ug/Kg		110	59 - 130
4-Methyl-2-pentanone (MIBK)	250	271		ug/Kg		108	65 - 133
Acetone	250	257		ug/Kg		103	61 - 137
Benzene	50.0	46.7		ug/Kg		93	79 - 127
Bromodichloromethane	50.0	44.6		ug/Kg		89	80 - 122
Bromoform	50.0	43.3		ug/Kg		87	68 - 126
Bromomethane	50.0	41.4		ug/Kg		83	37 - 149
Carbon disulfide	50.0	44.4		ug/Kg		89	64 - 131
Carbon tetrachloride	50.0	42.4		ug/Kg		85	75 - 135
Chlorobenzene	50.0	44.6		ug/Kg		89	76 - 124
Dibromochloromethane	50.0	47.1		ug/Kg		94	76 - 125
Chloroethane	50.0	49.1		ug/Kg		98	69 - 135
Chloroform	50.0	44.0		ug/Kg		88	80 - 120
Chloromethane	50.0	47.7		ug/Kg		95	63 - 127
cis-1,2-Dichloroethene	50.0	45.5		ug/Kg		91	81 - 120
cis-1,3-Dichloropropene	50.0	45.8		ug/Kg		92	80 - 120
Cyclohexane	50.0	49.8		ug/Kg		100	65 - 120
Dichlorodifluoromethane	50.0	36.4		ug/Kg		73	57 - 142
Ethylbenzene	50.0	45.7		ug/Kg		91	80 - 120
1,2-Dibromoethane	50.0	45.3		ug/Kg		91	78 - 120

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

Lab Sample ID: LCS 480-732824/1-A
Matrix: Solid
Analysis Batch: 732825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	50.0	42.9		ug/Kg		86	72 - 120
Methyl acetate	100	106		ug/Kg		106	55 - 136
Methyl tert-butyl ether	50.0	44.3		ug/Kg		89	63 - 125
Methylcyclohexane	50.0	45.7		ug/Kg		91	60 - 140
Methylene Chloride	50.0	45.3		ug/Kg		91	61 - 127
Styrene	50.0	44.3		ug/Kg		89	80 - 120
Tetrachloroethene	50.0	42.9		ug/Kg		86	74 - 122
Toluene	50.0	46.1		ug/Kg		92	74 - 128
trans-1,2-Dichloroethene	50.0	45.5		ug/Kg		91	78 - 126
trans-1,3-Dichloropropene	50.0	44.5		ug/Kg		89	73 - 123
Trichloroethene	50.0	45.1		ug/Kg		90	77 - 129
Trichlorofluoromethane	50.0	42.5		ug/Kg		85	65 - 146
Vinyl chloride	50.0	45.3		ug/Kg		91	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*88*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*89*		*64 - 126*
4-Bromofluorobenzene (Surr)	*89*		*72 - 126*
Dibromofluoromethane (Surr)	*92*		*60 - 140*

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

Lab Sample ID: MB 480-732500/1-A
Matrix: Solid
Analysis Batch: 732742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	55	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2,4,5-Trichlorophenol	170	U	170	46	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2,4,6-Trichlorophenol	170	U	170	34	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2,4-Dichlorophenol	170	U	170	18	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2,4-Dimethylphenol	170	U	170	41	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2,4-Dinitrophenol	1700	U	1700	780	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2,4-Dinitrotoluene	170	U	170	35	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2,6-Dinitrotoluene	170	U	170	20	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2-Chloronaphthalene	170	U	170	28	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2-Chlorophenol	330	U	330	31	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2-Methylnaphthalene	170	U	170	34	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2-Methylphenol	170	U	170	20	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2-Nitroaniline	330	U	330	25	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
2-Nitrophenol	170	U	170	48	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
3,3'-Dichlorobenzidine	330	U	330	200	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
3-Nitroaniline	330	U	330	47	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
4,6-Dinitro-2-methylphenol	330	U	330	170	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
4-Bromophenyl phenyl ether	170	U	170	24	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
4-Chloro-3-methylphenol	170	U	170	42	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
4-Chloroaniline	170	U	170	42	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
4-Chlorophenyl phenyl ether	170	U	170	21	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
4-Methylphenol	330	U	330	20	ug/Kg		11/15/24 06:44	11/18/24 13:01	1

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

Lab Sample ID: MB 480-732500/1-A
Matrix: Solid
Analysis Batch: 732742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	330	U	330	89	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
4-Nitrophenol	330	U	330	120	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Acenaphthene	170	U	170	25	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Acenaphthylene	170	U	170	22	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Acetophenone	170	U	170	23	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Anthracene	170	U	170	42	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Atrazine	170	U	170	59	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Benzaldehyde	170	U	170	140	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Biphenyl	170	U	170	25	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
bis (2-chloroisopropyl) ether	170	U	170	34	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Bis(2-chloroethoxy)methane	170	U	170	36	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Bis(2-chloroethyl)ether	170	U	170	22	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Bis(2-ethylhexyl) phthalate	170	U	170	58	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Butyl benzyl phthalate	170	U	170	28	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Caprolactam	170	U	170	51	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Carbazole	170	U	170	20	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Chrysene	170	U	170	38	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Dibenzofuran	170	U	170	20	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Diethyl phthalate	170	U	170	22	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Dimethyl phthalate	170	U	170	20	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Di-n-butyl phthalate	170	U	170	29	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Di-n-octyl phthalate	170	U	170	20	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Fluoranthene	170	U	170	18	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Fluorene	170	U	170	20	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Hexachlorobenzene	170	U	170	23	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Hexachlorobutadiene	170	U	170	25	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Hexachlorocyclopentadiene	170	U	170	23	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Hexachloroethane	170	U	170	22	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Isophorone	170	U	170	36	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Naphthalene	170	U	170	22	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Nitrobenzene	170	U	170	19	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
N-Nitrosodi-n-propylamine	170	U	170	29	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
N-Nitrosodiphenylamine	170	U	170	140	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Pentachlorophenol	330	U	330	170	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Phenanthrene	170	U	170	25	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Phenol	170	U	170	26	ug/Kg		11/15/24 06:44	11/18/24 13:01	1
Pyrene	170	U	170	20	ug/Kg		11/15/24 06:44	11/18/24 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*26 - 143*	*11/15/24 06:44*	*11/18/24 13:01*	*1*
2-Fluorobiphenyl (Surr)	*81*		*50 - 121*	*11/15/24 06:44*	*11/18/24 13:01*	*1*

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

Lab Sample ID: MB 480-732500/1-A
Matrix: Solid
Analysis Batch: 732742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732500

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	*72*		*36 - 120*	*11/15/24 06:44*	*11/18/24 13:01*	*1*
Nitrobenzene-d5 (Surr)	*75*		*40 - 121*	*11/15/24 06:44*	*11/18/24 13:01*	*1*
Phenol-d5 (Surr)	*76*		*41 - 120*	*11/15/24 06:44*	*11/18/24 13:01*	*1*
p-Terphenyl-d14 (Surr)	*81*		*46 - 143*	*11/15/24 06:44*	*11/18/24 13:01*	*1*

Lab Sample ID: LCS 480-732500/2-A
Matrix: Solid
Analysis Batch: 732742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1330	678		ug/Kg		51	23 - 120
2,4,5-Trichlorophenol	1330	1310		ug/Kg		99	59 - 126
2,4,6-Trichlorophenol	1330	1350		ug/Kg		102	59 - 123
2,4-Dichlorophenol	1330	1280		ug/Kg		96	61 - 120
2,4-Dimethylphenol	1330	1280		ug/Kg		96	59 - 120
2,4-Dinitrophenol	2670	3260		ug/Kg		122	41 - 146
2,4-Dinitrotoluene	1330	1450		ug/Kg		108	63 - 120
2,6-Dinitrotoluene	1330	1440		ug/Kg		108	66 - 120
2-Chloronaphthalene	1330	1260		ug/Kg		95	57 - 120
2-Chlorophenol	1330	1170		ug/Kg		88	53 - 120
2-Methylnaphthalene	1330	1240		ug/Kg		93	59 - 120
2-Methylphenol	1330	1170		ug/Kg		88	54 - 120
2-Nitroaniline	1330	1300		ug/Kg		98	61 - 120
2-Nitrophenol	1330	1300		ug/Kg		97	56 - 120
3,3'-Dichlorobenzidine	1330	962		ug/Kg		72	54 - 120
3-Nitroaniline	1330	1070		ug/Kg		81	48 - 120
4,6-Dinitro-2-methylphenol	2670	3180		ug/Kg		119	49 - 122
4-Bromophenyl phenyl ether	1330	1380		ug/Kg		103	58 - 120
4-Chloro-3-methylphenol	1330	1330		ug/Kg		99	61 - 120
4-Chloroaniline	1330	1100		ug/Kg		83	38 - 120
4-Chlorophenyl phenyl ether	1330	1220		ug/Kg		91	63 - 124
4-Methylphenol	1330	1250		ug/Kg		94	55 - 120
4-Nitroaniline	1330	1180		ug/Kg		89	56 - 120
4-Nitrophenol	2670	2510		ug/Kg		94	43 - 147
Acenaphthene	1330	1290		ug/Kg		97	62 - 120
Acenaphthylene	1330	1340		ug/Kg		101	58 - 121
Acetophenone	1330	1180		ug/Kg		88	54 - 120
Anthracene	1330	1380		ug/Kg		104	62 - 120
Atrazine	1330	1200		ug/Kg		90	60 - 127
Benzaldehyde	1330	1250		ug/Kg		94	10 - 150
Benzo[a]anthracene	1330	1400		ug/Kg		105	65 - 120
Benzo[a]pyrene	1330	1430		ug/Kg		107	64 - 120
Benzo[b]fluoranthene	1330	1370		ug/Kg		103	64 - 120
Benzo[g,h,i]perylene	1330	1460		ug/Kg		110	45 - 145
Benzo[k]fluoranthene	1330	1480		ug/Kg		111	65 - 120
Biphenyl	1330	1290		ug/Kg		97	59 - 120
bis (2-chloroisopropyl) ether	1330	1090		ug/Kg		82	44 - 120
Bis(2-chloroethoxy)methane	1330	1240		ug/Kg		93	55 - 120

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

Lab Sample ID: LCS 480-732500/2-A
Matrix: Solid
Analysis Batch: 732742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	1330	1140		ug/Kg		85	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1500		ug/Kg		113	61 - 133
Butyl benzyl phthalate	1330	1480		ug/Kg		111	61 - 129
Caprolactam	1330	1320		ug/Kg		99	47 - 120
Carbazole	1330	1330		ug/Kg		100	65 - 120
Chrysene	1330	1350		ug/Kg		101	64 - 120
Dibenz(a,h)anthracene	1330	1430		ug/Kg		107	54 - 132
Dibenzofuran	1330	1330		ug/Kg		100	63 - 120
Diethyl phthalate	1330	1400		ug/Kg		105	66 - 120
Dimethyl phthalate	1330	1350		ug/Kg		101	65 - 124
Di-n-butyl phthalate	1330	1390		ug/Kg		104	58 - 130
Di-n-octyl phthalate	1330	1480		ug/Kg		111	57 - 133
Fluoranthene	1330	1340		ug/Kg		100	62 - 120
Fluorene	1330	1220		ug/Kg		92	63 - 120
Hexachlorobenzene	1330	1430		ug/Kg		107	60 - 120
Hexachlorobutadiene	1330	1180		ug/Kg		89	45 - 120
Hexachlorocyclopentadiene	1330	1290		ug/Kg		97	47 - 120
Hexachloroethane	1330	1070		ug/Kg		81	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1420		ug/Kg		106	56 - 134
Isophorone	1330	1280		ug/Kg		96	56 - 120
Naphthalene	1330	1170		ug/Kg		88	55 - 120
Nitrobenzene	1330	1180		ug/Kg		89	54 - 120
N-Nitrosodi-n-propylamine	1330	1220		ug/Kg		92	52 - 120
N-Nitrosodiphenylamine	1330	1400		ug/Kg		105	51 - 128
Pentachlorophenol	2670	3160		ug/Kg		119	10 - 120
Phenanthrene	1330	1360		ug/Kg		102	60 - 120
Phenol	1330	1160		ug/Kg		87	53 - 120
Pyrene	1330	1470		ug/Kg		110	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*112*		*26 - 143*
2-Fluorobiphenyl (Surr)	*93*		*50 - 121*
2-Fluorophenol (Surr)	*81*		*36 - 120*
Nitrobenzene-d5 (Surr)	*86*		*40 - 121*
Phenol-d5 (Surr)	*87*		*41 - 120*
p-Terphenyl-d14 (Surr)	*101*		*46 - 143*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-732687/1-A
Matrix: Solid
Analysis Batch: 732722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.7	U	1.7	0.32	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
4,4'-DDE	1.7	U	1.7	0.35	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
4,4'-DDT	1.10	J	1.7	0.39	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
Aldrin	1.7	U	1.7	0.41	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
alpha-BHC	1.7	U	1.7	0.30	ug/Kg		11/17/24 06:39	11/18/24 09:35	1

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

Lab Sample ID: MB 480-732687/1-A
Matrix: Solid
Analysis Batch: 732722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	1.7	U	1.7	0.30	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
Chlordane (.alpha.)	1.7	U	1.7	0.83	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
delta-BHC	1.7	U	1.7	0.31	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
Dieldrin	1.7	U	1.7	0.40	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
Endosulfan I	1.7	U	1.7	0.32	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
Endosulfan II	1.7	U	1.7	0.30	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
Endosulfan sulfate	1.7	U	1.7	0.31	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
Endrin	1.7	U	1.7	0.33	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
Heptachlor	1.7	U	1.7	0.36	ug/Kg		11/17/24 06:39	11/18/24 09:35	1
Lindane	1.7	U	1.7	0.31	ug/Kg		11/17/24 06:39	11/18/24 09:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*45 - 120*	*11/17/24 06:39*	*11/18/24 09:35*	*1*
DCB Decachlorobiphenyl	*81*		*45 - 120*	*11/17/24 06:39*	*11/18/24 09:35*	*1*
Tetrachloro-m-xylene	*62*		*30 - 124*	*11/17/24 06:39*	*11/18/24 09:35*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*11/17/24 06:39*	*11/18/24 09:35*	*1*

Lab Sample ID: LCS 480-732687/2-A
Matrix: Solid
Analysis Batch: 732722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	13.2		ug/Kg		79	56 - 120
4,4'-DDE	16.7	10.5		ug/Kg		63	44 - 120
4,4'-DDT	16.7	12.6		ug/Kg		76	38 - 120
Aldrin	16.7	11.0		ug/Kg		66	38 - 120
alpha-BHC	16.7	10.0		ug/Kg		60	39 - 120
beta-BHC	16.7	12.4		ug/Kg		74	40 - 120
Chlordane (.alpha.)	16.7	10.8		ug/Kg		65	47 - 120
delta-BHC	16.7	10.6		ug/Kg		63	45 - 120
Dieldrin	16.7	14.1		ug/Kg		85	58 - 120
Endosulfan I	16.7	12.7		ug/Kg		76	49 - 120
Endosulfan II	16.7	15.0		ug/Kg		90	55 - 120
Endosulfan sulfate	16.7	13.9		ug/Kg		84	49 - 124
Endrin	16.7	14.2		ug/Kg		85	58 - 120
Heptachlor	16.7	12.6		ug/Kg		76	50 - 120
Lindane	16.7	10.7		ug/Kg		64	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*45 - 120*
DCB Decachlorobiphenyl	*84*		*45 - 120*
Tetrachloro-m-xylene	*65*		*30 - 124*
Tetrachloro-m-xylene	*74*		*30 - 124*

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

Lab Sample ID: MB 480-732501/1-A
Matrix: Solid
Analysis Batch: 732517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.25	U	0.25	0.049	mg/Kg		11/15/24 06:47	11/16/24 04:00	1
PCB-1221	0.25	U	0.25	0.049	mg/Kg		11/15/24 06:47	11/16/24 04:00	1
PCB-1232	0.25	U	0.25	0.049	mg/Kg		11/15/24 06:47	11/16/24 04:00	1
PCB-1242	0.25	U	0.25	0.049	mg/Kg		11/15/24 06:47	11/16/24 04:00	1
PCB-1248	0.25	U	0.25	0.049	mg/Kg		11/15/24 06:47	11/16/24 04:00	1
PCB-1254	0.25	U	0.25	0.12	mg/Kg		11/15/24 06:47	11/16/24 04:00	1
PCB-1260	0.25	U	0.25	0.12	mg/Kg		11/15/24 06:47	11/16/24 04:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*60 - 154*	*11/15/24 06:47*	*11/16/24 04:00*	*1*
Tetrachloro-m-xylene	*106*		*60 - 154*	*11/15/24 06:47*	*11/16/24 04:00*	*1*
DCB Decachlorobiphenyl	*110*		*65 - 174*	*11/15/24 06:47*	*11/16/24 04:00*	*1*
DCB Decachlorobiphenyl	*116*		*65 - 174*	*11/15/24 06:47*	*11/16/24 04:00*	*1*

Lab Sample ID: LCS 480-732501/2-A
Matrix: Solid
Analysis Batch: 732517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732501

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	3.12		mg/Kg		125	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*119*		*60 - 154*
Tetrachloro-m-xylene	*118*		*60 - 154*
DCB Decachlorobiphenyl	*126*		*65 - 174*
DCB Decachlorobiphenyl	*135*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-732688/1-A
Matrix: Solid
Analysis Batch: 732926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	17	U	17	6.0	ug/Kg		11/17/24 06:44	11/19/24 14:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*81*		*28 - 129*	*11/17/24 06:44*	*11/19/24 14:34*	*1*
2,4-Dichlorophenylacetic acid	*85*		*28 - 129*	*11/17/24 06:44*	*11/19/24 14:34*	*1*

Lab Sample ID: LCS 480-732688/2-A
Matrix: Solid
Analysis Batch: 732926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732688

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)			66.7	51.2		ug/Kg		77	39 - 125		

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

Lab Sample ID: LCS 480-732688/2-A
Matrix: Solid
Analysis Batch: 732926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732688

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	70		28 - 129
2,4-Dichlorophenylacetic acid	77		28 - 129

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-635657/1-A
Matrix: Solid
Analysis Batch: 635892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.80	U	0.80	0.20	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.10	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	0.80	0.20	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.0	U	2.0	0.50	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0	U	2.0	0.50	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	0.80	0.20	ug/Kg		11/18/24 09:10	11/19/24 17:47	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-635657/1-A
Matrix: Solid
Analysis Batch: 635892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	0.80	0.20	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.10	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.10	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.80	U	0.80	0.20	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.80	U	0.80	0.20	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.10	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	1.0	0.25	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.0	U	5.0	1.3	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.050	ug/Kg		11/18/24 09:10	11/19/24 17:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.10	ug/Kg		11/18/24 09:10	11/19/24 17:47	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86.7*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C5 PFPeA	*88.2*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C5 PFHxA	*88.5*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C4 PFHpA	*90.3*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C8 PFOA	*97.8*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C9 PFNA	*96.9*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C6 PFDA	*87.6*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C7 PFUnA	*88.4*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C2 PFTeDA	*80.3*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C3 PFBS	*98.5*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C3 PFHxS	*94.9*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C8 PFOS	*94.0*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C8 PFOSA	*90.1*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
d3-NMeFOSAA	*106*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
d5-NEtFOSAA	*112*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
M2-4:2 FTS	*111*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
M2-6:2 FTS	*114*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
M2-8:2 FTS	*109*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C3 HFPO-DA	*86.0*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
d7-N-MeFOSE-M	*98.9*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
d9-N-EtFOSE-M	*101*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
d5-NEtPFOSA	*74.3*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
D3-NMeFOSA	*67.5*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*
13C2-PFDoDA	*84.6*		*20 - 150*	*11/18/24 09:10*	*11/19/24 17:47*	*1*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-635657/3-A
Matrix: Solid
Analysis Batch: 635892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	10.0	12.4		ug/Kg		124	40 - 150
Perfluoropentanoic acid (PFPeA)	5.00	5.66		ug/Kg		113	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.92		ug/Kg		117	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.79		ug/Kg		112	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.85		ug/Kg		114	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.88		ug/Kg		115	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	2.95		ug/Kg		118	40 - 150
Perfluoroundecanoic acid (PFUnA)	2.50	2.91		ug/Kg		116	40 - 150
Perfluorododecanoic acid (PFDoA)	2.50	2.86		ug/Kg		114	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.78		ug/Kg		111	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.69		ug/Kg		108	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.21	2.40		ug/Kg		109	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.78		ug/Kg		118	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.55		ug/Kg		112	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.38	2.86		ug/Kg		120	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.32	2.85		ug/Kg		123	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	2.68		ug/Kg		112	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	2.65		ug/Kg		110	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	10.6		ug/Kg		114	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	10.8		ug/Kg		114	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	10.9		ug/Kg		113	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.89		ug/Kg		116	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	3.01		ug/Kg		120	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.72		ug/Kg		109	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	3.04		ug/Kg		121	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	3.06		ug/Kg		123	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	26.9		ug/Kg		108	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	26.7		ug/Kg		107	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	12.2		ug/Kg		122	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	10.6		ug/Kg		113	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-635657/3-A
Matrix: Solid
Analysis Batch: 635892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635657

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoro-4-methoxybutanoic acid (PFMBA)			5.00	5.82		ug/Kg		116	40 - 150		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			5.00	5.20		ug/Kg		104	40 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			9.32	11.0		ug/Kg		118	40 - 150		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			9.42	10.4		ug/Kg		110	40 - 150		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			4.45	4.81		ug/Kg		108	40 - 150		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			12.5	14.1		ug/Kg		113	40 - 150		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			62.5	69.7		ug/Kg		112	40 - 150		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			62.5	67.6		ug/Kg		108	40 - 150		
Perfluorodecanesulfonic acid (PFDS)			2.41	2.78		ug/Kg		116	40 - 150		
Perfluoro-3-methoxypropanoic acid (PFMPA)			5.00	5.86		ug/Kg		117	40 - 150		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*85.3*		*20 - 150*
13C5 PFPeA	*84.9*		*20 - 150*
13C5 PFHxA	*86.8*		*20 - 150*
13C4 PFHpA	*86.4*		*20 - 150*
13C8 PFOA	*92.4*		*20 - 150*
13C9 PFNA	*97.0*		*20 - 150*
13C6 PFDA	*90.3*		*20 - 150*
13C7 PFUnA	*90.9*		*20 - 150*
13C2 PFTeDA	*88.6*		*20 - 150*
13C3 PFBS	*96.4*		*20 - 150*
13C3 PFHxS	*93.5*		*20 - 150*
13C8 PFOS	*92.7*		*20 - 150*
13C8 PFOSA	*89.7*		*20 - 150*
d3-NMeFOSAA	*104*		*20 - 150*
d5-NEtFOSAA	*109*		*20 - 150*
M2-4:2 FTS	*104*		*20 - 150*
M2-6:2 FTS	*111*		*20 - 150*
M2-8:2 FTS	*114*		*20 - 150*
13C3 HFPO-DA	*84.1*		*20 - 150*
d7-N-MeFOSE-M	*100*		*20 - 150*
d9-N-EtFOSE-M	*102*		*20 - 150*
d5-NEtPFOSA	*77.4*		*20 - 150*
D3-NMeFOSA	*69.4*		*20 - 150*
13C2-PFDoDA	*87.9*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-635657/2-A
Matrix: Solid
Analysis Batch: 635892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635657

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	1.03		ug/Kg		129	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.456		ug/Kg		114	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.234		ug/Kg		117	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.229		ug/Kg		114	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.243		ug/Kg		122	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.246		ug/Kg		123	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.239		ug/Kg		120	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.200	0.240		ug/Kg		120	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.240		ug/Kg		120	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.245		ug/Kg		123	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.225		ug/Kg		113	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.201		ug/Kg		114	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.220		ug/Kg		117	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.223		ug/Kg		123	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.231		ug/Kg		121	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.186	0.268		ug/Kg		144	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.192	0.214		ug/Kg		111	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.211		ug/Kg		109	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.843		ug/Kg		113	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.884		ug/Kg		117	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.919		ug/Kg		120	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.236		ug/Kg		118	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.255		ug/Kg		128	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.219		ug/Kg		109	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.241		ug/Kg		121	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.246		ug/Kg		123	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.31		ug/Kg		115	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	2.14		ug/Kg		107	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	0.985		ug/Kg		123	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.860		ug/Kg		114	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-635657/2-A
Matrix: Solid
Analysis Batch: 635892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635657

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoro-4-methoxybutanoic acid (PFMBA)			0.400	0.454		ug/Kg		114	40 - 150		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			0.400	0.449		ug/Kg		112	40 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			0.746	0.836		ug/Kg		112	40 - 150		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			0.754	0.797	J	ug/Kg		106	40 - 150		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			0.356	0.383	J	ug/Kg		108	40 - 150		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			1.00	1.11		ug/Kg		111	40 - 150		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			5.00	5.62		ug/Kg		112	40 - 150		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			5.00	5.02		ug/Kg		100	40 - 150		
Perfluorodecanesulfonic acid (PFDS)			0.193	0.219		ug/Kg		113	40 - 150		
Perfluoro-3-methoxypropanoic acid (PFMPA)			0.400	0.474		ug/Kg		119	40 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*83.2*		*20 - 150*
13C5 PFPeA	*89.8*		*20 - 150*
13C5 PFHxA	*89.7*		*20 - 150*
13C4 PFHpA	*87.2*		*20 - 150*
13C8 PFOA	*95.1*		*20 - 150*
13C9 PFNA	*94.6*		*20 - 150*
13C6 PFDA	*89.5*		*20 - 150*
13C7 PFUnA	*86.9*		*20 - 150*
13C2 PFTeDA	*82.9*		*20 - 150*
13C3 PFBS	*91.1*		*20 - 150*
13C3 PFHxS	*90.8*		*20 - 150*
13C8 PFOS	*91.4*		*20 - 150*
13C8 PFOSA	*87.3*		*20 - 150*
d3-NMeFOSAA	*104*		*20 - 150*
d5-NEtFOSAA	*107*		*20 - 150*
M2-4:2 FTS	*107*		*20 - 150*
M2-6:2 FTS	*109*		*20 - 150*
M2-8:2 FTS	*108*		*20 - 150*
13C3 HFPO-DA	*87.7*		*20 - 150*
d7-N-MeFOSE-M	*92.7*		*20 - 150*
d9-N-EtFOSE-M	*97.1*		*20 - 150*
d5-NEtPFOSA	*70.0*		*20 - 150*
D3-NMeFOSA	*62.3*		*20 - 150*
13C2-PFDoDA	*84.4*		*20 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-732559/1-A
Matrix: Solid
Analysis Batch: 732815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10	U	10	8.6	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Antimony	15.0	U	15.0	0.53	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Arsenic	2.0	U ^+	2.0	0.88	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Barium	0.50	U	0.50	0.14	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Beryllium	0.20	U	0.20	0.040	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Cadmium	0.0852	J	0.20	0.070	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Calcium	50.0	U	50.0	27.0	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Chromium	0.50	U	0.50	0.36	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Cobalt	0.50	U	0.50	0.10	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Copper	1.0	U	1.0	0.57	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Iron	10	U	10	8.5	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Lead	1.0	U	1.0	0.46	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Magnesium	20.0	U	20.0	8.5	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Manganese	1.0	U	1.0	0.28	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Nickel	5.0	U	5.0	0.25	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Potassium	30.0	U	30.0	24.2	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Selenium	4.0	U ^+	4.0	0.80	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Silver	0.60	U	0.60	0.20	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Sodium	140	U	140	61.3	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Thallium	6.0	U	6.0	0.76	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Vanadium	0.50	U	0.50	0.13	mg/Kg		11/15/24 15:29	11/18/24 14:20	1
Zinc	2.0	U	2.0	1.0	mg/Kg		11/15/24 15:29	11/18/24 14:20	1

Lab Sample ID: MB 480-732559/1-A
Matrix: Solid
Analysis Batch: 733027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.88	mg/Kg		11/15/24 15:29	11/19/24 12:59	1
Calcium	50.0	U	50.0	27.0	mg/Kg		11/15/24 15:29	11/19/24 12:59	1
Magnesium	20.0	U	20.0	8.5	mg/Kg		11/15/24 15:29	11/19/24 12:59	1
Sodium	140	U	140	61.3	mg/Kg		11/15/24 15:29	11/19/24 12:59	1
Thallium	6.0	U	6.0	0.76	mg/Kg		11/15/24 15:29	11/19/24 12:59	1

Lab Sample ID: LCSSRM 480-732559/2-A
Matrix: Solid
Analysis Batch: 732815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732559

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	6382		mg/Kg		83.1	35.5 - 119.1
Antimony	244	77.63		mg/Kg		31.8	10.0 - 125.0
Arsenic	283	197.6	^+	mg/Kg		69.8	60.1 - 111.3
Barium	326	242.2		mg/Kg		74.3	67.8 - 113.2
Beryllium	175	142.0		mg/Kg		81.1	68.6 - 114.3

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

Lab Sample ID: LCSSRM 480-732559/2-A
Matrix: Solid
Analysis Batch: 732815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732559

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	95.8	73.83		mg/Kg		77.1	66.0 - 109.6
Calcium	5470	4344		mg/Kg		79.4	70.4 - 122.1
Chromium	239	185.1		mg/Kg		77.4	62.3 - 115.9
Cobalt	150	135.6		mg/Kg		90.4	68.7 - 114.7
Copper	217	171.9		mg/Kg		79.2	67.3 - 112.4
Iron	7360	5663		mg/Kg		76.9	10.0 - 182.1
Lead	210	188.2		mg/Kg		89.6	67.6 - 117.1
Magnesium	2080	1656		mg/Kg		79.6	51.4 - 126.9
Manganese	290	211.3		mg/Kg		72.8	66.9 - 114.8
Nickel	329	263.1		mg/Kg		80.0	63.5 - 117.6
Potassium	2330	1863		mg/Kg		80.0	50.6 - 121.5
Selenium	281	214.7	^+	mg/Kg		76.4	67.3 - 126.3
Silver	82.7	63.60		mg/Kg		76.9	65.8 - 119.8
Sodium	427	338.6		mg/Kg		79.3	54.8 - 135.4
Thallium	123	110.3		mg/Kg		89.7	59.6 - 116.3
Vanadium	192	147.4		mg/Kg		76.8	64.6 - 112.0
Zinc	260	210.9		mg/Kg		81.1	63.5 - 118.1

Lab Sample ID: LCSSRM 480-732559/2-A
Matrix: Solid
Analysis Batch: 733027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732559

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	283	201.3		mg/Kg		71.1	60.1 - 111.3
Calcium	5470	4429		mg/Kg		81.0	70.4 - 122.1
Magnesium	2080	1677		mg/Kg		80.6	51.4 - 126.9
Silver	82.7	66.23		mg/Kg		80.1	65.8 - 119.8
Thallium	123	111.0		mg/Kg		90.2	59.6 - 116.3

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-732529/1-A
Matrix: Solid
Analysis Batch: 732596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0047	mg/Kg		11/15/24 09:51	11/15/24 12:38	1

Lab Sample ID: LCSSRM 480-732529/2-A ^10
Matrix: Solid
Analysis Batch: 732596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732529

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.9	20.55		mg/Kg		82.5	55.0 - 128.1

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-1008421/1-A
Matrix: Solid
Analysis Batch: 1008868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1008421

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		11/22/24 09:45	11/25/24 08:45	1

Lab Sample ID: LCSI 460-1008421/3-A
Matrix: Solid
Analysis Batch: 1008868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1008421

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	687.5		mg/Kg		97	80 - 120

Lab Sample ID: LCSSRM 460-1008421/2-A
Matrix: Solid
Analysis Batch: 1008868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1008421

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	14.9	13.61		mg/Kg		91.1	84.2 - 114.5

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-733148/1-A
Matrix: Solid
Analysis Batch: 733276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.87	U	0.87	0.42	mg/Kg		11/20/24 14:15	11/21/24 13:14	1

Lab Sample ID: LCSSRM 480-733148/3-A
Matrix: Solid
Analysis Batch: 733276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733148

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	75.47		mg/Kg		50.3	38.9 - 138.7

GC/MS VOA

Prep Batch: 732824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	5035A_L	
MB 480-732824/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-732824/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 732825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	8260C	732824
MB 480-732824/2-A	Method Blank	Total/NA	Solid	8260C	732824
LCS 480-732824/1-A	Lab Control Sample	Total/NA	Solid	8260C	732824

GC/MS Semi VOA

Prep Batch: 732500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	3550C	
MB 480-732500/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-732500/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 732742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	8270D	732500
MB 480-732500/1-A	Method Blank	Total/NA	Solid	8270D	732500
LCS 480-732500/2-A	Lab Control Sample	Total/NA	Solid	8270D	732500

GC Semi VOA

Prep Batch: 732501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	3550C	
MB 480-732501/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-732501/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 732517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	8082A	732501
MB 480-732501/1-A	Method Blank	Total/NA	Solid	8082A	732501
LCS 480-732501/2-A	Lab Control Sample	Total/NA	Solid	8082A	732501

Prep Batch: 732687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	3550C	
MB 480-732687/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-732687/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 732688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	8151A	
MB 480-732688/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-732688/2-A	Lab Control Sample	Total/NA	Solid	8151A	

GC Semi VOA

Analysis Batch: 732722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	8081B	732687
MB 480-732687/1-A	Method Blank	Total/NA	Solid	8081B	732687
LCS 480-732687/2-A	Lab Control Sample	Total/NA	Solid	8081B	732687

Analysis Batch: 732926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	8151A	732688
MB 480-732688/1-A	Method Blank	Total/NA	Solid	8151A	732688
LCS 480-732688/2-A	Lab Control Sample	Total/NA	Solid	8151A	732688

LCMS

Prep Batch: 635657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	1633 Shake	
MB 240-635657/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-635657/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-635657/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 635892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	Draft-3 1633	635657
MB 240-635657/1-A	Method Blank	Total/NA	Solid	Draft-3 1633	635657
LCS 240-635657/3-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	635657
LLCS 240-635657/2-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	635657

Metals

Prep Batch: 732529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	7471B	
MB 480-732529/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-732529/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 732559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	3050B	
MB 480-732559/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-732559/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 732596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	7471B	732529
MB 480-732529/1-A	Method Blank	Total/NA	Solid	7471B	732529
LCSSRM 480-732529/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	732529

Analysis Batch: 732815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	6010C	732559
MB 480-732559/1-A	Method Blank	Total/NA	Solid	6010C	732559
LCSSRM 480-732559/2-A	Lab Control Sample	Total/NA	Solid	6010C	732559

Metals

Analysis Batch: 733027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	6010C	732559
480-225489-1	TANK LOCATION	Total/NA	Solid	6010C	732559
MB 480-732559/1-A	Method Blank	Total/NA	Solid	6010C	732559
LCSSRM 480-732559/2-A	Lab Control Sample	Total/NA	Solid	6010C	732559

General Chemistry

Analysis Batch: 732476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	Moisture	

Prep Batch: 733148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	9012B	
MB 480-733148/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-733148/3-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 733276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	9012B	733148
MB 480-733148/1-A	Method Blank	Total/NA	Solid	9012B	733148
LCSSRM 480-733148/3-A	Lab Control Sample	Total/NA	Solid	9012B	733148

Prep Batch: 1008421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	3060A	
MB 460-1008421/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-1008421/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-1008421/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 1008868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225489-1	TANK LOCATION	Total/NA	Solid	7196A	1008421
MB 460-1008421/1-A	Method Blank	Total/NA	Solid	7196A	1008421
LCSI 460-1008421/3-A	Lab Control Sample	Total/NA	Solid	7196A	1008421
LCSSRM 460-1008421/2-A	Lab Control Sample	Total/NA	Solid	7196A	1008421

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225489-1
Project/Site: The Nest Site Analysis

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1
Date Collected: 11/13/24 14:30
Matrix: Solid
Date Received: 11/13/24 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	732476	JMM	EET BUF	11/14/24 15:52

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1
Date Collected: 11/13/24 14:30
Matrix: Solid
Date Received: 11/13/24 15:34
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			732824	CDC	EET BUF	11/18/24 18:11
Total/NA	Analysis	8260C		1	732825	CDC	EET BUF	11/19/24 03:59
Total/NA	Prep	3550C			732500	DP	EET BUF	11/15/24 06:44
Total/NA	Analysis	8270D		1	732742	JMM	EET BUF	11/18/24 22:14
Total/NA	Prep	3550C			732687	DP	EET BUF	11/17/24 06:39
Total/NA	Analysis	8081B		1	732722	JLS	EET BUF	11/18/24 14:29
Total/NA	Prep	3550C			732501	SMP	EET BUF	11/15/24 06:47
Total/NA	Analysis	8082A		1	732517	W1T	EET BUF	11/16/24 08:18
Total/NA	Prep	8151A			732688	DP	EET BUF	11/17/24 06:44
Total/NA	Analysis	8151A		1	732926	MAN	EET BUF	11/19/24 19:28
Total/NA	Prep	1633 Shake			635657	KML	EET CLE	11/18/24 09:10
Total/NA	Analysis	Draft-3 1633		1	635892	DSH	EET CLE	11/19/24 18:37
Total/NA	Prep	3050B			732559	TC	EET BUF	11/15/24 15:29
Total/NA	Analysis	6010C		1	732815	BMB	EET BUF	11/18/24 14:45
Total/NA	Prep	3050B			732559	TC	EET BUF	11/15/24 15:29
Total/NA	Analysis	6010C		1	733027	ESB	EET BUF	11/19/24 13:24
Total/NA	Prep	3050B			732559	TC	EET BUF	11/15/24 15:29
Total/NA	Analysis	6010C		5	733027	ESB	EET BUF	11/19/24 13:26
Total/NA	Prep	7471B			732529	ESB	EET BUF	11/15/24 09:51
Total/NA	Analysis	7471B		1	732596	ESB	EET BUF	11/15/24 12:55
Total/NA	Prep	3060A			1008421	MNP	EET EDI	11/22/24 09:45 - 11/22/24 10:45 [1]
Total/NA	Analysis	7196A		1	1008868	MNP	EET EDI	11/25/24 10:00
Total/NA	Prep	9012B			733148	CG	EET BUF	11/20/24 14:15
Total/NA	Analysis	9012B		1	733276	AM	EET BUF	11/21/24 13:23

[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

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225489-1
Project/Site: The Nest Site Analysis

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
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
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
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	12-31-24

Laboratory: Eurofins Edison

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-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	04-01-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-31-24
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225489-1
Project/Site: The Nest Site Analysis

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
Draft-3 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
7196A	Chromium, Hexavalent	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET EDI
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
9012B	Cyanide, Total and/or Amenable, Distillation	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

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225489-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-225489-1	TANK LOCATION	Solid	11/13/24 14:30	11/13/24 15:34

4802 8073

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: Jacob COX
Company: BE3 (Bridges Engineering)
Address: 960 Busti Ave Suite B-150
City: Buffalo
State, Zip: NY, 14213
Phone: 716 249. 6880
Email: JCOX@BE3corp.com
Site: The Nest

Sampler: Joseph Gambino
Phone: 716 249. 6880
Lab PM: J. Beninati
E-Mail:
Carrier Tracking No(s):
State of Origin:
COC No:
Page:
Job #:
Due Date Requested:
TAT Requested (days): Standard
PO #:
WO #:
SSOW#:
Accreditations Required (See note):

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 TCL VOC + TICs	6010C, 7471B, 4061B	6020A, 8151A, 8270D	7196A + 9012B	1633 - Final 1633	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
Tank Location	11/13/24	1430	G	S			X	X	X	X	X		Added Hex Chrom + Cyanide

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

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. T
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 laborator
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

480-225489 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if s
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Joseph Gambino	11-13-24 1534	BE3	TAB	11-13-24 1534	TAB
	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: 12.4 no ICE IR#5C

Ver: 06/08/2021

11/25/2024

Eurofins Buffalo
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 (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90445.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-225489-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/26/2024			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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

R085-38

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:						
TANK LOCATION (480-225489-1)	11/13/24	14:30 Eastern	G	Solid			X	2	

Analysis Requested

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
1	[signature]	11/14/24 1600	FA	MARTIN J SMITH	11-15-24 940	EC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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 11-15-24 Opened on 11-15-24

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 # 17 (CF +0.1 °C) Observed Cooler Temp 2.6 °C Corrected Cooler Temp. 2.7 °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# HC447997
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 24.85 LB
CAD 0759273/CAFE3855
DIMS 18x15x13 IN

BILL SENDER

Part # 159469-434 MTW EXP 06/25

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF. BARBERTON

FedEx Express

TRK# 0201 7463 0661 0998

FRI - 15 NOV 10:30A
PRIORITY OVERNIGHT

NP CAKA

44203
OH-US CLE

Eurofins Buffalo
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 (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90446.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP - New York		Job #: 480-225489-1
Address: 777 New Durham Road,	Due Date Requested: 11/26/2024			Preservation Codes:
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TANK LOCATION (480-225489-1)	11/13/24	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: 11-15-24 1600	Company	Received by: Fed Ex	Date/Time: 11/16/24 1150	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: 1-0/1-2 IR9

Ver: 10/10/2024

11/25/2024

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-225489-1

Login Number: 225489
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.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.4 NO 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	BE3
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-225489-1

Login Number: 225489
List Number: 3
Creator: Armbruster, Chris

List Source: Eurofins Edison
List Creation: 11/18/24 12:31 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0/1.2°C IR9
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jason Brydges
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 3/16/2023 3:07:40 PM

JOB DESCRIPTION

BE3 Corp - Old Falls Street

JOB NUMBER

480-206817-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Eurofins Buffalo

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

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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Authorized for release by
John Beninati, Project Manager
John.Beninati@et.eurofinsus.com
(716)504-9874

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Qualifiers

GC/MS 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.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

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
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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
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.
U	Indicates the analyte was analyzed for but not detected.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 480-206817-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-206817-1

Comments
No additional comments.

Receipt
The samples were received on 3/9/2023 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
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 sample contained an allowable number of surrogate compounds outside limits: (LCS 480-661199/2-A). These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-661256 recovered outside acceptance criteria, low biased, for Pentachlorophenol. 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.

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

Metals
Methods 6010, 6010C: The continuing calibration blank (CCB 480-661551/28) contained Total Manganese above the reporting limit (RL). All reported samples BH1 3-6FT (480-206817-1), BH2 3-6FT (480-206817-3), (LCDSRM 480-661318/3-A), (LCSSRM 480-661318/2-A), (MB 480-661318/1-A), (480-206817-B-1-B MS), (480-206817-B-1-C MSD), (480-206817-B-1-A PDS) and (480-206817-B-1-A SD ^5) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010C: The following samples were diluted due to the presence of Total Calcium which interferes with Copper: BH1 3-6FT (480-206817-1), BH2 3-6FT (480-206817-3), (480-206817-B-1-B MS ^5), (480-206817-B-1-C MSD ^5), (480-206817-B-1-A PDS ^5) and (480-206817-B-1-A SD ^25). 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.

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Client Sample ID: BH1 3-6FT — Lab Sample ID: 480-206817-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	31	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Pyrene	26	J	190	22	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.8	J	2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	20.9	F1 F2	0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.48		0.23	0.033	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.1		0.23	0.035	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.9		0.58	0.23	mg/Kg	1	☼	6010C	Total/NA
Copper	8.9	F1	5.8	1.2	mg/Kg	5	☼	6010C	Total/NA
Lead	65.4	F1 F2	1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Manganese	647	^2	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	3.6	J	5.8	0.27	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.2	J	4.6	0.46	mg/Kg	1	☼	6010C	Total/NA
Zinc	324		2.3	0.74	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.43		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH1 7-8FT — Lab Sample ID: 480-206817-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.0	J vs	5.6	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.65	J vs	5.6	0.36	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.36	J vs B	5.6	0.35	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.43	J vs	5.6	0.39	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.6	J vs	5.6	0.43	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.2	J vs	11	0.95	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: BH2 3-6FT — Lab Sample ID: 480-206817-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	6.2		0.53	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.054	J	0.21	0.030	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.77		0.21	0.032	mg/Kg	1	☼	6010C	Total/NA
Chromium	1.6		0.53	0.21	mg/Kg	1	☼	6010C	Total/NA
Copper	1.4	J	5.3	1.1	mg/Kg	5	☼	6010C	Total/NA
Lead	5.7		1.1	0.25	mg/Kg	1	☼	6010C	Total/NA
Manganese	613	^2	0.21	0.034	mg/Kg	1	☼	6010C	Total/NA
Nickel	1.2	J	5.3	0.24	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.76	J	4.2	0.42	mg/Kg	1	☼	6010C	Total/NA
Zinc	73.1		2.1	0.68	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.011	J	0.020	0.0047	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH2 3-4FT — Lab Sample ID: 480-206817-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.6	J vs	5.3	1.0	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.72	J vs	5.3	0.34	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.41	J vs B	5.3	0.33	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.93	J vs	5.3	0.40	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.2	J vs	11	0.90	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH1 3-6FT
Date Collected: 03/09/23 09:00
Date Received: 03/09/23 16:30

Lab Sample ID: 480-206817-1
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	110	U	110	61	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
2-Methylphenol	190	U	190	22	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
3-Methylphenol	360	U	360	29	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
4-Methylphenol	360	U	360	22	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Acenaphthene	190	U	190	28	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Acenaphthylene	190	U	190	24	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Anthracene	190	U	190	46	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Benzo[a]anthracene	190	U	190	19	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Benzo[a]pyrene	190	U	190	28	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Benzo[b]fluoranthene	190	U	190	30	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Benzo[g,h,i]perylene	190	U	190	20	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Benzo[k]fluoranthene	190	U	190	24	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Chrysene	190	U	190	42	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Dibenz(a,h)anthracene	190	U	190	33	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Dibenzofuran	190	U	190	22	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Fluoranthene	**31**	**J**	190	20	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Fluorene	190	U	190	22	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Hexachlorobenzene	190	U	190	25	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Indeno[1,2,3-cd]pyrene	190	U	190	23	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Naphthalene	190	U	190	24	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Pentachlorophenol	360	U	360	190	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Phenanthrene	190	U	190	28	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Phenol	190	U	190	29	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Pyrene	**26**	**J**	190	22	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*54 - 120*	*03/10/23 15:59*	*03/13/23 14:39*	*1*
2-Fluorobiphenyl (Surr)	*89*		*60 - 120*	*03/10/23 15:59*	*03/13/23 14:39*	*1*
2-Fluorophenol (Surr)	*83*		*52 - 120*	*03/10/23 15:59*	*03/13/23 14:39*	*1*
Nitrobenzene-d5 (Surr)	*84*		*53 - 120*	*03/10/23 15:59*	*03/13/23 14:39*	*1*
Phenol-d5 (Surr)	*89*		*54 - 120*	*03/10/23 15:59*	*03/13/23 14:39*	*1*
p-Terphenyl-d14 (Surr)	*89*		*79 - 130*	*03/10/23 15:59*	*03/13/23 14:39*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.8**	**J**	2.3	0.46	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Barium	**20.9**	**F1 F2**	0.58	0.13	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Beryllium	**0.48**		0.23	0.033	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Cadmium	**1.1**		0.23	0.035	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Chromium	**4.9**		0.58	0.23	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Copper	**8.9**	**F1**	5.8	1.2	mg/Kg	☼	03/13/23 13:11	03/15/23 12:43	5
Lead	**65.4**	**F1 F2**	1.2	0.28	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Manganese	**647**	**^2**	0.23	0.037	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Nickel	**3.6**	**J**	5.8	0.27	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Selenium	**1.2**	**J**	4.6	0.46	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Silver	0.70	U	0.70	0.23	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Zinc	**324**		2.3	0.74	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1

Client Sample ID: BH1 3-6FT
Lab Sample ID: 480-206817-1
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 89.2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.43**		0.022	0.0050	mg/Kg	☼	03/14/23 10:52	03/14/23 14:33	1

Client Sample ID: BH1 7-8FT
Lab Sample ID: 480-206817-2
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.6	U vs	5.6	0.41	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,1-Dichloroethane	5.6	U vs	5.6	0.69	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,1-Dichloroethene	5.6	U vs	5.6	0.69	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,2,4-Trimethylbenzene	**2.0**	**J vs**	5.6	1.1	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,2-Dichlorobenzene	5.6	U vs	5.6	0.44	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,2-Dichloroethane	5.6	U vs	5.6	0.28	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,3,5-Trimethylbenzene	**0.65**	**J vs**	5.6	0.36	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,3-Dichlorobenzene	5.6	U vs	5.6	0.29	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,4-Dichlorobenzene	5.6	U vs	5.6	0.79	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,4-Dioxane	110	U vs	110	25	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
2-Butanone (MEK)	28	U vs	28	2.1	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Acetone	28	U vs	28	4.7	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Benzene	5.6	U vs	5.6	0.28	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Carbon tetrachloride	5.6	U vs	5.6	0.55	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Chlorobenzene	5.6	U vs	5.6	0.74	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Chloroform	**0.36**	**J vs B**	5.6	0.35	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
cis-1,2-Dichloroethene	5.6	U vs	5.6	0.72	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Ethylbenzene	**0.43**	**J vs**	5.6	0.39	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Methyl tert-butyl ether	5.6	U vs	5.6	0.55	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Methylene Chloride	5.6	U vs	5.6	2.6	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
n-Butylbenzene	5.6	U vs	5.6	0.49	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
N-Propylbenzene	5.6	U vs	5.6	0.45	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
sec-Butylbenzene	5.6	U vs	5.6	0.49	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
tert-Butylbenzene	5.6	U vs	5.6	0.59	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Tetrachloroethene	5.6	U vs	5.6	0.76	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Toluene	**1.6**	**J vs**	5.6	0.43	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
trans-1,2-Dichloroethene	5.6	U vs	5.6	0.58	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Trichloroethene	5.6	U vs	5.6	1.2	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Vinyl chloride	5.6	U vs	5.6	0.69	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Xylenes, Total	**3.2**	**J vs**	11	0.95	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*2.4*	*J*	*ug/Kg*	☼	*8.78*	*179601-23-1*	*03/13/23 11:30*	*03/14/23 00:05*	*1*
o-Xylene	*0.81*	*J*	*ug/Kg*	☼	*9.21*	*95-47-6*	*03/13/23 11:30*	*03/14/23 00:05*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*03/13/23 11:30*	*03/14/23 00:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*	*03/13/23 11:30*	*03/14/23 00:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*03/13/23 11:30*	*03/14/23 00:05*	*1*
Dibromofluoromethane (Surr)	*95*		*60 - 140*	*03/13/23 11:30*	*03/14/23 00:05*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*03/13/23 11:30*	*03/14/23 00:05*	*1*

Client Sample ID: BH2 3-6FT
Lab Sample ID: 480-206817-3
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	56	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
2-Methylphenol	170	U	170	20	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
3-Methylphenol	340	U	340	26	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
4-Methylphenol	340	U	340	20	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Acenaphthene	170	U	170	25	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Acenaphthylene	170	U	170	22	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Anthracene	170	U	170	43	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Benzo[a]anthracene	170	U	170	17	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Benzo[a]pyrene	170	U	170	25	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Chrysene	170	U	170	39	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Dibenzofuran	170	U	170	20	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Fluoranthene	170	U	170	18	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Fluorene	170	U	170	20	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Hexachlorobenzene	170	U	170	23	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Naphthalene	170	U	170	22	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Pentachlorophenol	340	U	340	170	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Phenanthrene	170	U	170	25	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Phenol	170	U	170	26	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Pyrene	170	U	170	20	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*54 - 120*	*03/10/23 15:59*	*03/13/23 15:03*	*1*
2-Fluorobiphenyl (Surr)	*87*		*60 - 120*	*03/10/23 15:59*	*03/13/23 15:03*	*1*
2-Fluorophenol (Surr)	*82*		*52 - 120*	*03/10/23 15:59*	*03/13/23 15:03*	*1*
Nitrobenzene-d5 (Surr)	*87*		*53 - 120*	*03/10/23 15:59*	*03/13/23 15:03*	*1*
Phenol-d5 (Surr)	*89*		*54 - 120*	*03/10/23 15:59*	*03/13/23 15:03*	*1*
p-Terphenyl-d14 (Surr)	*87*		*79 - 130*	*03/10/23 15:59*	*03/13/23 15:03*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1	U	2.1	0.42	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Barium	**6.2**		0.53	0.12	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Beryllium	**0.054**	**J**	0.21	0.030	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Cadmium	**0.77**		0.21	0.032	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Chromium	**1.6**		0.53	0.21	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Copper	**1.4**	**J**	5.3	1.1	mg/Kg	☼	03/13/23 13:11	03/15/23 13:02	5
Lead	**5.7**		1.1	0.25	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Manganese	**613**	**^2**	0.21	0.034	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Nickel	**1.2**	**J**	5.3	0.24	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Selenium	**0.76**	**J**	4.2	0.42	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Silver	0.64	U	0.64	0.21	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Zinc	**73.1**		2.1	0.68	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1

Client Sample ID: BH2 3-6FT
Lab Sample ID: 480-206817-3
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 96.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.020	0.0047	mg/Kg	☼	03/14/23 10:52	03/14/23 14:35	1

Client Sample ID: BH2 3-4FT
Lab Sample ID: 480-206817-4
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U vs	5.3	0.39	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,1-Dichloroethane	5.3	U vs	5.3	0.65	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,1-Dichloroethene	5.3	U vs	5.3	0.65	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,2,4-Trimethylbenzene	**2.6**	**J vs**	5.3	1.0	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,2-Dichlorobenzene	5.3	U vs	5.3	0.42	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,2-Dichloroethane	5.3	U vs	5.3	0.27	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,3,5-Trimethylbenzene	**0.72**	**J vs**	5.3	0.34	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,4-Dichlorobenzene	5.3	U vs	5.3	0.75	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,4-Dioxane	110	U vs	110	23	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
2-Butanone (MEK)	27	U vs	27	2.0	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Acetone	27	U vs	27	4.5	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Benzene	5.3	U vs	5.3	0.26	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Carbon tetrachloride	5.3	U vs	5.3	0.52	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Chlorobenzene	5.3	U vs	5.3	0.71	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Chloroform	**0.41**	**J vs B**	5.3	0.33	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
cis-1,2-Dichloroethene	5.3	U vs	5.3	0.68	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Ethylbenzene	5.3	U vs	5.3	0.37	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Methyl tert-butyl ether	5.3	U vs	5.3	0.53	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Methylene Chloride	5.3	U vs	5.3	2.5	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
n-Butylbenzene	5.3	U vs	5.3	0.47	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
N-Propylbenzene	5.3	U vs	5.3	0.43	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
sec-Butylbenzene	5.3	U vs	5.3	0.47	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
tert-Butylbenzene	5.3	U vs	5.3	0.56	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Tetrachloroethene	5.3	U vs	5.3	0.72	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Toluene	**0.93**	**J vs**	5.3	0.40	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
trans-1,2-Dichloroethene	5.3	U vs	5.3	0.55	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Trichloroethene	5.3	U vs	5.3	1.2	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Vinyl chloride	5.3	U vs	5.3	0.65	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Xylenes, Total	**2.2**	**J vs**	11	0.90	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*2.2*	*J*	*ug/Kg*	☼	*8.78*	*179601-23-1*	*03/13/23 11:30*	*03/14/23 00:29*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*03/13/23 11:30*	*03/14/23 00:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*	*03/13/23 11:30*	*03/14/23 00:29*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*03/13/23 11:30*	*03/14/23 00:29*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*03/13/23 11:30*	*03/14/23 00:29*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*03/13/23 11:30*	*03/14/23 00:29*	*1*

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)
480-206817-2	BH1 7-8FT	97	95	95	98
480-206817-4	BH2 3-4FT	100	96	99	99
LCS 480-661313/1-A	Lab Control Sample	96	97	102	100
LCSD 480-661313/2-A	Lab Control Sample Dup	98	98	103	100
MB 480-661313/3-A	Method Blank	95	102	101	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
480-206817-1	BH1 3-6FT	77	89	83	84	89	89
480-206817-3	BH2 3-6FT	72	87	82	87	89	87
LCS 480-661199/2-A	Lab Control Sample	75	73	68	71	73	77 S1-
MB 480-661199/1-A	Method Blank	59	75	70	72	76	82

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 480-661313/3-A
Matrix: Solid
Analysis Batch: 661315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.96	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.32	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,4-Dioxane	100	U	100	22	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Acetone	25	U	25	4.2	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Benzene	5.0	U	5.0	0.25	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Chloroform	0.477	J	5.0	0.31	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
n-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
N-Propylbenzene	5.0	U	5.0	0.40	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
sec-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
tert-Butylbenzene	5.0	U	5.0	0.52	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Toluene	5.0	U	5.0	0.38	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Xylenes, Total	10	U	10	0.84	ug/Kg		03/13/23 11:30	03/13/23 15:18	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*	*03/13/23 11:30*	*03/13/23 15:18*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 126*	*03/13/23 11:30*	*03/13/23 15:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*03/13/23 11:30*	*03/13/23 15:18*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*03/13/23 11:30*	*03/13/23 15:18*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*03/13/23 11:30*	*03/13/23 15:18*	*1*

Lab Sample ID: LCS 480-661313/1-A
Matrix: Solid
Analysis Batch: 661315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.8		ug/Kg		102	77 - 121
1,1-Dichloroethane	50.0	51.7		ug/Kg		103	73 - 126
1,1-Dichloroethene	50.0	49.8		ug/Kg		100	59 - 125

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

Lab Sample ID: LCS 480-661313/1-A
Matrix: Solid
Analysis Batch: 661315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	50.0	51.2		ug/Kg		102	74 - 120
1,2-Dichlorobenzene	50.0	48.5		ug/Kg		97	75 - 120
1,2-Dichloroethane	50.0	48.1		ug/Kg		96	77 - 122
1,3,5-Trimethylbenzene	50.0	53.3		ug/Kg		107	74 - 120
1,3-Dichlorobenzene	50.0	49.1		ug/Kg		98	74 - 120
1,4-Dichlorobenzene	50.0	48.2		ug/Kg		96	73 - 120
1,4-Dioxane	1000	682		ug/Kg		68	64 - 124
2-Butanone (MEK)	250	204		ug/Kg		81	70 - 134
Acetone	250	157		ug/Kg		63	61 - 137
Benzene	50.0	50.0		ug/Kg		100	79 - 127
Carbon tetrachloride	50.0	50.5		ug/Kg		101	75 - 135
Chlorobenzene	50.0	48.6		ug/Kg		97	76 - 124
Chloroform	50.0	51.6		ug/Kg		103	80 - 120
cis-1,2-Dichloroethene	50.0	51.2		ug/Kg		102	81 - 120
Ethylbenzene	50.0	49.6		ug/Kg		99	80 - 120
Methyl tert-butyl ether	50.0	50.3		ug/Kg		101	63 - 125
Methylene Chloride	50.0	56.7		ug/Kg		113	61 - 127
n-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 120
N-Propylbenzene	50.0	52.4		ug/Kg		105	70 - 130
sec-Butylbenzene	50.0	51.8		ug/Kg		104	74 - 120
tert-Butylbenzene	50.0	52.7		ug/Kg		105	73 - 120
Tetrachloroethene	50.0	48.3		ug/Kg		97	74 - 122
Toluene	50.0	49.6		ug/Kg		99	74 - 128
trans-1,2-Dichloroethene	50.0	53.2		ug/Kg		106	78 - 126
Trichloroethene	50.0	49.1		ug/Kg		98	77 - 129
Vinyl chloride	50.0	53.6		ug/Kg		107	61 - 133
Xylenes, Total	100	102		ug/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*100*		*71 - 125*

Lab Sample ID: LCSD 480-661313/2-A
Matrix: Solid
Analysis Batch: 661315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661313

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	49.2		ug/Kg		98	77 - 121	3	20
1,1-Dichloroethane	50.0	50.5		ug/Kg		101	73 - 126	2	20
1,1-Dichloroethene	50.0	50.3		ug/Kg		101	59 - 125	1	20
1,2,4-Trimethylbenzene	50.0	50.1		ug/Kg		100	74 - 120	2	20
1,2-Dichlorobenzene	50.0	48.1		ug/Kg		96	75 - 120	1	20
1,2-Dichloroethane	50.0	49.6		ug/Kg		99	77 - 122	3	20
1,3,5-Trimethylbenzene	50.0	51.7		ug/Kg		103	74 - 120	3	20
1,3-Dichlorobenzene	50.0	48.1		ug/Kg		96	74 - 120	2	20
1,4-Dichlorobenzene	50.0	47.4		ug/Kg		95	73 - 120	2	20

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

Lab Sample ID: LCSD 480-661313/2-A
Matrix: Solid
Analysis Batch: 661315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661313

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			1000	741		ug/Kg		74	64 - 124	8	20
2-Butanone (MEK)			250	218		ug/Kg		87	70 - 134	7	20
Acetone			250	171		ug/Kg		68	61 - 137	9	20
Benzene			50.0	49.4		ug/Kg		99	79 - 127	1	20
Carbon tetrachloride			50.0	48.7		ug/Kg		97	75 - 135	4	20
Chlorobenzene			50.0	47.9		ug/Kg		96	76 - 124	2	20
Chloroform			50.0	51.2		ug/Kg		102	80 - 120	1	20
cis-1,2-Dichloroethene			50.0	50.1		ug/Kg		100	81 - 120	2	20
Ethylbenzene			50.0	48.5		ug/Kg		97	80 - 120	2	20
Methyl tert-butyl ether			50.0	50.4		ug/Kg		101	63 - 125	0	20
Methylene Chloride			50.0	58.2		ug/Kg		116	61 - 127	3	20
n-Butylbenzene			50.0	47.4		ug/Kg		95	70 - 120	3	20
N-Propylbenzene			50.0	50.5		ug/Kg		101	70 - 130	4	20
sec-Butylbenzene			50.0	50.4		ug/Kg		101	74 - 120	3	20
tert-Butylbenzene			50.0	50.0		ug/Kg		100	73 - 120	5	20
Tetrachloroethene			50.0	46.3		ug/Kg		93	74 - 122	4	20
Toluene			50.0	47.9		ug/Kg		96	74 - 128	3	20
trans-1,2-Dichloroethene			50.0	51.3		ug/Kg		103	78 - 126	4	20
Trichloroethene			50.0	48.0		ug/Kg		96	77 - 129	2	20
Vinyl chloride			50.0	52.3		ug/Kg		105	61 - 133	2	20
Xylenes, Total			100	98.7		ug/Kg		99	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*100*		*71 - 125*

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

Lab Sample ID: MB 480-661199/1-A
Matrix: Solid
Analysis Batch: 661256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	99	U	99	55	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
2-Methylphenol	170	U	170	20	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
3-Methylphenol	330	U	330	26	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
4-Methylphenol	330	U	330	20	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Acenaphthene	170	U	170	25	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Acenaphthylene	170	U	170	22	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Anthracene	170	U	170	42	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Chrysene	170	U	170	38	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		03/10/23 15:59	03/13/23 11:23	1

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

Lab Sample ID: MB 480-661199/1-A
Matrix: Solid
Analysis Batch: 661256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	170	U	170	20	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Fluoranthene	170	U	170	18	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Fluorene	170	U	170	20	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Hexachlorobenzene	170	U	170	23	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Naphthalene	170	U	170	22	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Pentachlorophenol	330	U	330	170	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Phenanthrene	170	U	170	25	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Phenol	170	U	170	26	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Pyrene	170	U	170	20	ug/Kg		03/10/23 15:59	03/13/23 11:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*59*		*54 - 120*	*03/10/23 15:59*	*03/13/23 11:23*	*1*
2-Fluorobiphenyl (Surr)	*75*		*60 - 120*	*03/10/23 15:59*	*03/13/23 11:23*	*1*
2-Fluorophenol (Surr)	*70*		*52 - 120*	*03/10/23 15:59*	*03/13/23 11:23*	*1*
Nitrobenzene-d5 (Surr)	*72*		*53 - 120*	*03/10/23 15:59*	*03/13/23 11:23*	*1*
Phenol-d5 (Surr)	*76*		*54 - 120*	*03/10/23 15:59*	*03/13/23 11:23*	*1*
p-Terphenyl-d14 (Surr)	*82*		*79 - 130*	*03/10/23 15:59*	*03/13/23 11:23*	*1*

Lab Sample ID: LCS 480-661199/2-A
Matrix: Solid
Analysis Batch: 661256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1650	680		ug/Kg		41	23 - 120
2-Methylphenol	1650	1270		ug/Kg		77	54 - 120
3-Methylphenol	1650	1330		ug/Kg		80	55 - 120
4-Methylphenol	1650	1330		ug/Kg		80	55 - 120
Acenaphthene	1650	1300		ug/Kg		79	62 - 120
Acenaphthylene	1650	1290		ug/Kg		78	58 - 121
Anthracene	1650	1420		ug/Kg		86	62 - 120
Benzo[a]anthracene	1650	1300		ug/Kg		79	65 - 120
Benzo[a]pyrene	1650	1480		ug/Kg		89	64 - 120
Benzo[b]fluoranthene	1650	1510		ug/Kg		92	64 - 120
Benzo[g,h,i]perylene	1650	1580		ug/Kg		95	45 - 145
Benzo[k]fluoranthene	1650	1460		ug/Kg		88	65 - 120
Chrysene	1650	1300		ug/Kg		79	64 - 120
Dibenz(a,h)anthracene	1650	1510		ug/Kg		92	54 - 132
Dibenzofuran	1650	1310		ug/Kg		79	63 - 120
Fluoranthene	1650	1500		ug/Kg		91	62 - 120
Fluorene	1650	1340		ug/Kg		81	63 - 120
Hexachlorobenzene	1650	1370		ug/Kg		83	60 - 120
Indeno[1,2,3-cd]pyrene	1650	1610		ug/Kg		97	56 - 134
Naphthalene	1650	1200		ug/Kg		73	55 - 120
Pentachlorophenol	3310	1970		ug/Kg		59	51 - 120
Phenanthrene	1650	1460		ug/Kg		88	60 - 120
Phenol	1650	1290		ug/Kg		78	53 - 120
Pyrene	1650	1360		ug/Kg		82	61 - 133

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

Lab Sample ID: LCS 480-661199/2-A
Matrix: Solid
Analysis Batch: 661256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661199

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*54 - 120*
2-Fluorobiphenyl (Surr)	*73*		*60 - 120*
2-Fluorophenol (Surr)	*68*		*52 - 120*
Nitrobenzene-d5 (Surr)	*71*		*53 - 120*
Phenol-d5 (Surr)	*73*		*54 - 120*
p-Terphenyl-d14 (Surr)	*77*	*S1-*	*79 - 130*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-661318/1-A
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9	U	1.9	0.39	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Barium	0.49	U	0.49	0.11	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Beryllium	0.19	U	0.19	0.027	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Cadmium	0.19	U	0.19	0.029	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Chromium	0.49	U	0.49	0.19	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Copper	0.97	U	0.97	0.20	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Lead	0.97	U	0.97	0.23	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Manganese	0.19	U	0.19	0.031	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Nickel	4.9	U	4.9	0.22	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Selenium	3.9	U	3.9	0.39	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Silver	0.58	U	0.58	0.19	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Zinc	1.9	U	1.9	0.62	mg/Kg		03/13/23 13:11	03/14/23 14:30	1

Lab Sample ID: LCDSRM 480-661318/3-A
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661318

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			129	103.7		mg/Kg		80.4	60.9 - 113.2	4	20
Barium			169	157.3		mg/Kg		93.1	68.6 - 114.2	3	20
Beryllium			137	107.7		mg/Kg		78.6	66.3 - 110.2	5	20
Cadmium			227	172.5		mg/Kg		76.0	64.8 - 110.1	4	20
Chromium			115	93.60		mg/Kg		81.4	62.4 - 115.7	5	20
Copper			76.0	63.27		mg/Kg		83.3	69.5 - 115.8	5	20
Lead			74.8	82.74		mg/Kg		110.6	67.0 - 128.9	2	20
Manganese			400	348.1		mg/Kg		87.0	70.5 - 115.8	4	20
Nickel			282	255.6		mg/Kg		90.6	62.1 - 114.9	4	20

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

Lab Sample ID: LCDSRM 480-661318/3-A
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	246	187.6		mg/Kg		76.2	60.2 - 114.6	5	20
Silver	87.5	72.22		mg/Kg		82.5	63.7 - 115.4	4	20
Zinc	401	311.4		mg/Kg		77.7	62.8 - 116.7	4	20

Lab Sample ID: LCSSRM 480-661318/2-A
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	108.0		mg/Kg		83.7	60.9 - 113.2
Barium	169	153.0		mg/Kg		90.5	68.6 - 114.2
Beryllium	137	113.4		mg/Kg		82.8	66.3 - 110.2
Cadmium	227	180.2		mg/Kg		79.4	64.8 - 110.1
Chromium	115	97.95		mg/Kg		85.2	62.4 - 115.7
Copper	76.0	66.44		mg/Kg		87.4	69.5 - 115.8
Lead	74.8	84.56		mg/Kg		113.1	67.0 - 128.9
Manganese	400	362.6		mg/Kg		90.7	70.5 - 115.8
Nickel	282	265.4		mg/Kg		94.1	62.1 - 114.9
Selenium	246	197.2		mg/Kg		80.2	60.2 - 114.6
Silver	87.5	75.36		mg/Kg		86.1	63.7 - 115.4
Zinc	401	324.1		mg/Kg		80.8	62.8 - 116.7

Lab Sample ID: 480-206817-1 MS
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: BH1 3-6FT
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.8	J	45.0	49.65		mg/Kg	☼	106	75 - 125
Barium	20.9	F1 F2	45.0	80.10	F1	mg/Kg	☼	132	75 - 125
Beryllium	0.48		45.0	42.59		mg/Kg	☼	94	75 - 125
Cadmium	1.1		45.0	47.77		mg/Kg	☼	104	75 - 125
Chromium	4.9		45.0	50.58		mg/Kg	☼	102	75 - 125
Lead	65.4	F1 F2	45.0	114.3		mg/Kg	☼	109	75 - 125
Manganese	647	^2	45.0	692.9	4	mg/Kg	☼	101	75 - 125
Nickel	3.6	J	45.0	51.86		mg/Kg	☼	107	75 - 125
Selenium	1.2	J	45.0	45.74		mg/Kg	☼	99	75 - 125
Silver	0.70	U	11.2	12.31		mg/Kg	☼	110	75 - 125
Zinc	324		45.0	537.1	4	mg/Kg	☼	474	75 - 125

Method: 6010C - Metals (ICP)

Lab Sample ID: 480-206817-1 MS
Matrix: Solid
Analysis Batch: 661726

Client Sample ID: BH1 3-6FT
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Copper	8.9	F1	45.0	58.93		mg/Kg	☼	111	75 - 125		

Lab Sample ID: 480-206817-1 MSD
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: BH1 3-6FT
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.8	J	45.3	49.54		mg/Kg	☼	105	75 - 125	0	20
Barium	20.9	F1 F2	45.3	103.3	F1 F2	mg/Kg	☼	182	75 - 125	25	20
Beryllium	0.48		45.3	43.07		mg/Kg	☼	94	75 - 125	1	20
Cadmium	1.1		45.3	48.48		mg/Kg	☼	105	75 - 125	1	20
Chromium	4.9		45.3	50.96		mg/Kg	☼	102	75 - 125	1	20
Lead	65.4	F1 F2	45.3	575.0	F1 F2	mg/Kg	☼	1125	75 - 125	134	20
Manganese	647	^2	45.3	634.7	4	mg/Kg	☼	-28	75 - 125	9	20
Nickel	3.6	J	45.3	52.29		mg/Kg	☼	108	75 - 125	1	20
Selenium	1.2	J	45.3	45.85		mg/Kg	☼	99	75 - 125	0	20
Silver	0.70	U	11.3	12.30		mg/Kg	☼	109	75 - 125	0	20
Zinc	324		45.3	595.3	4	mg/Kg	☼	600	75 - 125	10	20

Lab Sample ID: 480-206817-1 MSD
Matrix: Solid
Analysis Batch: 661726

Client Sample ID: BH1 3-6FT
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	8.9	F1	45.3	65.82	F1	mg/Kg	☼	126	75 - 125	11	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-661341/1-A
Matrix: Solid
Analysis Batch: 661467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0045	mg/Kg		03/14/23 10:52	03/14/23 14:09	1

Lab Sample ID: LCSSRM 480-661341/2-A ^10
Matrix: Solid
Analysis Batch: 661467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661341

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	20.7	9.94		mg/Kg		48.0	38.3 - 110.1

GC/MS VOA

Prep Batch: 661313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-2	BH1 7-8FT	Total/NA	Solid	5035A_L	
480-206817-4	BH2 3-4FT	Total/NA	Solid	5035A_L	
MB 480-661313/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-661313/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-661313/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 661315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-2	BH1 7-8FT	Total/NA	Solid	8260C	661313
480-206817-4	BH2 3-4FT	Total/NA	Solid	8260C	661313
MB 480-661313/3-A	Method Blank	Total/NA	Solid	8260C	661313
LCS 480-661313/1-A	Lab Control Sample	Total/NA	Solid	8260C	661313
LCSD 480-661313/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	661313

GC/MS Semi VOA

Prep Batch: 661199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	3550C	
480-206817-3	BH2 3-6FT	Total/NA	Solid	3550C	
MB 480-661199/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-661199/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 661256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	8270D	661199
480-206817-3	BH2 3-6FT	Total/NA	Solid	8270D	661199
MB 480-661199/1-A	Method Blank	Total/NA	Solid	8270D	661199
LCS 480-661199/2-A	Lab Control Sample	Total/NA	Solid	8270D	661199

Metals

Prep Batch: 661318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	3050B	
480-206817-3	BH2 3-6FT	Total/NA	Solid	3050B	
MB 480-661318/1-A	Method Blank	Total/NA	Solid	3050B	
LCDSRM 480-661318/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-661318/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-206817-1 MS	BH1 3-6FT	Total/NA	Solid	3050B	
480-206817-1 MSD	BH1 3-6FT	Total/NA	Solid	3050B	

Prep Batch: 661341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	7471B	
480-206817-3	BH2 3-6FT	Total/NA	Solid	7471B	
MB 480-661341/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-661341/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 661467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	7471B	661341

Metals (Continued)

Analysis Batch: 661467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-3	BH2 3-6FT	Total/NA	Solid	7471B	661341
MB 480-661341/1-A	Method Blank	Total/NA	Solid	7471B	661341
LCSSRM 480-661341/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	661341

Analysis Batch: 661551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	6010C	661318
480-206817-3	BH2 3-6FT	Total/NA	Solid	6010C	661318
MB 480-661318/1-A	Method Blank	Total/NA	Solid	6010C	661318
LCDSRM 480-661318/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	661318
LCSSRM 480-661318/2-A	Lab Control Sample	Total/NA	Solid	6010C	661318
480-206817-1 MS	BH1 3-6FT	Total/NA	Solid	6010C	661318
480-206817-1 MSD	BH1 3-6FT	Total/NA	Solid	6010C	661318

Analysis Batch: 661726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	6010C	661318
480-206817-3	BH2 3-6FT	Total/NA	Solid	6010C	661318
480-206817-1 MS	BH1 3-6FT	Total/NA	Solid	6010C	661318
480-206817-1 MSD	BH1 3-6FT	Total/NA	Solid	6010C	661318

General Chemistry

Analysis Batch: 661200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	Moisture	
480-206817-2	BH1 7-8FT	Total/NA	Solid	Moisture	
480-206817-3	BH2 3-6FT	Total/NA	Solid	Moisture	
480-206817-4	BH2 3-4FT	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Client Sample ID: BH1 3-6FT
Lab Sample ID: 480-206817-1
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	661200	KER	EET BUF	03/10/23 16:07

Client Sample ID: BH1 3-6FT
Lab Sample ID: 480-206817-1
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			661199	SJM	EET BUF	03/10/23 15:59
Total/NA	Analysis	8270D		1	661256	JMM	EET BUF	03/13/23 14:39
Total/NA	Prep	3050B			661318	NVK	EET BUF	03/13/23 13:11
Total/NA	Analysis	6010C		1	661551	LMH	EET BUF	03/14/23 14:41
Total/NA	Prep	3050B			661318	NVK	EET BUF	03/13/23 13:11
Total/NA	Analysis	6010C		5	661726	LMH	EET BUF	03/15/23 12:43
Total/NA	Prep	7471B			661341	NVK	EET BUF	03/14/23 10:52
Total/NA	Analysis	7471B		1	661467	NVK	EET BUF	03/14/23 14:33

Client Sample ID: BH1 7-8FT
Lab Sample ID: 480-206817-2
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	661200	KER	EET BUF	03/10/23 16:07

Client Sample ID: BH1 7-8FT
Lab Sample ID: 480-206817-2
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			661313	LCH	EET BUF	03/13/23 11:30
Total/NA	Analysis	8260C		1	661315	CDC	EET BUF	03/14/23 00:05

Client Sample ID: BH2 3-6FT
Lab Sample ID: 480-206817-3
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	661200	KER	EET BUF	03/10/23 16:07

Client Sample ID: BH2 3-6FT
Lab Sample ID: 480-206817-3
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			661199	SJM	EET BUF	03/10/23 15:59
Total/NA	Analysis	8270D		1	661256	JMM	EET BUF	03/13/23 15:03

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Client Sample ID: BH2 3-6FT
Lab Sample ID: 480-206817-3
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			661318	NVK	EET BUF	03/13/23 13:11
Total/NA	Analysis	6010C		1	661551	LMH	EET BUF	03/14/23 15:13
Total/NA	Prep	3050B			661318	NVK	EET BUF	03/13/23 13:11
Total/NA	Analysis	6010C		5	661726	LMH	EET BUF	03/15/23 13:02
Total/NA	Prep	7471B			661341	NVK	EET BUF	03/14/23 10:52
Total/NA	Analysis	7471B		1	661467	NVK	EET BUF	03/14/23 14:35

Client Sample ID: BH2 3-4FT
Lab Sample ID: 480-206817-4
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	661200	KER	EET BUF	03/10/23 16:07

Client Sample ID: BH2 3-4FT
Lab Sample ID: 480-206817-4
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			661313	LCH	EET BUF	03/13/23 11:30
Total/NA	Analysis	8260C		1	661315	CDC	EET BUF	03/14/23 00:29

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

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	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
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

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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-206817-1	BH1 3-6FT	Solid	03/09/23 09:00	03/09/23 16:30
480-206817-2	BH1 7-8FT	Solid	03/09/23 09:00	03/09/23 16:30
480-206817-3	BH2 3-6FT	Solid	03/09/23 09:30	03/09/23 16:30
480-206817-4	BH2 3-4FT	Solid	03/09/23 09:30	03/09/23 16:30

Eurofins Buffalo
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: Jacob Cox	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-182773-38809.2
Client Contact: Jason Brydges	Phone: 716 418 0192	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Brydges Engineering in Environment & Energy DPC	PWSID:			Job #:
Address: 960 Busti Ave Suite B-150	Due Date Requested:			
City: Buffalo	TAT Requested (days): 10 day			
State, Zip: NY, 14213	Compliance Project: Δ Yes Δ No			
Phone: 716-362-6533(Tel)	PO #: Purchase Order not required			
Email: jbrydges@be3corp.com	WO #: AMD-Edgemere			
Project Name: AMD Edgemere Old Falls Street	Project #: 48024347			
Site: Old Falls Street	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

480-206817 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)	6010C, 7471B	8270D - Part 375 SVOCs	8260C - Part 375 VOCs (LL BULK) + TICs	8260C - Part 375 VOCs	Tot	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
BH1 3-6 FT	3/9	9:00	G	Solid			X	X				
BH1 7-8 FT	3/9	9:00	G	Solid					X			
				Water								
BH2 3-6 FT	3/9	9:30	G	Solid			X	X				
BH2 ~~7-8 FT~~ 3-4 FT	3/9	9:30	G	Solid					X			

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: NONE

Empty Kit Relinquished by: Jacob Cox	Date:	Time:	Method of Shipment:		
Relinquished by: Jacob Cox	Date/Time: 3/9 4:30 pm	Company: BE3	Received by: [signature]	Date/Time: 3/9/23 1630	Company: 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: 3.4 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-206817-1
SDG Number:

Login Number: 206817
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	BE3
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: Jason Brydges
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 4/14/2023 8:15:54 AM

JOB DESCRIPTION

Old Falls Street

JOB NUMBER

480-207459-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

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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Authorized for release by
John Beninati, Project Manager
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(716)504-9874

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

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.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

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.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 480-207459-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-207459-1

Comments
No additional comments.

Receipt
The samples were received on 4/3/2023 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 9.2º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-663911 recovered above the upper control limit for 1,1,1-Trichloroethane, 1,1-Dichloroethene, Carbon tetrachloride, trans-1,2-Dichloroethene and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH8 2-4 FT (480-207459-6) and BH9 2-4 FT (480-207459-7).

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: 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: BH4 1-2 FT (480-207459-2), BH7 1-4 FT (480-207459-5), BH8 2-4 FT (480-207459-6), BH9 2-4 FT (480-207459-7) and BH10 2-4 FT (480-207459-8). These results have been reported and qualified.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BH4 1-2 FT (480-207459-2), BH6 2-4 FT (480-207459-4), BH7 1-4 FT (480-207459-5), BH8 2-4 FT (480-207459-6), BH9 2-4 FT (480-207459-7) and BH10 2-4 FT (480-207459-8). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: BH6 2-4 FT (480-207459-4). 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: The following sample was diluted due to color, appearance, and viscosity: BH5 3-6 FT (480-207459-3). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: BH5 3-6 FT (480-207459-3). As such, surrogate recoveries are below the calibration range or are not reported, and 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.

Metals
Method 6010C: The following samples were diluted due to the presence of Total Calcium which interferes with Copper: BH5 3-6 FT (480-207459-3), BH10 2-4 FT (480-207459-8), (480-207459-B-8-B MS ^5), (480-207459-B-8-C MSD ^5), (480-207459-B-8-A PDS ^5) and (480-207459-B-8-A SD ^25). 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.

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Client Sample ID: BH3 3-7 FT
Lab Sample ID: 480-207459-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	26	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	74	J	190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	81	J	190	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	110	J	190	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	93	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	62	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Chrysene	100	J	190	41	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	180	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	76	J	190	23	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	140	J	190	27	ug/Kg	1	☼	8270D	Total/NA
Pyrene	150	J	190	22	ug/Kg	1	☼	8270D	Total/NA
Arsenic	3.5		2.2	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	70.8		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.39		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.2		0.22	0.034	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.9		0.56	0.22	mg/Kg	1	☼	6010C	Total/NA
Copper	40.0	F1	1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Lead	73.7		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Manganese	350	B	0.22	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	10.0		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Zinc	279		2.2	0.72	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.019	J	0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH4 1-2 FT
Lab Sample ID: 480-207459-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	420	J	1800	230	ug/Kg	10	☼	8270D	Total/NA
Anthracene	1100	J	1800	450	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	3000		1800	180	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	2800		1800	270	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	2800		1800	290	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2000		1800	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	1700	J	1800	230	ug/Kg	10	☼	8270D	Total/NA
Chrysene	2600		1800	400	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	470	J	1800	320	ug/Kg	10	☼	8270D	Total/NA
Dibenzofuran	240	J	1800	210	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	7100		1800	190	ug/Kg	10	☼	8270D	Total/NA
Fluorene	300	J	1800	210	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1800		1800	220	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	4700		1800	270	ug/Kg	10	☼	8270D	Total/NA
Pyrene	4600		1800	210	ug/Kg	10	☼	8270D	Total/NA
Arsenic	5.1		2.2	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	885		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.40		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.66		0.22	0.034	mg/Kg	1	☼	6010C	Total/NA
Chromium	13.7		0.56	0.22	mg/Kg	1	☼	6010C	Total/NA
Copper	18.7		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Lead	490		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Manganese	495	B	0.22	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	10		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Zinc	394		2.2	0.72	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: BH4 1-2 FT (Continued)
Lab Sample ID: 480-207459-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.13		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH5 3-6 FT
Lab Sample ID: 480-207459-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		2.0	0.40	mg/Kg	1	☼	6010C	Total/NA
Barium	827		0.50	0.11	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.17	J	0.20	0.028	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.58		0.20	0.030	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.6		0.50	0.20	mg/Kg	1	☼	6010C	Total/NA
Copper	16.1		5.0	1.1	mg/Kg	5	☼	6010C	Total/NA
Lead	100		1.0	0.24	mg/Kg	1	☼	6010C	Total/NA
Manganese	464	B	0.20	0.032	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.7		5.0	0.23	mg/Kg	1	☼	6010C	Total/NA
Silver	0.28	J	0.61	0.20	mg/Kg	1	☼	6010C	Total/NA
Zinc	476		2.0	0.65	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.33		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH6 2-4 FT
Lab Sample ID: 480-207459-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	2700	J	3900	500	ug/Kg	20	☼	8270D	Total/NA
Anthracene	2800	J	3900	960	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene	9800		3900	390	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	8200		3900	570	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	11000		3900	620	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5400		3900	410	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	4700		3900	500	ug/Kg	20	☼	8270D	Total/NA
Chrysene	10000		3900	870	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	2100	J	3900	690	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	480	J	3900	460	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	22000		3900	410	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	5300		3900	480	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	13000		3900	570	ug/Kg	20	☼	8270D	Total/NA
Pyrene	14000		3900	460	ug/Kg	20	☼	8270D	Total/NA
Arsenic	4.9		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	4950		3.0	0.66	mg/Kg	5	☼	6010C	Total/NA
Beryllium	0.43		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.98		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Chromium	18.4		0.60	0.24	mg/Kg	1	☼	6010C	Total/NA
Copper	25.6		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	904		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Manganese	583	B	0.24	0.038	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.5		6.0	0.28	mg/Kg	1	☼	6010C	Total/NA
Silver	0.34	J	0.72	0.24	mg/Kg	1	☼	6010C	Total/NA
Zinc	638		2.4	0.77	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.58		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	270	J	1800	230	ug/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH7 1-4 FT (Continued)
Lab Sample ID: 480-207459-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	570	J	1800	450	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	1900		1800	180	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	2000		1800	270	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	2300		1800	290	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1300	J	1800	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	880	J	1800	230	ug/Kg	10	☼	8270D	Total/NA
Chrysene	1800		1800	410	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	380	J	1800	320	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	4000		1800	190	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1100	J	1800	220	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	1900		1800	270	ug/Kg	10	☼	8270D	Total/NA
Pyrene	2700		1800	210	ug/Kg	10	☼	8270D	Total/NA
Arsenic	4.0		2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	62.6		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.31		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.56		0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Chromium	9.8		0.55	0.22	mg/Kg	1	☼	6010C	Total/NA
Copper	16.8		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Lead	115		1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Manganese	425	B	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.7		5.5	0.25	mg/Kg	1	☼	6010C	Total/NA
Zinc	241		2.2	0.70	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.24		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.0	J vs	28	4.8	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.51	J vs B	5.7	0.35	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	890	J	1900	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	790	J	1900	290	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	900	J	1900	310	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	530	J	1900	210	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	500	J	1900	250	ug/Kg	10	☼	8270D	Total/NA
Chrysene	810	J	1900	440	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	1800	J	1900	210	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	450	J	1900	240	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	770	J	1900	290	ug/Kg	10	☼	8270D	Total/NA
Pyrene	1300	J	1900	230	ug/Kg	10	☼	8270D	Total/NA
Arsenic	4.7		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	87.7		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.45		0.24	0.033	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.87		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.0		0.60	0.24	mg/Kg	1	☼	6010C	Total/NA
Copper	22.8		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	154		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Manganese	556	B	0.24	0.038	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.8		6.0	0.27	mg/Kg	1	☼	6010C	Total/NA
Silver	0.35	J	0.71	0.24	mg/Kg	1	☼	6010C	Total/NA
Zinc	331		2.4	0.76	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.46		0.021	0.0048	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	5.9	J vs F1	28	2.0	ug/Kg	1	☼	8260C	Total/NA
Acetone	52	vs F1	28	4.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.27	J vs	5.6	0.27	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.49	J vs B	5.6	0.35	ug/Kg	1	☼	8260C	Total/NA
Anthracene	930	J	1900	470	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	1800	J	1900	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	1700	J	1900	280	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	1700	J	1900	300	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	820	J	1900	200	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	1000	J	1900	250	ug/Kg	10	☼	8270D	Total/NA
Chrysene	1600	J	1900	430	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	4100		1900	200	ug/Kg	10	☼	8270D	Total/NA
Fluorene	290	J	1900	230	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	760	J	1900	240	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	3000		1900	280	ug/Kg	10	☼	8270D	Total/NA
Pyrene	2900		1900	230	ug/Kg	10	☼	8270D	Total/NA
Arsenic	6.0		2.1	0.42	mg/Kg	1	☼	6010C	Total/NA
Barium	73.3		0.52	0.11	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.45		0.21	0.029	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.4		0.21	0.031	mg/Kg	1	☼	6010C	Total/NA
Chromium	13.2		0.52	0.21	mg/Kg	1	☼	6010C	Total/NA
Copper	19.0		1.0	0.22	mg/Kg	1	☼	6010C	Total/NA
Lead	134		1.0	0.25	mg/Kg	1	☼	6010C	Total/NA
Manganese	589	B	0.21	0.033	mg/Kg	1	☼	6010C	Total/NA
Nickel	13.5		5.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.61	J	4.2	0.42	mg/Kg	1	☼	6010C	Total/NA
Silver	0.42	J	0.62	0.21	mg/Kg	1	☼	6010C	Total/NA
Zinc	441		2.1	0.66	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.53		0.020	0.0047	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH10 2-4 FT
Lab Sample ID: 480-207459-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	410	J	1900	280	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	460	J	1900	300	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	230	J	1900	200	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	280	J	1900	240	ug/Kg	10	☼	8270D	Total/NA
Chrysene	440	J	1900	420	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	1100	J	1900	200	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	560	J	1900	280	ug/Kg	10	☼	8270D	Total/NA
Pyrene	700	J	1900	220	ug/Kg	10	☼	8270D	Total/NA
Arsenic	3.6		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	128	F1	0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.24		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.67		0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Chromium	15.8		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Copper	17.7		5.7	1.2	mg/Kg	5	☼	6010C	Total/NA
Lead	185	F1	1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Manganese	505	B F2	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.3		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Zinc	241	F2	2.3	0.73	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH10 2-4 FT (Continued)
Lab Sample ID: 480-207459-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.76		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH3 3-7 FT
Lab Sample ID: 480-207459-1

Date Collected: 04/03/23 08:30
Matrix: Solid

Date Received: 04/03/23 15:17
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	110	U	110	60	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
2-Methylphenol	190	U	190	22	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
3-Methylphenol	360	U	360	28	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
4-Methylphenol	360	U	360	22	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Acenaphthene	190	U	190	27	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Acenaphthylene	**26**	**J**	190	24	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Anthracene	190	U	190	46	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Benzo[a]anthracene	**74**	**J**	190	19	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Benzo[a]pyrene	**81**	**J**	190	27	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Benzo[b]fluoranthene	**110**	**J**	190	29	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Benzo[g,h,i]perylene	**93**	**J**	190	20	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Benzo[k]fluoranthene	**62**	**J**	190	24	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Chrysene	**100**	**J**	190	41	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Dibenz(a,h)anthracene	190	U	190	33	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Dibenzofuran	190	U	190	22	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Fluoranthene	**180**	**J**	190	20	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Fluorene	190	U	190	22	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Hexachlorobenzene	190	U	190	25	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Indeno[1,2,3-cd]pyrene	**76**	**J**	190	23	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Naphthalene	190	U	190	24	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Pentachlorophenol	360	U	360	190	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Phenanthrene	**140**	**J**	190	27	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Phenol	190	U	190	28	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Pyrene	**150**	**J**	190	22	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*54 - 120*	*04/05/23 15:45*	*04/06/23 16:38*	*1*
2-Fluorobiphenyl (Surr)	*88*		*60 - 120*	*04/05/23 15:45*	*04/06/23 16:38*	*1*
2-Fluorophenol (Surr)	*68*		*52 - 120*	*04/05/23 15:45*	*04/06/23 16:38*	*1*
Nitrobenzene-d5 (Surr)	*72*		*53 - 120*	*04/05/23 15:45*	*04/06/23 16:38*	*1*
Phenol-d5 (Surr)	*71*		*54 - 120*	*04/05/23 15:45*	*04/06/23 16:38*	*1*
p-Terphenyl-d14 (Surr)	*86*		*79 - 130*	*04/05/23 15:45*	*04/06/23 16:38*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.5**		2.2	0.45	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Barium	**70.8**		0.56	0.12	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Beryllium	**0.39**		0.22	0.031	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Cadmium	**1.2**		0.22	0.034	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Chromium	**8.9**		0.56	0.22	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Copper	**40.0**	**F1**	1.1	0.23	mg/Kg	☼	04/10/23 14:43	04/11/23 15:35	1
Lead	**73.7**		1.1	0.27	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Manganese	**350**	**B**	0.22	0.036	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Nickel	**10.0**		5.6	0.26	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Selenium	4.5	U	4.5	0.45	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Silver	0.65	U	0.65	0.22	mg/Kg	☼	04/10/23 14:43	04/11/23 15:35	1
Zinc	**279**		2.2	0.72	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1

Client Sample ID: BH3 3-7 FT
Lab Sample ID: 480-207459-1
Date Collected: 04/03/23 08:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 89.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**	**J**	0.022	0.0051	mg/Kg	☼	04/13/23 10:54	04/13/23 13:07	1

Client Sample ID: BH4 1-2 FT
Lab Sample ID: 480-207459-2
Date Collected: 04/03/23 09:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	580	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
2-Methylphenol	1800	U	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
3-Methylphenol	3500	U	3500	280	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
4-Methylphenol	3500	U	3500	210	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Acenaphthene	1800	U	1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Acenaphthylene	**420**	**J**	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Anthracene	**1100**	**J**	1800	450	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Benzo[a]anthracene	**3000**		1800	180	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Benzo[a]pyrene	**2800**		1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Benzo[b]fluoranthene	**2800**		1800	290	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Benzo[g,h,i]perylene	**2000**		1800	190	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Benzo[k]fluoranthene	**1700**	**J**	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Chrysene	**2600**		1800	400	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Dibenz(a,h)anthracene	**470**	**J**	1800	320	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Dibenzofuran	**240**	**J**	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Fluoranthene	**7100**		1800	190	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Fluorene	**300**	**J**	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Hexachlorobenzene	1800	U	1800	240	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Indeno[1,2,3-cd]pyrene	**1800**		1800	220	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Naphthalene	1800	U	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Pentachlorophenol	3500	U	3500	1800	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Phenanthrene	**4700**		1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Phenol	1800	U	1800	280	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Pyrene	**4600**		1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*54 - 120*	*04/05/23 15:45*	*04/06/23 17:03*	*10*
2-Fluorobiphenyl (Surr)	*76*		*60 - 120*	*04/05/23 15:45*	*04/06/23 17:03*	*10*
2-Fluorophenol (Surr)	*66*		*52 - 120*	*04/05/23 15:45*	*04/06/23 17:03*	*10*
Nitrobenzene-d5 (Surr)	*71*		*53 - 120*	*04/05/23 15:45*	*04/06/23 17:03*	*10*
Phenol-d5 (Surr)	*63*		*54 - 120*	*04/05/23 15:45*	*04/06/23 17:03*	*10*
p-Terphenyl-d14 (Surr)	*78*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 17:03*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.1**		2.2	0.45	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Barium	**885**		0.56	0.12	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Beryllium	**0.40**		0.22	0.031	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Cadmium	**0.66**		0.22	0.034	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Chromium	**13.7**		0.56	0.22	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Copper	**18.7**		1.1	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Lead	**490**		1.1	0.27	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1

Client Sample ID: BH4 1-2 FT
Lab Sample ID: 480-207459-2

Date Collected: 04/03/23 09:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**495**	**B**	0.22	0.036	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Nickel	**10**		5.6	0.26	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Selenium	4.5	U	4.5	0.45	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Silver	0.67	U	0.67	0.22	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Zinc	**394**		2.2	0.72	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.022	0.0051	mg/Kg	☼	04/13/23 10:54	04/13/23 13:08	1

Client Sample ID: BH5 3-6 FT
Lab Sample ID: 480-207459-3

Date Collected: 04/03/23 09:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2200	U	2200	1200	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
2-Methylphenol	3700	U	3700	440	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
3-Methylphenol	7200	U	7200	570	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
4-Methylphenol	7200	U	7200	440	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Acenaphthene	3700	U	3700	550	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Acenaphthylene	3700	U	3700	480	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Anthracene	3700	U	3700	920	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Benzo[a]anthracene	3700	U	3700	370	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Benzo[a]pyrene	3700	U	3700	550	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Benzo[b]fluoranthene	3700	U	3700	590	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Benzo[g,h,i]perylene	3700	U	3700	390	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Benzo[k]fluoranthene	3700	U	3700	480	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Chrysene	3700	U	3700	830	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Dibenz(a,h)anthracene	3700	U	3700	650	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Dibenzofuran	3700	U	3700	440	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Fluoranthene	3700	U	3700	390	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Fluorene	3700	U	3700	440	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Hexachlorobenzene	3700	U	3700	500	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Indeno[1,2,3-cd]pyrene	3700	U	3700	460	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Naphthalene	3700	U	3700	480	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Pentachlorophenol	7200	U	7200	3700	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Phenanthrene	3700	U	3700	550	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Phenol	3700	U	3700	570	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Pyrene	3700	U	3700	440	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*04/05/23 15:45*	*04/07/23 11:53*	*20*
2-Fluorobiphenyl (Surr)	*63*		*60 - 120*	*04/05/23 15:45*	*04/07/23 11:53*	*20*
2-Fluorophenol (Surr)	*64*		*52 - 120*	*04/05/23 15:45*	*04/07/23 11:53*	*20*
Nitrobenzene-d5 (Surr)	*63*		*53 - 120*	*04/05/23 15:45*	*04/07/23 11:53*	*20*
Phenol-d5 (Surr)	*45*	*S1-*	*54 - 120*	*04/05/23 15:45*	*04/07/23 11:53*	*20*
p-Terphenyl-d14 (Surr)	*67*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/07/23 11:53*	*20*

Client Sample ID: BH5 3-6 FT
Lab Sample ID: 480-207459-3

Date Collected: 04/03/23 09:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 89.1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.5**		2.0	0.40	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Barium	**827**		0.50	0.11	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Beryllium	**0.17**	**J**	0.20	0.028	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Cadmium	**0.58**		0.20	0.030	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Chromium	**14.6**		0.50	0.20	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Copper	**16.1**		5.0	1.1	mg/Kg	☼	04/07/23 14:36	04/11/23 13:08	5
Lead	**100**		1.0	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Manganese	**464**	**B**	0.20	0.032	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Nickel	**7.7**		5.0	0.23	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Selenium	4.0	U	4.0	0.40	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Silver	**0.28**	**J**	0.61	0.20	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Zinc	**476**		2.0	0.65	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**		0.023	0.0053	mg/Kg	☼	04/13/23 10:54	04/13/23 13:09	1

Client Sample ID: BH6 2-4 FT
Lab Sample ID: 480-207459-4

Date Collected: 04/03/23 10:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2300	U	2300	1300	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
2-Methylphenol	3900	U	3900	460	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
3-Methylphenol	7600	U	7600	600	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
4-Methylphenol	7600	U	7600	460	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Acenaphthene	3900	U	3900	570	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Acenaphthylene	**2700**	**J**	3900	500	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Anthracene	**2800**	**J**	3900	960	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Benzo[a]anthracene	**9800**		3900	390	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Benzo[a]pyrene	**8200**		3900	570	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Benzo[b]fluoranthene	**11000**		3900	620	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Benzo[g,h,i]perylene	**5400**		3900	410	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Benzo[k]fluoranthene	**4700**		3900	500	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Chrysene	**10000**		3900	870	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Dibenz(a,h)anthracene	**2100**	**J**	3900	690	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Dibenzofuran	**480**	**J**	3900	460	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Fluoranthene	**22000**		3900	410	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Fluorene	3900	U	3900	460	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Hexachlorobenzene	3900	U	3900	530	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Indeno[1,2,3-cd]pyrene	**5300**		3900	480	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Naphthalene	3900	U	3900	500	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Pentachlorophenol	7600	U	7600	3900	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Phenanthrene	**13000**		3900	570	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Phenol	3900	U	3900	600	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Pyrene	**14000**		3900	460	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*54 - 120*	*04/05/23 15:45*	*04/06/23 17:54*	*20*

Client Sample ID: BH6 2-4 FT
Lab Sample ID: 480-207459-4

Date Collected: 04/03/23 10:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 86.2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*60 - 120*	*04/05/23 15:45*	*04/06/23 17:54*	*20*
2-Fluorophenol (Surr)	*65*		*52 - 120*	*04/05/23 15:45*	*04/06/23 17:54*	*20*
Nitrobenzene-d5 (Surr)	*70*		*53 - 120*	*04/05/23 15:45*	*04/06/23 17:54*	*20*
Phenol-d5 (Surr)	*46*	*S1-*	*54 - 120*	*04/05/23 15:45*	*04/06/23 17:54*	*20*
p-Terphenyl-d14 (Surr)	*67*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 17:54*	*20*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.9**		2.4	0.48	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Barium	**4950**		3.0	0.66	mg/Kg	☼	04/07/23 14:36	04/11/23 13:12	5
Beryllium	**0.43**		0.24	0.034	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Cadmium	**0.98**		0.24	0.036	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Chromium	**18.4**		0.60	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Copper	**25.6**		1.2	0.25	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Lead	**904**		1.2	0.29	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Manganese	**583**	**B**	0.24	0.038	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Nickel	**9.5**		6.0	0.28	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Selenium	4.8	U	4.8	0.48	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Silver	**0.34**	**J**	0.72	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Zinc	**638**		2.4	0.77	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.58**		0.022	0.0050	mg/Kg	☼	04/13/23 10:54	04/13/23 13:10	1

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5

Date Collected: 04/03/23 10:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	590	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
2-Methylphenol	1800	U	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
3-Methylphenol	3500	U	3500	280	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
4-Methylphenol	3500	U	3500	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Acenaphthene	1800	U	1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Acenaphthylene	**270**	**J**	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Anthracene	**570**	**J**	1800	450	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Benzo[a]anthracene	**1900**		1800	180	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Benzo[a]pyrene	**2000**		1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Benzo[b]fluoranthene	**2300**		1800	290	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Benzo[g,h,i]perylene	**1300**	**J**	1800	190	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Benzo[k]fluoranthene	**880**	**J**	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Chrysene	**1800**		1800	410	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Dibenz(a,h)anthracene	**380**	**J**	1800	320	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Dibenzofuran	1800	U	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Fluoranthene	**4000**		1800	190	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Fluorene	1800	U	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Hexachlorobenzene	1800	U	1800	250	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Indeno[1,2,3-cd]pyrene	**1100**	**J**	1800	220	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5
Date Collected: 04/03/23 10:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1800	U	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Pentachlorophenol	3500	U	3500	1800	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Phenanthrene	**1900**		1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Phenol	1800	U	1800	280	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Pyrene	**2700**		1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*54 - 120*	*04/05/23 15:45*	*04/06/23 18:19*	*10*
2-Fluorobiphenyl (Surr)	*75*		*60 - 120*	*04/05/23 15:45*	*04/06/23 18:19*	*10*
2-Fluorophenol (Surr)	*71*		*52 - 120*	*04/05/23 15:45*	*04/06/23 18:19*	*10*
Nitrobenzene-d5 (Surr)	*72*		*53 - 120*	*04/05/23 15:45*	*04/06/23 18:19*	*10*
Phenol-d5 (Surr)	*64*		*54 - 120*	*04/05/23 15:45*	*04/06/23 18:19*	*10*
p-Terphenyl-d14 (Surr)	*62*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 18:19*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.0**		2.2	0.44	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Barium	**62.6**		0.55	0.12	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Beryllium	**0.31**		0.22	0.031	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Cadmium	**0.56**		0.22	0.033	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Chromium	**9.8**		0.55	0.22	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Copper	**16.8**		1.1	0.23	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Lead	**115**		1.1	0.26	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Manganese	**425**	**B**	0.22	0.035	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Nickel	**8.7**		5.5	0.25	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Selenium	4.4	U	4.4	0.44	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Silver	0.66	U	0.66	0.22	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Zinc	**241**		2.2	0.70	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**		0.022	0.0051	mg/Kg	☼	04/13/23 10:54	04/13/23 13:12	1

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6
Date Collected: 04/03/23 11:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.7	U vs	5.7	0.41	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,1-Dichloroethane	5.7	U vs	5.7	0.69	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,1-Dichloroethene	5.7	U vs	5.7	0.69	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,2,4-Trimethylbenzene	5.7	U vs	5.7	1.1	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,2-Dichlorobenzene	5.7	U vs	5.7	0.44	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,2-Dichloroethane	5.7	U vs	5.7	0.28	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,3,5-Trimethylbenzene	5.7	U vs	5.7	0.37	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,3-Dichlorobenzene	5.7	U vs	5.7	0.29	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,4-Dichlorobenzene	5.7	U vs	5.7	0.79	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,4-Dioxane	110	U vs	110	25	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
2-Butanone (MEK)	28	U vs	28	2.1	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Acetone	**9.0**	**J vs**	28	4.8	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6
Date Collected: 04/03/23 11:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.7	U vs	5.7	0.28	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Carbon tetrachloride	5.7	U vs	5.7	0.55	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Chlorobenzene	5.7	U vs	5.7	0.75	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Chloroform	**0.51**	**J vs B**	5.7	0.35	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
cis-1,2-Dichloroethene	5.7	U vs	5.7	0.73	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Ethylbenzene	5.7	U vs	5.7	0.39	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Methyl tert-butyl ether	5.7	U vs	5.7	0.56	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Methylene Chloride	5.7	U vs	5.7	2.6	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
n-Butylbenzene	5.7	U vs	5.7	0.49	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
N-Propylbenzene	5.7	U vs	5.7	0.45	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
sec-Butylbenzene	5.7	U vs	5.7	0.49	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
tert-Butylbenzene	5.7	U vs	5.7	0.59	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Tetrachloroethene	5.7	U vs	5.7	0.76	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Toluene	5.7	U vs	5.7	0.43	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
trans-1,2-Dichloroethene	5.7	U vs	5.7	0.59	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Trichloroethene	5.7	U vs	5.7	1.2	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Vinyl chloride	5.7	U vs	5.7	0.69	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Xylenes, Total	11	U vs	11	0.95	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*04/04/23 17:33*	*04/04/23 23:16*	*1*
4-Bromofluorobenzene (Surr)	*106*		*72 - 126*	*04/04/23 17:33*	*04/04/23 23:16*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*04/04/23 17:33*	*04/04/23 23:16*	*1*
Toluene-d8 (Surr)	*92*		*71 - 125*	*04/04/23 17:33*	*04/04/23 23:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	630	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
2-Methylphenol	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
3-Methylphenol	3800	U	3800	300	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
4-Methylphenol	3800	U	3800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Acenaphthene	1900	U	1900	290	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Acenaphthylene	1900	U	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Anthracene	1900	U	1900	480	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Benzo[a]anthracene	**890**	**J**	1900	190	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Benzo[a]pyrene	**790**	**J**	1900	290	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Benzo[b]fluoranthene	**900**	**J**	1900	310	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Benzo[g,h,i]perylene	**530**	**J**	1900	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Benzo[k]fluoranthene	**500**	**J**	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Chrysene	**810**	**J**	1900	440	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Dibenz(a,h)anthracene	1900	U	1900	340	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Dibenzofuran	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Fluoranthene	**1800**	**J**	1900	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Fluorene	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Hexachlorobenzene	1900	U	1900	260	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Indeno[1,2,3-cd]pyrene	**450**	**J**	1900	240	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Naphthalene	1900	U	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Pentachlorophenol	3800	U	3800	1900	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Phenanthrene	**770**	**J**	1900	290	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Phenol	1900	U	1900	300	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6

Date Collected: 04/03/23 11:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**1300**	**J**	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*54 - 120*	*04/05/23 15:45*	*04/06/23 18:45*	*10*
2-Fluorobiphenyl (Surr)	*65*		*60 - 120*	*04/05/23 15:45*	*04/06/23 18:45*	*10*
2-Fluorophenol (Surr)	*64*		*52 - 120*	*04/05/23 15:45*	*04/06/23 18:45*	*10*
Nitrobenzene-d5 (Surr)	*59*		*53 - 120*	*04/05/23 15:45*	*04/06/23 18:45*	*10*
Phenol-d5 (Surr)	*61*		*54 - 120*	*04/05/23 15:45*	*04/06/23 18:45*	*10*
p-Terphenyl-d14 (Surr)	*67*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 18:45*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**		2.4	0.48	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Barium	**87.7**		0.60	0.13	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Beryllium	**0.45**		0.24	0.033	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Cadmium	**0.87**		0.24	0.036	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Chromium	**16.0**		0.60	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Copper	**22.8**		1.2	0.25	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Lead	**154**		1.2	0.29	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Manganese	**556**	**B**	0.24	0.038	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Nickel	**12.8**		6.0	0.27	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Selenium	4.8	U	4.8	0.48	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Silver	**0.35**	**J**	0.71	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Zinc	**331**		2.4	0.76	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.46**		0.021	0.0048	mg/Kg	☼	04/13/23 10:54	04/13/23 13:13	1

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7

Date Collected: 04/03/23 11:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.6	U vs	5.6	0.41	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,1-Dichloroethane	5.6	U vs	5.6	0.68	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,1-Dichloroethene	5.6	U vs	5.6	0.69	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,2,4-Trimethylbenzene	5.6	U vs F1	5.6	1.1	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,2-Dichlorobenzene	5.6	U vs F1	5.6	0.44	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,2-Dichloroethane	5.6	U vs	5.6	0.28	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,3,5-Trimethylbenzene	5.6	U vs F1	5.6	0.36	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,3-Dichlorobenzene	5.6	U vs F1	5.6	0.29	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,4-Dichlorobenzene	5.6	U vs F1	5.6	0.78	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,4-Dioxane	110	U vs F1	110	24	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
2-Butanone (MEK)	**5.9**	**J vs F1**	28	2.0	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Acetone	**52**	**vs F1**	28	4.7	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Benzene	**0.27**	**J vs**	5.6	0.27	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Carbon tetrachloride	5.6	U vs	5.6	0.54	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Chlorobenzene	5.6	U vs F1	5.6	0.74	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Chloroform	**0.49**	**J vs B**	5.6	0.35	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7

Date Collected: 04/03/23 11:30
Matrix: Solid

Date Received: 04/03/23 15:17
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	5.6	U vs	5.6	0.72	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Ethylbenzene	5.6	U vs F1	5.6	0.39	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Methyl tert-butyl ether	5.6	U vs	5.6	0.55	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Methylene Chloride	5.6	U vs	5.6	2.6	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
n-Butylbenzene	5.6	U vs F1	5.6	0.49	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
N-Propylbenzene	5.6	U vs F1	5.6	0.45	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
sec-Butylbenzene	5.6	U vs F1	5.6	0.49	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
tert-Butylbenzene	5.6	U vs F1	5.6	0.58	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Tetrachloroethene	5.6	U vs F1	5.6	0.75	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Toluene	5.6	U vs F1	5.6	0.42	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
trans-1,2-Dichloroethene	5.6	U vs F1	5.6	0.58	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Trichloroethene	5.6	U vs F1	5.6	1.2	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Vinyl chloride	5.6	U vs	5.6	0.68	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Xylenes, Total	11	U vs F1	11	0.94	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*	*04/04/23 17:33*	*04/04/23 23:40*	*1*
4-Bromofluorobenzene (Surr)	*106*		*72 - 126*	*04/04/23 17:33*	*04/04/23 23:40*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*04/04/23 17:33*	*04/04/23 23:40*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*04/04/23 17:33*	*04/04/23 23:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	620	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
2-Methylphenol	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
3-Methylphenol	3700	U	3700	290	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
4-Methylphenol	3700	U	3700	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Acenaphthene	1900	U	1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Acenaphthylene	1900	U	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Anthracene	**930**	**J**	1900	470	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Benzo[a]anthracene	**1800**	**J**	1900	190	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Benzo[a]pyrene	**1700**	**J**	1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Benzo[b]fluoranthene	**1700**	**J**	1900	300	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Benzo[g,h,i]perylene	**820**	**J**	1900	200	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Benzo[k]fluoranthene	**1000**	**J**	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Chrysene	**1600**	**J**	1900	430	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Dibenz(a,h)anthracene	1900	U	1900	340	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Dibenzofuran	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Fluoranthene	**4100**		1900	200	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Fluorene	**290**	**J**	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Hexachlorobenzene	1900	U	1900	260	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Indeno[1,2,3-cd]pyrene	**760**	**J**	1900	240	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Naphthalene	1900	U	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Pentachlorophenol	3700	U	3700	1900	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Phenanthrene	**3000**		1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Phenol	1900	U	1900	290	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Pyrene	**2900**		1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*	*S1-*	*54 - 120*	*04/05/23 15:45*	*04/06/23 19:10*	*10*

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7

Date Collected: 04/03/23 11:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 87.2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*60 - 120*	*04/05/23 15:45*	*04/06/23 19:10*	*10*
2-Fluorophenol (Surr)	*61*		*52 - 120*	*04/05/23 15:45*	*04/06/23 19:10*	*10*
Nitrobenzene-d5 (Surr)	*65*		*53 - 120*	*04/05/23 15:45*	*04/06/23 19:10*	*10*
Phenol-d5 (Surr)	*59*		*54 - 120*	*04/05/23 15:45*	*04/06/23 19:10*	*10*
p-Terphenyl-d14 (Surr)	*63*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 19:10*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.0**		2.1	0.42	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Barium	**73.3**		0.52	0.11	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Beryllium	**0.45**		0.21	0.029	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Cadmium	**1.4**		0.21	0.031	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Chromium	**13.2**		0.52	0.21	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Copper	**19.0**		1.0	0.22	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Lead	**134**		1.0	0.25	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Manganese	**589**	**B**	0.21	0.033	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Nickel	**13.5**		5.2	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Selenium	**0.61**	**J**	4.2	0.42	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Silver	**0.42**	**J**	0.62	0.21	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Zinc	**441**		2.1	0.66	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.53**		0.020	0.0047	mg/Kg	☼	04/13/23 10:54	04/13/23 13:14	1

Client Sample ID: BH10 2-4 FT
Lab Sample ID: 480-207459-8

Date Collected: 04/03/23 12:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	610	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
2-Methylphenol	1900	U	1900	220	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
3-Methylphenol	3700	U	3700	290	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
4-Methylphenol	3700	U	3700	220	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Acenaphthene	1900	U	1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Acenaphthylene	1900	U	1900	240	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Anthracene	1900	U	1900	470	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Benzo[a]anthracene	1900	U	1900	190	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Benzo[a]pyrene	**410**	**J**	1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Benzo[b]fluoranthene	**460**	**J**	1900	300	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Benzo[g,h,i]perylene	**230**	**J**	1900	200	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Benzo[k]fluoranthene	**280**	**J**	1900	240	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Chrysene	**440**	**J**	1900	420	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Dibenz(a,h)anthracene	1900	U	1900	330	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Dibenzofuran	1900	U	1900	220	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Fluoranthene	**1100**	**J**	1900	200	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Fluorene	1900	U	1900	220	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Hexachlorobenzene	1900	U	1900	260	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Indeno[1,2,3-cd]pyrene	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10

Client Sample ID: BH10 2-4 FT
Lab Sample ID: 480-207459-8

Date Collected: 04/03/23 12:00
Matrix: Solid

Date Received: 04/03/23 15:17
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1900	U	1900	240	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Pentachlorophenol	3700	U	3700	1900	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Phenanthrene	**560**	**J**	1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Phenol	1900	U	1900	290	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Pyrene	**700**	**J**	1900	220	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*54 - 120*	*04/05/23 15:45*	*04/06/23 19:35*	*10*
2-Fluorobiphenyl (Surr)	*65*		*60 - 120*	*04/05/23 15:45*	*04/06/23 19:35*	*10*
2-Fluorophenol (Surr)	*66*		*52 - 120*	*04/05/23 15:45*	*04/06/23 19:35*	*10*
Nitrobenzene-d5 (Surr)	*63*		*53 - 120*	*04/05/23 15:45*	*04/06/23 19:35*	*10*
Phenol-d5 (Surr)	*54*		*54 - 120*	*04/05/23 15:45*	*04/06/23 19:35*	*10*
p-Terphenyl-d14 (Surr)	*61*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 19:35*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.6**		2.3	0.46	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Barium	**128**	**F1**	0.57	0.13	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Beryllium	**0.24**		0.23	0.032	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Cadmium	**0.67**		0.23	0.034	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Chromium	**15.8**		0.57	0.23	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Copper	**17.7**		5.7	1.2	mg/Kg	☼	04/07/23 14:36	04/11/23 12:33	5
Lead	**185**	**F1**	1.1	0.27	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Manganese	**505**	**B F2**	0.23	0.037	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Nickel	**7.3**		5.7	0.26	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Selenium	4.6	U	4.6	0.46	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Silver	0.69	U	0.69	0.23	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Zinc	**241**	**F2**	2.3	0.73	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.76**		0.022	0.0050	mg/Kg	☼	04/13/23 10:54	04/13/23 13:16	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)
480-207459-6	BH8 2-4 FT	101	106	106	92
480-207459-7	BH9 2-4 FT	98	106	106	93
480-207459-7 MS	BH9 2-4 FT	86	104	103	95
480-207459-7 MSD	BH9 2-4 FT	86	106	103	95
LCS 480-663910/1-A	Lab Control Sample	97	104	106	94
MB 480-663910/2-A	Method Blank	97	107	106	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
480-207459-1	BH3 3-7 FT	72	88	68	72	71	86
480-207459-2	BH4 1-2 FT	64	76	66	71	63	78 S1-
480-207459-3	BH5 3-6 FT	0 S1-	63	64	63	45 S1-	67 S1-
480-207459-4	BH6 2-4 FT	79	66	65	70	46 S1-	67 S1-
480-207459-5	BH7 1-4 FT	72	75	71	72	64	62 S1-
480-207459-6	BH8 2-4 FT	69	65	64	59	61	67 S1-
480-207459-7	BH9 2-4 FT	52 S1-	67	61	65	59	63 S1-
480-207459-8	BH10 2-4 FT	70	65	66	63	54	61 S1-
LCS 480-664077/2-A	Lab Control Sample	83	79	65	70	66	90
MB 480-664077/1-A	Method Blank	72	77	68	67	71	100

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 480-663910/2-A
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 663910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.96	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.32	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,4-Dioxane	100	U	100	22	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Acetone	25	U	25	4.2	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Benzene	5.0	U	5.0	0.25	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Chloroform	0.457	J	5.0	0.31	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
n-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
N-Propylbenzene	5.0	U	5.0	0.40	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
sec-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
tert-Butylbenzene	5.0	U	5.0	0.52	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Toluene	5.0	U	5.0	0.38	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Xylenes, Total	10	U	10	0.84	ug/Kg		04/04/23 17:33	04/04/23 21:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*	*04/04/23 17:33*	*04/04/23 21:14*	*1*
4-Bromofluorobenzene (Surr)	*107*		*72 - 126*	*04/04/23 17:33*	*04/04/23 21:14*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*04/04/23 17:33*	*04/04/23 21:14*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*04/04/23 17:33*	*04/04/23 21:14*	*1*

Lab Sample ID: LCS 480-663910/1-A
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	56.9		ug/Kg		114	77 - 121
1,1-Dichloroethane	50.0	54.1		ug/Kg		108	73 - 126
1,1-Dichloroethene	50.0	54.2		ug/Kg		108	59 - 125
1,2,4-Trimethylbenzene	50.0	44.5		ug/Kg		89	74 - 120
1,2-Dichlorobenzene	50.0	42.9		ug/Kg		86	75 - 120
1,2-Dichloroethane	50.0	48.3		ug/Kg		97	77 - 122

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

Lab Sample ID: LCS 480-663910/1-A
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	50.0	46.1		ug/Kg		92	74 - 120
1,3-Dichlorobenzene	50.0	44.2		ug/Kg		88	74 - 120
1,4-Dichlorobenzene	50.0	43.6		ug/Kg		87	73 - 120
1,4-Dioxane	1000	885		ug/Kg		89	64 - 124
2-Butanone (MEK)	250	254		ug/Kg		102	70 - 134
Acetone	250	234		ug/Kg		94	61 - 137
Benzene	50.0	53.7		ug/Kg		107	79 - 127
Carbon tetrachloride	50.0	59.9		ug/Kg		120	75 - 135
Chlorobenzene	50.0	46.1		ug/Kg		92	76 - 124
Chloroform	50.0	51.5		ug/Kg		103	80 - 120
cis-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	81 - 120
Ethylbenzene	50.0	47.5		ug/Kg		95	80 - 120
Methyl tert-butyl ether	50.0	52.9		ug/Kg		106	63 - 125
Methylene Chloride	50.0	53.9		ug/Kg		108	61 - 127
n-Butylbenzene	50.0	46.9		ug/Kg		94	70 - 120
N-Propylbenzene	50.0	46.0		ug/Kg		92	70 - 130
sec-Butylbenzene	50.0	47.1		ug/Kg		94	74 - 120
tert-Butylbenzene	50.0	46.8		ug/Kg		94	73 - 120
Tetrachloroethene	50.0	50.4		ug/Kg		101	74 - 122
Toluene	50.0	47.6		ug/Kg		95	74 - 128
trans-1,2-Dichloroethene	50.0	55.8		ug/Kg		112	78 - 126
Trichloroethene	50.0	55.3		ug/Kg		111	77 - 129
Vinyl chloride	50.0	60.0		ug/Kg		120	61 - 133
Xylenes, Total	100	95.6		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*
Dibromofluoromethane (Surr)	*106*		*60 - 140*
Toluene-d8 (Surr)	*94*		*71 - 125*

Lab Sample ID: 480-207459-7 MS
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: BH9 2-4 FT
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	5.6	U vs	56.8	51.5	vs	ug/Kg	☼	91	77 - 121
1,1-Dichloroethane	5.6	U vs	56.8	52.8	vs	ug/Kg	☼	93	73 - 126
1,1-Dichloroethene	5.6	U vs	56.8	47.8	vs	ug/Kg	☼	84	59 - 125
1,2,4-Trimethylbenzene	5.6	U vs F1	56.8	33.3	vs F1	ug/Kg	☼	59	74 - 120
1,2-Dichlorobenzene	5.6	U vs F1	56.8	31.2	vs F1	ug/Kg	☼	55	75 - 120
1,2-Dichloroethane	5.6	U vs	56.8	44.4	vs	ug/Kg	☼	78	77 - 122
1,3,5-Trimethylbenzene	5.6	U vs F1	56.8	34.3	vs F1	ug/Kg	☼	61	74 - 120
1,3-Dichlorobenzene	5.6	U vs F1	56.8	30.7	vs F1	ug/Kg	☼	54	74 - 120
1,4-Dichlorobenzene	5.6	U vs F1	56.8	29.8	vs F1	ug/Kg	☼	53	73 - 120
1,4-Dioxane	110	U vs F1	1140	652	vs F1	ug/Kg	☼	57	64 - 124
2-Butanone (MEK)	5.9	J vs F1	284	171	vs F1	ug/Kg	☼	58	70 - 134
Acetone	52	vs F1	284	187	vs F1	ug/Kg	☼	48	61 - 137

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

Lab Sample ID: 480-207459-7 MS
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: BH9 2-4 FT
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.27	J vs	56.8	50.7	vs	ug/Kg	☼	89	79 - 127
Carbon tetrachloride	5.6	U vs	56.8	49.7	vs	ug/Kg	☼	88	75 - 135
Chlorobenzene	5.6	U vs F1	56.8	38.6	vs F1	ug/Kg	☼	68	76 - 124
Chloroform	0.49	J vs B	56.8	51.1	vs	ug/Kg	☼	89	80 - 120
cis-1,2-Dichloroethene	5.6	U vs	56.8	48.6	vs	ug/Kg	☼	86	80 - 120
Ethylbenzene	5.6	U vs F1	56.8	38.2	vs F1	ug/Kg	☼	67	80 - 120
Methyl tert-butyl ether	5.6	U vs	56.8	49.8	vs	ug/Kg	☼	88	63 - 125
Methylene Chloride	5.6	U vs	56.8	52.8	vs	ug/Kg	☼	93	61 - 127
n-Butylbenzene	5.6	U vs F1	56.8	25.9	vs F1	ug/Kg	☼	46	70 - 120
N-Propylbenzene	5.6	U vs F1	56.8	32.1	vs F1	ug/Kg	☼	57	70 - 130
sec-Butylbenzene	5.6	U vs F1	56.8	30.2	vs F1	ug/Kg	☼	53	74 - 120
tert-Butylbenzene	5.6	U vs F1	56.8	33.5	vs F1	ug/Kg	☼	59	73 - 120
Tetrachloroethene	5.6	U vs F1	56.8	38.4	vs F1	ug/Kg	☼	68	74 - 122
Toluene	5.6	U vs F1	56.8	41.5	vs F1	ug/Kg	☼	73	74 - 128
trans-1,2-Dichloroethene	5.6	U vs F1	56.8	44.9	vs	ug/Kg	☼	79	78 - 126
Trichloroethene	5.6	U vs F1	56.8	46.3	vs	ug/Kg	☼	82	77 - 129
Vinyl chloride	5.6	U vs	56.8	50.8	vs	ug/Kg	☼	90	61 - 133
Xylenes, Total	11	U vs F1	114	77.6	vs F1	ug/Kg	☼	68	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*64 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*95*		*71 - 125*

Lab Sample ID: 480-207459-7 MSD
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: BH9 2-4 FT
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	5.6	U vs	56.8	49.5	vs	ug/Kg	☼	87	77 - 121	4	30
1,1-Dichloroethane	5.6	U vs	56.8	51.4	vs	ug/Kg	☼	91	73 - 126	3	30
1,1-Dichloroethene	5.6	U vs	56.8	39.8	vs	ug/Kg	☼	70	59 - 125	18	30
1,2,4-Trimethylbenzene	5.6	U vs F1	56.8	35.1	vs F1	ug/Kg	☼	62	74 - 120	5	30
1,2-Dichlorobenzene	5.6	U vs F1	56.8	33.7	vs F1	ug/Kg	☼	59	75 - 120	8	30
1,2-Dichloroethane	5.6	U vs	56.8	45.2	vs	ug/Kg	☼	80	77 - 122	2	30
1,3,5-Trimethylbenzene	5.6	U vs F1	56.8	36.4	vs F1	ug/Kg	☼	64	74 - 120	6	30
1,3-Dichlorobenzene	5.6	U vs F1	56.8	31.2	vs F1	ug/Kg	☼	55	74 - 120	2	30
1,4-Dichlorobenzene	5.6	U vs F1	56.8	30.1	vs F1	ug/Kg	☼	53	73 - 120	1	30
1,4-Dioxane	110	U vs F1	1140	675	F1	ug/Kg	☼	59	64 - 124	3	30
2-Butanone (MEK)	5.9	J vs F1	284	180	vs F1	ug/Kg	☼	61	70 - 134	5	30
Acetone	52	vs F1	284	182	vs F1	ug/Kg	☼	46	61 - 137	3	30
Benzene	0.27	J vs	56.8	49.7	vs	ug/Kg	☼	88	79 - 127	2	30
Carbon tetrachloride	5.6	U vs	56.8	47.3	vs	ug/Kg	☼	83	75 - 135	5	30
Chlorobenzene	5.6	U vs F1	56.8	39.7	vs F1	ug/Kg	☼	70	76 - 124	3	30
Chloroform	0.49	J vs B	56.8	50.6	vs	ug/Kg	☼	88	80 - 120	1	30
cis-1,2-Dichloroethene	5.6	U vs	56.8	46.8	vs	ug/Kg	☼	82	80 - 120	4	30
Ethylbenzene	5.6	U vs F1	56.8	38.3	vs F1	ug/Kg	☼	67	80 - 120	0	30

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

Lab Sample ID: 480-207459-7 MSD
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: BH9 2-4 FT
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether	5.6	U vs	56.8	50.5	vs	ug/Kg	☼	89	63 - 125	1	30
Methylene Chloride	5.6	U vs	56.8	52.8	vs	ug/Kg	☼	93	61 - 127	0	30
n-Butylbenzene	5.6	U vs F1	56.8	24.4	vs F1	ug/Kg	☼	43	70 - 120	6	30
N-Propylbenzene	5.6	U vs F1	56.8	31.7	vs F1	ug/Kg	☼	56	70 - 130	1	30
sec-Butylbenzene	5.6	U vs F1	56.8	30.6	vs F1	ug/Kg	☼	54	74 - 120	2	30
tert-Butylbenzene	5.6	U vs F1	56.8	35.9	vs F1	ug/Kg	☼	63	73 - 120	7	30
Tetrachloroethene	5.6	U vs F1	56.8	37.1	vs F1	ug/Kg	☼	65	74 - 122	3	30
Toluene	5.6	U vs F1	56.8	41.1	vs F1	ug/Kg	☼	72	74 - 128	1	30
trans-1,2-Dichloroethene	5.6	U vs F1	56.8	41.7	vs F1	ug/Kg	☼	73	78 - 126	8	30
Trichloroethene	5.6	U vs F1	56.8	43.4	vs F1	ug/Kg	☼	76	77 - 129	6	30
Vinyl chloride	5.6	U vs	56.8	45.2	vs	ug/Kg	☼	80	61 - 133	12	30
Xylenes, Total	11	U vs F1	114	80.8	vs	ug/Kg	☼	71	70 - 130	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*64 - 126*
4-Bromofluorobenzene (Surr)	*106*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*95*		*71 - 125*

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

Lab Sample ID: MB 480-664077/1-A
Matrix: Solid
Analysis Batch: 663968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	98	U	98	54	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
2-Methylphenol	170	U	170	20	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
3-Methylphenol	330	U	330	26	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
4-Methylphenol	330	U	330	20	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Acenaphthene	170	U	170	25	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Acenaphthylene	170	U	170	22	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Anthracene	170	U	170	41	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Chrysene	170	U	170	37	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Dibenzofuran	170	U	170	20	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Fluoranthene	170	U	170	18	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Fluorene	170	U	170	20	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Hexachlorobenzene	170	U	170	23	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Naphthalene	170	U	170	22	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Pentachlorophenol	330	U	330	170	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Phenanthrene	170	U	170	25	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Phenol	170	U	170	26	ug/Kg		04/05/23 15:45	04/06/23 11:15	1

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

Lab Sample ID: MB 480-664077/1-A
Matrix: Solid
Analysis Batch: 663968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	170	U	170	20	ug/Kg		04/05/23 15:45	04/06/23 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*54 - 120*	*04/05/23 15:45*	*04/06/23 11:15*	*1*
2-Fluorobiphenyl (Surr)	*77*		*60 - 120*	*04/05/23 15:45*	*04/06/23 11:15*	*1*
2-Fluorophenol (Surr)	*68*		*52 - 120*	*04/05/23 15:45*	*04/06/23 11:15*	*1*
Nitrobenzene-d5 (Surr)	*67*		*53 - 120*	*04/05/23 15:45*	*04/06/23 11:15*	*1*
Phenol-d5 (Surr)	*71*		*54 - 120*	*04/05/23 15:45*	*04/06/23 11:15*	*1*
p-Terphenyl-d14 (Surr)	*100*		*79 - 130*	*04/05/23 15:45*	*04/06/23 11:15*	*1*

Lab Sample ID: LCS 480-664077/2-A
Matrix: Solid
Analysis Batch: 663968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1650	692		ug/Kg		42	23 - 120
2-Methylphenol	1650	1230		ug/Kg		74	54 - 120
3-Methylphenol	1650	1250		ug/Kg		76	55 - 120
4-Methylphenol	1650	1250		ug/Kg		75	55 - 120
Acenaphthene	1650	1320		ug/Kg		80	62 - 120
Acenaphthylene	1650	1350		ug/Kg		82	58 - 121
Anthracene	1650	1500		ug/Kg		91	62 - 120
Benzo[a]anthracene	1650	1470		ug/Kg		89	65 - 120
Benzo[a]pyrene	1650	1500		ug/Kg		91	64 - 120
Benzo[b]fluoranthene	1650	1450		ug/Kg		88	64 - 120
Benzo[g,h,i]perylene	1650	1570		ug/Kg		95	45 - 145
Benzo[k]fluoranthene	1650	1650		ug/Kg		100	65 - 120
Chrysene	1650	1320		ug/Kg		80	64 - 120
Dibenz(a,h)anthracene	1650	1540		ug/Kg		93	54 - 132
Dibenzofuran	1650	1330		ug/Kg		80	63 - 120
Fluoranthene	1650	1290		ug/Kg		78	62 - 120
Fluorene	1650	1270		ug/Kg		77	63 - 120
Hexachlorobenzene	1650	1520		ug/Kg		92	60 - 120
Indeno[1,2,3-cd]pyrene	1650	1550		ug/Kg		94	56 - 134
Naphthalene	1650	1290		ug/Kg		78	55 - 120
Pentachlorophenol	3310	2800		ug/Kg		85	51 - 120
Phenanthrene	1650	1440		ug/Kg		87	60 - 120
Phenol	1650	1190		ug/Kg		72	53 - 120
Pyrene	1650	1640		ug/Kg		99	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*83*		*54 - 120*
2-Fluorobiphenyl (Surr)	*79*		*60 - 120*
2-Fluorophenol (Surr)	*65*		*52 - 120*
Nitrobenzene-d5 (Surr)	*70*		*53 - 120*
Phenol-d5 (Surr)	*66*		*54 - 120*
p-Terphenyl-d14 (Surr)	*90*		*79 - 130*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-664187/1-A
Matrix: Solid
Analysis Batch: 664493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9	U	1.9	0.39	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Barium	0.49	U	0.49	0.11	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Beryllium	0.19	U	0.19	0.027	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Cadmium	0.19	U	0.19	0.029	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Chromium	0.49	U	0.49	0.19	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Copper	0.97	U	0.97	0.20	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Lead	0.97	U	0.97	0.23	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Manganese	0.0349	J	0.19	0.031	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Nickel	4.9	U	4.9	0.22	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Selenium	3.9	U	3.9	0.39	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Zinc	1.9	U	1.9	0.62	mg/Kg		04/06/23 14:44	04/07/23 18:42	1

Lab Sample ID: LCSSRM 480-664187/2-A
Matrix: Solid
Analysis Batch: 664493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664187

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	103.5		mg/Kg		80.2	60.9 - 113.2
Barium	169	151.2		mg/Kg		89.5	68.6 - 114.2
Beryllium	137	102.5		mg/Kg		74.9	66.3 - 110.2
Cadmium	227	177.5		mg/Kg		78.2	64.8 - 110.1
Chromium	115	93.90		mg/Kg		81.7	62.4 - 115.7
Copper	76.0	73.41		mg/Kg		96.6	69.5 - 115.8
Lead	74.8	82.99		mg/Kg		110.9	67.0 - 128.9
Manganese	400	330.7		mg/Kg		82.7	70.5 - 115.8
Nickel	282	257.3		mg/Kg		91.2	62.1 - 114.9
Selenium	246	190.6		mg/Kg		77.5	60.2 - 114.6
Zinc	401	310.7		mg/Kg		77.5	62.8 - 116.7

Lab Sample ID: MB 480-664352/1-A
Matrix: Solid
Analysis Batch: 664595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9	U	1.9	0.38	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Barium	0.48	U	0.48	0.10	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Beryllium	0.19	U	0.19	0.027	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Cadmium	0.19	U	0.19	0.029	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Chromium	0.48	U	0.48	0.19	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Copper	0.95	U	0.95	0.20	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Lead	0.95	U	0.95	0.23	mg/Kg		04/07/23 14:36	04/10/23 12:54	1

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

Lab Sample ID: MB 480-664352/1-A
Matrix: Solid
Analysis Batch: 664595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0343	J	0.19	0.030	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Nickel	4.8	U	4.8	0.22	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Selenium	3.8	U	3.8	0.38	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Silver	0.57	U	0.57	0.19	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Zinc	1.9	U	1.9	0.61	mg/Kg		04/07/23 14:36	04/10/23 12:54	1

Lab Sample ID: LCSSRM 480-664352/2-A
Matrix: Solid
Analysis Batch: 664595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664352

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	97.52		mg/Kg		75.6	60.9 - 113.2
Barium	169	142.3		mg/Kg		84.2	68.6 - 114.2
Beryllium	137	105.3		mg/Kg		76.9	66.3 - 110.2
Cadmium	227	172.2		mg/Kg		75.9	64.8 - 110.1
Chromium	115	90.81		mg/Kg		79.0	62.4 - 115.7
Copper	76.0	59.57		mg/Kg		78.4	69.5 - 115.8
Lead	74.8	80.09		mg/Kg		107.1	67.0 - 128.9
Manganese	400	344.5		mg/Kg		86.1	70.5 - 115.8
Nickel	282	251.6		mg/Kg		89.2	62.1 - 114.9
Selenium	246	183.6		mg/Kg		74.6	60.2 - 114.6
Silver	87.5	66.52		mg/Kg		76.0	63.7 - 115.4
Zinc	401	295.2		mg/Kg		73.6	62.8 - 116.7

Lab Sample ID: MB 480-664355/1-A
Matrix: Solid
Analysis Batch: 664708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1	U	2.1	0.42	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Barium	0.52	U	0.52	0.11	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Beryllium	0.21	U	0.21	0.029	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Cadmium	0.21	U	0.21	0.031	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Chromium	0.52	U	0.52	0.21	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Copper	1.0	U	1.0	0.22	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Lead	1.0	U	1.0	0.25	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Manganese	0.0633	J	0.21	0.033	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Nickel	5.2	U	5.2	0.24	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Selenium	4.2	U	4.2	0.42	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Silver	0.62	U	0.62	0.21	mg/Kg		04/07/23 14:36	04/10/23 16:51	1

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

Lab Sample ID: MB 480-664355/1-A
Matrix: Solid
Analysis Batch: 664708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.1	U	2.1	0.66	mg/Kg		04/07/23 14:36	04/10/23 16:51	1

Lab Sample ID: LCSSRM 480-664355/2-A
Matrix: Solid
Analysis Batch: 664708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664355

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	99.84		mg/Kg		77.4	60.9 - 113.2
Barium	169	142.9		mg/Kg		84.6	68.6 - 114.2
Beryllium	137	102.9		mg/Kg		75.1	66.3 - 110.2
Cadmium	227	170.2		mg/Kg		75.0	64.8 - 110.1
Chromium	115	91.72		mg/Kg		79.8	62.4 - 115.7
Copper	76.0	60.78		mg/Kg		80.0	69.5 - 115.8
Lead	74.8	75.53		mg/Kg		101.0	67.0 - 128.9
Manganese	400	342.7		mg/Kg		85.7	70.5 - 115.8
Nickel	282	249.0		mg/Kg		88.3	62.1 - 114.9
Selenium	246	179.5		mg/Kg		73.0	60.2 - 114.6
Silver	87.5	67.85		mg/Kg		77.5	63.7 - 115.4
Zinc	401	298.5		mg/Kg		74.4	62.8 - 116.7

Lab Sample ID: 480-207459-8 MS
Matrix: Solid
Analysis Batch: 664708

Client Sample ID: BH10 2-4 FT
Prep Type: Total/NA
Prep Batch: 664355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	3.6		47.7	49.85		mg/Kg	☼	97	75 - 125
Barium	128	F1	47.7	157.6	F1	mg/Kg	☼	61	75 - 125
Beryllium	0.24		47.7	42.70		mg/Kg	☼	89	75 - 125
Cadmium	0.67		47.7	44.68		mg/Kg	☼	92	75 - 125
Chromium	15.8		47.7	56.67		mg/Kg	☼	86	75 - 125
Lead	185	F1	47.7	289.5	F1	mg/Kg	☼	220	75 - 125
Manganese	505	B F2	47.7	649.9	4	mg/Kg	☼	303	75 - 125
Nickel	7.3		47.7	55.99		mg/Kg	☼	102	75 - 125
Selenium	4.6	U	47.7	41.90		mg/Kg	☼	88	75 - 125
Silver	0.69	U	11.9	10.97		mg/Kg	☼	92	75 - 125
Zinc	241	F2	47.7	222.5	4	mg/Kg	☼	-40	75 - 125

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

Lab Sample ID: 480-207459-8 MS
Matrix: Solid
Analysis Batch: 664778

Client Sample ID: BH10 2-4 FT
Prep Type: Total/NA
Prep Batch: 664355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Copper	17.7		47.7	71.25		mg/Kg	☼	112	75 - 125		

Lab Sample ID: 480-207459-8 MSD
Matrix: Solid
Analysis Batch: 664708

Client Sample ID: BH10 2-4 FT
Prep Type: Total/NA
Prep Batch: 664355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	3.6		46.8	48.69		mg/Kg	☼	96	75 - 125	2	20
Barium	128	F1	46.8	134.5	F1	mg/Kg	☼	13	75 - 125	16	20
Beryllium	0.24		46.8	41.97		mg/Kg	☼	89	75 - 125	2	20
Cadmium	0.67		46.8	45.28		mg/Kg	☼	95	75 - 125	1	20
Chromium	15.8		46.8	63.06		mg/Kg	☼	101	75 - 125	11	20
Lead	185	F1	46.8	295.7	F1	mg/Kg	☼	237	75 - 125	2	20
Manganese	505	B F2	46.8	528.4	4 F2	mg/Kg	☼	49	75 - 125	21	20
Nickel	7.3		46.8	61.22		mg/Kg	☼	115	75 - 125	9	20
Selenium	4.6	U	46.8	41.32		mg/Kg	☼	88	75 - 125	1	20
Silver	0.69	U	11.7	10.78		mg/Kg	☼	92	75 - 125	2	20
Zinc	241	F2	46.8	487.5	4 F2	mg/Kg	☼	526	75 - 125	75	20

Lab Sample ID: 480-207459-8 MSD
Matrix: Solid
Analysis Batch: 664778

Client Sample ID: BH10 2-4 FT
Prep Type: Total/NA
Prep Batch: 664355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	17.7		46.8	68.86		mg/Kg	☼	109	75 - 125	3	20

Lab Sample ID: MB 480-664563/1-A
Matrix: Solid
Analysis Batch: 664776

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.0	U	1.0	0.21	mg/Kg		04/10/23 14:43	04/11/23 12:33	1
Silver	0.60	U	0.60	0.20	mg/Kg		04/10/23 14:43	04/11/23 12:33	1

Lab Sample ID: LCDSRM 480-664563/3-A
Matrix: Solid
Analysis Batch: 664776

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 664563

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper			76.0	61.13		mg/Kg		80.4	69.5 - 115.8	6	20
Silver			87.5	59.93		mg/Kg		68.5	63.7 - 115.4	3	20

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

Lab Sample ID: LCSSRM 480-664563/2-A
Matrix: Solid
Analysis Batch: 664776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664563

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Copper			76.0	65.00		mg/Kg		85.5	69.5 - 115.8		
Silver			87.5	58.09		mg/Kg		66.4	63.7 - 115.4		

Lab Sample ID: 480-207459-1 MS
Matrix: Solid
Analysis Batch: 664810

Client Sample ID: BH3 3-7 FT
Prep Type: Total/NA
Prep Batch: 664563

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Copper	40.0	F1	44.4	86.91		mg/Kg	☼	105	75 - 125		
Silver	0.65	U	11.1	10.79		mg/Kg	☼	97	75 - 125		

Lab Sample ID: 480-207459-1 MSD
Matrix: Solid
Analysis Batch: 664810

Client Sample ID: BH3 3-7 FT
Prep Type: Total/NA
Prep Batch: 664563

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	40.0	F1	45.1	72.05	F1	mg/Kg	☼	71	75 - 125	19	20
Silver	0.65	U	11.3	10.82		mg/Kg	☼	96	75 - 125	0	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-665001/1-A
Matrix: Solid
Analysis Batch: 665164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 665001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0045	mg/Kg		04/13/23 10:54	04/13/23 12:51	1

Lab Sample ID: LCSSRM 480-665001/2-A ^10
Matrix: Solid
Analysis Batch: 665164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 665001

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			20.7	11.93		mg/Kg		57.6	38.3 - 110.1		

GC/MS VOA

Prep Batch: 663910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-6	BH8 2-4 FT	Total/NA	Solid	5035A_L	
480-207459-7	BH9 2-4 FT	Total/NA	Solid	5035A_L	
MB 480-663910/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-663910/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-207459-7 MS	BH9 2-4 FT	Total/NA	Solid	5035A_L	
480-207459-7 MSD	BH9 2-4 FT	Total/NA	Solid	5035A_L	

Analysis Batch: 663911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-6	BH8 2-4 FT	Total/NA	Solid	8260C	663910
480-207459-7	BH9 2-4 FT	Total/NA	Solid	8260C	663910
MB 480-663910/2-A	Method Blank	Total/NA	Solid	8260C	663910
LCS 480-663910/1-A	Lab Control Sample	Total/NA	Solid	8260C	663910
480-207459-7 MS	BH9 2-4 FT	Total/NA	Solid	8260C	663910
480-207459-7 MSD	BH9 2-4 FT	Total/NA	Solid	8260C	663910

GC/MS Semi VOA

Analysis Batch: 663968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	8270D	664077
480-207459-2	BH4 1-2 FT	Total/NA	Solid	8270D	664077
480-207459-4	BH6 2-4 FT	Total/NA	Solid	8270D	664077
480-207459-5	BH7 1-4 FT	Total/NA	Solid	8270D	664077
480-207459-6	BH8 2-4 FT	Total/NA	Solid	8270D	664077
480-207459-7	BH9 2-4 FT	Total/NA	Solid	8270D	664077
480-207459-8	BH10 2-4 FT	Total/NA	Solid	8270D	664077
MB 480-664077/1-A	Method Blank	Total/NA	Solid	8270D	664077
LCS 480-664077/2-A	Lab Control Sample	Total/NA	Solid	8270D	664077

Prep Batch: 664077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	3550C	
480-207459-2	BH4 1-2 FT	Total/NA	Solid	3550C	
480-207459-3	BH5 3-6 FT	Total/NA	Solid	3550C	
480-207459-4	BH6 2-4 FT	Total/NA	Solid	3550C	
480-207459-5	BH7 1-4 FT	Total/NA	Solid	3550C	
480-207459-6	BH8 2-4 FT	Total/NA	Solid	3550C	
480-207459-7	BH9 2-4 FT	Total/NA	Solid	3550C	
480-207459-8	BH10 2-4 FT	Total/NA	Solid	3550C	
MB 480-664077/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-664077/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 664319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-3	BH5 3-6 FT	Total/NA	Solid	8270D	664077

Metals

Prep Batch: 664187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 664187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-664187/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-664187/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 664352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-2	BH4 1-2 FT	Total/NA	Solid	3050B	
480-207459-3	BH5 3-6 FT	Total/NA	Solid	3050B	
480-207459-4	BH6 2-4 FT	Total/NA	Solid	3050B	
480-207459-5	BH7 1-4 FT	Total/NA	Solid	3050B	
480-207459-6	BH8 2-4 FT	Total/NA	Solid	3050B	
480-207459-7	BH9 2-4 FT	Total/NA	Solid	3050B	
MB 480-664352/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-664352/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 664355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-8	BH10 2-4 FT	Total/NA	Solid	3050B	
MB 480-664355/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-664355/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-207459-8 MS	BH10 2-4 FT	Total/NA	Solid	3050B	
480-207459-8 MSD	BH10 2-4 FT	Total/NA	Solid	3050B	

Analysis Batch: 664493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	6010C	664187
MB 480-664187/1-A	Method Blank	Total/NA	Solid	6010C	664187
LCSSRM 480-664187/2-A	Lab Control Sample	Total/NA	Solid	6010C	664187

Prep Batch: 664563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	3050B	
MB 480-664563/1-A	Method Blank	Total/NA	Solid	3050B	
LCDSRM 480-664563/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-664563/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-207459-1 MS	BH3 3-7 FT	Total/NA	Solid	3050B	
480-207459-1 MSD	BH3 3-7 FT	Total/NA	Solid	3050B	

Analysis Batch: 664595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-2	BH4 1-2 FT	Total/NA	Solid	6010C	664352
480-207459-3	BH5 3-6 FT	Total/NA	Solid	6010C	664352
480-207459-4	BH6 2-4 FT	Total/NA	Solid	6010C	664352
480-207459-5	BH7 1-4 FT	Total/NA	Solid	6010C	664352
480-207459-6	BH8 2-4 FT	Total/NA	Solid	6010C	664352
480-207459-7	BH9 2-4 FT	Total/NA	Solid	6010C	664352
MB 480-664352/1-A	Method Blank	Total/NA	Solid	6010C	664352
LCSSRM 480-664352/2-A	Lab Control Sample	Total/NA	Solid	6010C	664352

Analysis Batch: 664708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-8	BH10 2-4 FT	Total/NA	Solid	6010C	664355

Metals (Continued)

Analysis Batch: 664708 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-664355/1-A	Method Blank	Total/NA	Solid	6010C	664355
LCSSRM 480-664355/2-A	Lab Control Sample	Total/NA	Solid	6010C	664355
480-207459-8 MS	BH10 2-4 FT	Total/NA	Solid	6010C	664355
480-207459-8 MSD	BH10 2-4 FT	Total/NA	Solid	6010C	664355

Analysis Batch: 664776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-664563/1-A	Method Blank	Total/NA	Solid	6010C	664563
LCDSRM 480-664563/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	664563
LCSSRM 480-664563/2-A	Lab Control Sample	Total/NA	Solid	6010C	664563

Analysis Batch: 664778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-3	BH5 3-6 FT	Total/NA	Solid	6010C	664352
480-207459-4	BH6 2-4 FT	Total/NA	Solid	6010C	664352
480-207459-8	BH10 2-4 FT	Total/NA	Solid	6010C	664355
480-207459-8 MS	BH10 2-4 FT	Total/NA	Solid	6010C	664355
480-207459-8 MSD	BH10 2-4 FT	Total/NA	Solid	6010C	664355

Analysis Batch: 664810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	6010C	664563
480-207459-1 MS	BH3 3-7 FT	Total/NA	Solid	6010C	664563
480-207459-1 MSD	BH3 3-7 FT	Total/NA	Solid	6010C	664563

Prep Batch: 665001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	7471B	
480-207459-2	BH4 1-2 FT	Total/NA	Solid	7471B	
480-207459-3	BH5 3-6 FT	Total/NA	Solid	7471B	
480-207459-4	BH6 2-4 FT	Total/NA	Solid	7471B	
480-207459-5	BH7 1-4 FT	Total/NA	Solid	7471B	
480-207459-6	BH8 2-4 FT	Total/NA	Solid	7471B	
480-207459-7	BH9 2-4 FT	Total/NA	Solid	7471B	
480-207459-8	BH10 2-4 FT	Total/NA	Solid	7471B	
MB 480-665001/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-665001/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 665164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	7471B	665001
480-207459-2	BH4 1-2 FT	Total/NA	Solid	7471B	665001
480-207459-3	BH5 3-6 FT	Total/NA	Solid	7471B	665001
480-207459-4	BH6 2-4 FT	Total/NA	Solid	7471B	665001
480-207459-5	BH7 1-4 FT	Total/NA	Solid	7471B	665001
480-207459-6	BH8 2-4 FT	Total/NA	Solid	7471B	665001
480-207459-7	BH9 2-4 FT	Total/NA	Solid	7471B	665001
480-207459-8	BH10 2-4 FT	Total/NA	Solid	7471B	665001
MB 480-665001/1-A	Method Blank	Total/NA	Solid	7471B	665001
LCSSRM 480-665001/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	665001

General Chemistry

Analysis Batch: 663900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	Moisture	
480-207459-2	BH4 1-2 FT	Total/NA	Solid	Moisture	
480-207459-3	BH5 3-6 FT	Total/NA	Solid	Moisture	
480-207459-4	BH6 2-4 FT	Total/NA	Solid	Moisture	
480-207459-5	BH7 1-4 FT	Total/NA	Solid	Moisture	
480-207459-6	BH8 2-4 FT	Total/NA	Solid	Moisture	
480-207459-7	BH9 2-4 FT	Total/NA	Solid	Moisture	
480-207459-8	BH10 2-4 FT	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Client Sample ID: BH3 3-7 FT
Lab Sample ID: 480-207459-1
Date Collected: 04/03/23 08:30
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH3 3-7 FT
Lab Sample ID: 480-207459-1
Date Collected: 04/03/23 08:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		1	663968	JMM	EET BUF	04/06/23 16:38
Total/NA	Prep	3050B			664187	NVK	EET BUF	04/06/23 14:44
Total/NA	Analysis	6010C		1	664493	LMH	EET BUF	04/07/23 20:54
Total/NA	Prep	3050B			664563	VAK	EET BUF	04/10/23 14:43
Total/NA	Analysis	6010C		1	664810	LMH	EET BUF	04/11/23 15:35
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:07

Client Sample ID: BH4 1-2 FT
Lab Sample ID: 480-207459-2
Date Collected: 04/03/23 09:00
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH4 1-2 FT
Lab Sample ID: 480-207459-2
Date Collected: 04/03/23 09:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		10	663968	JMM	EET BUF	04/06/23 17:03
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 14:36
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:08

Client Sample ID: BH5 3-6 FT
Lab Sample ID: 480-207459-3
Date Collected: 04/03/23 09:30
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH5 3-6 FT
Lab Sample ID: 480-207459-3
Date Collected: 04/03/23 09:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		20	664319	JMM	EET BUF	04/07/23 11:53
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 14:40
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		5	664778	LMH	EET BUF	04/11/23 13:08
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:09

Client Sample ID: BH6 2-4 FT
Lab Sample ID: 480-207459-4
Date Collected: 04/03/23 10:00
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH6 2-4 FT
Lab Sample ID: 480-207459-4
Date Collected: 04/03/23 10:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		20	663968	JMM	EET BUF	04/06/23 17:54
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 14:56
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		5	664778	LMH	EET BUF	04/11/23 13:12
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:10

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5
Date Collected: 04/03/23 10:30
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5
Date Collected: 04/03/23 10:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		10	663968	JMM	EET BUF	04/06/23 18:19
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 15:00

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5
Date Collected: 04/03/23 10:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:12

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6
Date Collected: 04/03/23 11:00
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6
Date Collected: 04/03/23 11:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			663910	CDC	EET BUF	04/04/23 17:33
Total/NA	Analysis	8260C		1	663911	CDC	EET BUF	04/04/23 23:16
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		10	663968	JMM	EET BUF	04/06/23 18:45
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 15:04
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:13

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7
Date Collected: 04/03/23 11:30
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7
Date Collected: 04/03/23 11:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			663910	CDC	EET BUF	04/04/23 17:33
Total/NA	Analysis	8260C		1	663911	CDC	EET BUF	04/04/23 23:40
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		10	663968	JMM	EET BUF	04/06/23 19:10
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 15:08
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:14

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Client Sample ID: BH10 2-4 FT
Lab Sample ID: 480-207459-8
Date Collected: 04/03/23 12:00
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH10 2-4 FT
Lab Sample ID: 480-207459-8
Date Collected: 04/03/23 12:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		10	663968	JMM	EET BUF	04/06/23 19:35
Total/NA	Prep	3050B			664355	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664708	LMH	EET BUF	04/10/23 16:58
Total/NA	Prep	3050B			664355	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		5	664778	LMH	EET BUF	04/11/23 12:33
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:16

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

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	03-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
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

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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207459-1	BH3 3-7 FT	Solid	04/03/23 08:30	04/03/23 15:17
480-207459-2	BH4 1-2 FT	Solid	04/03/23 09:00	04/03/23 15:17
480-207459-3	BH5 3-6 FT	Solid	04/03/23 09:30	04/03/23 15:17
480-207459-4	BH6 2-4 FT	Solid	04/03/23 10:00	04/03/23 15:17
480-207459-5	BH7 1-4 FT	Solid	04/03/23 10:30	04/03/23 15:17
480-207459-6	BH8 2-4 FT	Solid	04/03/23 11:00	04/03/23 15:17
480-207459-7	BH9 2-4 FT	Solid	04/03/23 11:30	04/03/23 15:17
480-207459-8	BH10 2-4 FT	Solid	04/03/23 12:00	04/03/23 15:17

Eurofins Buffalo
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: Jacob Cox	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-182773-38809.1
Client Contact: Jason Brydges	Phone: 716 418 0192	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Brydges Engineering in Environment & Energy DPC	PWSID:	Analysis Requested		Job #:
Address: 960 Busti Ave Suite B-150	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:
City: Buffalo	TAT Requested (days): 10 day			
State, Zip: NY, 14213	Compliance Project: Δ Yes Δ No			
Phone: 716-362-6533(Tel)	PO #: Purchase Order not required			
Email: jbrydges@be3corp.com jcox@be3corp.com	WO #: Old Falls Street			
Project Name: AMD Edgemere Old Falls Street	Project #: 48024347			
Site: Old Falls Street	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B	8270D - Part 375 SVOCs	8260C - Part 375 VOCs (LL BULK)	8260C - Part 375 VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
BH3 3-7 FT	4/3	8:30	G	Solid			X	X				
BH4 1-2 FT	4/3	9:00	G	Solid			X	X				
BH5 3-6 FT	4/3	9:30	G	Solid			X	X				
BH6 2-4 FT	4/3	10:00	G	Solid			X	X				
BH7 1-4 FT	4/3	10:30	G	Solid			X	X				
BH8 2-4 FT	4/3	11:00	G	Solid			X	X	X			
[redacted] BH9 2-4 FT	4/3	11:30	G	Solid			X	X	X			
BH10 2-4 FT	4/3	12:00	G	Solid			X	X				
				Solid								
				Solid								
				Solid								

480-207459 Chain of Custody

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4-13

4/14/2023

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: None

Empty Kit Relinquished by: Jacob Cox | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Cox	4/3 3:00 PM	BE3	[illegible]	4/3/23 1517	T/T

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 9.2 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-207459-1

Login Number: 207459
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	
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	BE3
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: Mr. Paul Staub
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 4/9/2025 9:53:23 AM

JOB DESCRIPTION

333 1st St. Niagara Falls, NY

JOB NUMBER

480-228418-1

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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Qualifiers

GC/MS 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.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS Semi 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.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-228418-1 Eurofins Buffalo

Job Narrative
480-228418-1

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 4/3/2025 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-742666 recovered above the upper control limit for 2-Butanone (MEK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: Drain 1 (480-228418-13), Drain 2 (480-228418-14), Drain 3 (480-228418-15) and Drain 4 (480-228418-16).

Method 8260C - TCLP: The continuing calibration verification (CCV) associated with batch 480-742831 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: D1 (480-228418-1), D2 (480-228418-2), D3 (480-228418-3), D4 (480-228418-4), D5 (480-228418-5), D6 (480-228418-6), D7 (480-228418-7), D8 (480-228418-8), D9 (480-228418-9), D10 (480-228418-10), D11 (480-228418-11) and D12 (480-228418-12).

Method 8260C - TCLP: The following samples were diluted due to the nature of the TCLP matrix: D1 (480-228418-1), D2 (480-228418-2), D3 (480-228418-3), D4 (480-228418-4), D5 (480-228418-5), D6 (480-228418-6), D7 (480-228418-7), D8 (480-228418-8), D9 (480-228418-9), D10 (480-228418-10), D11 (480-228418-11), D12 (480-228418-12) and (LB 480-742808/1-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
Method 8270D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-742676.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: Drain 1 (480-228418-13), Drain 2 (480-228418-14), Drain 3 (480-228418-15) and Drain 4 (480-228418-16). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: Drain 4 (480-228418-16). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: Drain 1 (480-228418-13). 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.

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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Client Sample ID: D1 — Lab Sample ID: 480-228418-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0027	J F1 B	0.10	0.0016	mg/L	1		8270D	TCLP
Barium	0.29	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.0074		0.0020	0.00050	mg/L	1		6010D	TCLP
Lead	0.030		0.020	0.0030	mg/L	1		6010D	TCLP

Client Sample ID: D2 — Lab Sample ID: 480-228418-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.37	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.0078		0.0020	0.00050	mg/L	1		6010D	TCLP
Lead	0.039		0.020	0.0030	mg/L	1		6010D	TCLP

Client Sample ID: D3 — Lab Sample ID: 480-228418-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0024	J B	0.10	0.0016	mg/L	1		8270D	TCLP
Barium	0.28	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.0085		0.0020	0.00050	mg/L	1		6010D	TCLP
Lead	0.16		0.020	0.0030	mg/L	1		6010D	TCLP

Client Sample ID: D4 — Lab Sample ID: 480-228418-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0031	J B	0.10	0.0016	mg/L	1		8270D	TCLP
Barium	0.37	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.0050		0.0020	0.00050	mg/L	1		6010D	TCLP
Lead	0.028		0.020	0.0030	mg/L	1		6010D	TCLP

Client Sample ID: D5 — Lab Sample ID: 480-228418-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0016	J B	0.10	0.0016	mg/L	1		8270D	TCLP
Barium	0.32	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.0087		0.0020	0.00050	mg/L	1		6010D	TCLP
Lead	0.057		0.020	0.0030	mg/L	1		6010D	TCLP

Client Sample ID: D6 — Lab Sample ID: 480-228418-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0022	J B	0.10	0.0016	mg/L	1		8270D	TCLP
Barium	0.10	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.015		0.0020	0.00050	mg/L	1		6010D	TCLP
Lead	0.084		0.020	0.0030	mg/L	1		6010D	TCLP

Client Sample ID: D7 — Lab Sample ID: 480-228418-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0020	J B	0.10	0.0016	mg/L	1		8270D	TCLP
Barium	0.33	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.012		0.0020	0.00050	mg/L	1		6010D	TCLP
Lead	0.070		0.020	0.0030	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Client Sample ID: D8 — Lab Sample ID: 480-228418-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0019	J B	0.10	0.0016	mg/L	1		8270D	TCLP
Barium	0.35	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.0092		0.0020	0.00050	mg/L	1		6010D	TCLP
Lead	0.067		0.020	0.0030	mg/L	1		6010D	TCLP

Client Sample ID: D9 — Lab Sample ID: 480-228418-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0017	J B	0.10	0.0016	mg/L	1		8270D	TCLP
Barium	0.11	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.024		0.0020	0.00050	mg/L	1		6010D	TCLP
Lead	0.16		0.020	0.0030	mg/L	1		6010D	TCLP

Client Sample ID: D10 — Lab Sample ID: 480-228418-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0018	J B	0.10	0.0016	mg/L	1		8270D	TCLP
Barium	0.19	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.0065		0.0020	0.00050	mg/L	1		6010D	TCLP
Chromium	0.014	J	0.020	0.010	mg/L	1		6010D	TCLP
Lead	0.053		0.020	0.0030	mg/L	1		6010D	TCLP

Client Sample ID: D11 — Lab Sample ID: 480-228418-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0018	J B	0.10	0.0016	mg/L	1		8270D	TCLP
Barium	0.31	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.016		0.0020	0.00050	mg/L	1		6010D	TCLP
Lead	0.44		0.020	0.0030	mg/L	1		6010D	TCLP
Selenium	0.0089	J	0.025	0.0087	mg/L	1		6010D	TCLP

Client Sample ID: D12 — Lab Sample ID: 480-228418-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0017	J B	0.10	0.0016	mg/L	1		8270D	TCLP
Barium	0.27	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.0031		0.0020	0.00050	mg/L	1		6010D	TCLP
Chromium	0.027		0.020	0.010	mg/L	1		6010D	TCLP
Lead	0.052		0.020	0.0030	mg/L	1		6010D	TCLP

Client Sample ID: Drain 1 — Lab Sample ID: 480-228418-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.67	J B vs	5.4	0.33	ug/Kg	1	☼	8260C	Total/NA
Fluoranthene	550	J	3700	390	ug/Kg	20	☼	8270D	Total/NA
Pyrene	430	J	3700	430	ug/Kg	20	☼	8270D	Total/NA
Arsenic	13.6		11.5	5.0	mg/Kg	5	☼	6010D	Total/NA
Barium	227	F1	2.9	0.80	mg/Kg	5	☼	6010D	Total/NA
Beryllium	1.0	J	1.1	0.23	mg/Kg	5	☼	6010D	Total/NA
Cadmium	4.7		1.1	0.40	mg/Kg	5	☼	6010D	Total/NA
Chromium	46.9	F1	2.9	2.1	mg/Kg	5	☼	6010D	Total/NA
Copper	54.9	F1	5.7	3.3	mg/Kg	5	☼	6010D	Total/NA
Manganese	3180		5.7	1.6	mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: Drain 1 (Continued)
Lab Sample ID: 480-228418-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	31.8	F1	28.7	1.4	mg/Kg	5	☼	6010D	Total/NA
Lead	552	F2	5.7	2.6	mg/Kg	5	☼	6010D	Total/NA
Zinc	1260		11.5	5.8	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.12		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Drain 2
Lab Sample ID: 480-228418-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.64	J B vs	5.4	0.33	ug/Kg	1	☼	8260C	Total/NA
Benzo(a)pyrene	400	J	1900	270	ug/Kg	10	☼	8270D	Total/NA
Benzo(b)fluoranthene	540	J	1900	300	ug/Kg	10	☼	8270D	Total/NA
Benzo(g,h,i)perylene	360	J	1900	200	ug/Kg	10	☼	8270D	Total/NA
Benzo(k)fluoranthene	300	J	1900	240	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	860	J	1900	200	ug/Kg	10	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	340	J	1900	230	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	340	J	1900	270	ug/Kg	10	☼	8270D	Total/NA
Pyrene	650	J	1900	220	ug/Kg	10	☼	8270D	Total/NA
Arsenic	4.5		2.2	0.96	mg/Kg	1	☼	6010D	Total/NA
Barium	59.8		0.54	0.15	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.31		0.22	0.044	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.2		0.22	0.076	mg/Kg	1	☼	6010D	Total/NA
Chromium	11.3		0.54	0.39	mg/Kg	1	☼	6010D	Total/NA
Copper	19.0		1.1	0.62	mg/Kg	1	☼	6010D	Total/NA
Manganese	471		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Nickel	11.2		5.4	0.27	mg/Kg	1	☼	6010D	Total/NA
Lead	144		1.1	0.50	mg/Kg	1	☼	6010D	Total/NA
Selenium	0.88	J	4.4	0.87	mg/Kg	1	☼	6010D	Total/NA
Zinc	373		2.2	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.13		0.023	0.0052	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Drain 3
Lab Sample ID: 480-228418-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.63	J B vs	5.4	0.33	ug/Kg	1	☼	8260C	Total/NA
Benzo(a)anthracene	260	J	910	91	ug/Kg	5	☼	8270D	Total/NA
Benzo(a)pyrene	300	J	910	130	ug/Kg	5	☼	8270D	Total/NA
Benzo(b)fluoranthene	290	J	910	140	ug/Kg	5	☼	8270D	Total/NA
Benzo(g,h,i)perylene	220	J	910	96	ug/Kg	5	☼	8270D	Total/NA
Benzo(k)fluoranthene	270	J	910	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	280	J	910	200	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	540	J	910	96	ug/Kg	5	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	180	J	910	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	230	J	910	130	ug/Kg	5	☼	8270D	Total/NA
Pyrene	430	J	910	110	ug/Kg	5	☼	8270D	Total/NA
Arsenic	3.1		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Barium	59.2		0.57	0.16	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.33		0.23	0.045	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.81		0.23	0.079	mg/Kg	1	☼	6010D	Total/NA
Chromium	11.4		0.57	0.41	mg/Kg	1	☼	6010D	Total/NA
Copper	21.5		1.1	0.65	mg/Kg	1	☼	6010D	Total/NA
Manganese	546		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Nickel	9.2		5.7	0.28	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Drain 3 (Continued)
Lab Sample ID: 480-228418-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	148		1.1	0.52	mg/Kg	1	☼	6010D	Total/NA
Zinc	267		2.3	1.2	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.25		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Drain 4
Lab Sample ID: 480-228418-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.67	J B vs	5.4	0.33	ug/Kg	1	☼	8260C	Total/NA
Arsenic	2.0	J	2.2	0.97	mg/Kg	1	☼	6010D	Total/NA
Barium	40.5		0.55	0.15	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.24		0.22	0.044	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.1		0.22	0.077	mg/Kg	1	☼	6010D	Total/NA
Chromium	15.0		0.55	0.40	mg/Kg	1	☼	6010D	Total/NA
Copper	12.6		1.1	0.63	mg/Kg	1	☼	6010D	Total/NA
Manganese	550		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Nickel	8.9		5.5	0.28	mg/Kg	1	☼	6010D	Total/NA
Lead	113		1.1	0.51	mg/Kg	1	☼	6010D	Total/NA
Zinc	316		2.2	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.069		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: D1
Date Collected: 04/03/25 08:00
Date Received: 04/03/25 13:45

Lab Sample ID: 480-228418-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 12:54	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 12:54	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 12:54	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 12:54	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 12:54	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 12:54	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 12:54	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 12:54	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 12:54	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 12:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/25 12:54*	*10*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*04/07/25 12:54*	*10*
Toluene-d8 (Surr)	*107*		*80 - 120*		*04/07/25 12:54*	*10*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*04/07/25 12:54*	*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		04/07/25 08:49	04/07/25 18:40	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/07/25 18:40	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/07/25 18:40	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/07/25 18:40	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/07/25 18:40	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/07/25 18:40	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/07/25 18:40	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/07/25 18:40	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/07/25 18:40	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/07/25 18:40	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/07/25 18:40	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/07/25 18:40	1
Pyridine	**0.0027**	**J F1 B**	0.10	0.0016	mg/L		04/07/25 08:49	04/07/25 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*25 - 144*	*04/07/25 08:49*	*04/07/25 18:40*	*1*
2-Fluorobiphenyl (Surr)	*80*		*53 - 126*	*04/07/25 08:49*	*04/07/25 18:40*	*1*
2-Fluorophenol (Surr)	*52*		*24 - 120*	*04/07/25 08:49*	*04/07/25 18:40*	*1*
Nitrobenzene-d5 (Surr)	*71*		*29 - 129*	*04/07/25 08:49*	*04/07/25 18:40*	*1*
p-Terphenyl-d14 (Surr)	*77*		*33 - 132*	*04/07/25 08:49*	*04/07/25 18:40*	*1*
Phenol-d5 (Surr)	*35*		*10 - 120*	*04/07/25 08:49*	*04/07/25 18:40*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 18:33	1
Barium	**0.29**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 18:33	1
Cadmium	**0.0074**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 18:33	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 18:33	1
Lead	**0.030**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 18:33	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 18:33	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 18:33	1

Client Sample ID: D1
Lab Sample ID: 480-228418-1
Date Collected: 04/03/25 08:00
Matrix: Solid
Date Received: 04/03/25 13:45

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:22	1

Client Sample ID: D2
Lab Sample ID: 480-228418-2
Date Collected: 04/03/25 09:30
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 13:17	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 13:17	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 13:17	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 13:17	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 13:17	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 13:17	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 13:17	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 13:17	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 13:17	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 13:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/25 13:17*	*10*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/07/25 13:17*	*10*
Toluene-d8 (Surr)	*108*		*80 - 120*		*04/07/25 13:17*	*10*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*04/07/25 13:17*	*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		04/07/25 08:49	04/08/25 11:10	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/08/25 11:10	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/08/25 11:10	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/08/25 11:10	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/08/25 11:10	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/08/25 11:10	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/08/25 11:10	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/08/25 11:10	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/08/25 11:10	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/08/25 11:10	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/08/25 11:10	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/08/25 11:10	1
Pyridine	ND		0.10	0.0016	mg/L		04/07/25 08:49	04/08/25 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*25 - 144*	*04/07/25 08:49*	*04/08/25 11:10*	*1*
2-Fluorobiphenyl (Surr)	*65*		*53 - 126*	*04/07/25 08:49*	*04/08/25 11:10*	*1*
2-Fluorophenol (Surr)	*43*		*24 - 120*	*04/07/25 08:49*	*04/08/25 11:10*	*1*
Nitrobenzene-d5 (Surr)	*58*		*29 - 129*	*04/07/25 08:49*	*04/08/25 11:10*	*1*
p-Terphenyl-d14 (Surr)	*68*		*33 - 132*	*04/07/25 08:49*	*04/08/25 11:10*	*1*
Phenol-d5 (Surr)	*30*		*10 - 120*	*04/07/25 08:49*	*04/08/25 11:10*	*1*

Client Sample ID: D2

Lab Sample ID: 480-228418-2
Date Collected: 04/03/25 09:30
Matrix: Solid
Date Received: 04/03/25 13:45

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 18:43	1
Barium	**0.37**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 18:43	1
Cadmium	**0.0078**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 18:43	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 18:43	1
Lead	**0.039**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 18:43	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 18:43	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 18:43	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:27	1

Client Sample ID: D3

Lab Sample ID: 480-228418-3
Date Collected: 04/03/25 10:00
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 13:39	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 13:39	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 13:39	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 13:39	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 13:39	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 13:39	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 13:39	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 13:39	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 13:39	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 13:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/25 13:39*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*04/07/25 13:39*	*10*
Toluene-d8 (Surr)	*107*		*80 - 120*		*04/07/25 13:39*	*10*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*04/07/25 13:39*	*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		04/07/25 08:49	04/08/25 11:38	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/08/25 11:38	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/08/25 11:38	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/08/25 11:38	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/08/25 11:38	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/08/25 11:38	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/08/25 11:38	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/08/25 11:38	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/08/25 11:38	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/08/25 11:38	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/08/25 11:38	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/08/25 11:38	1
Pyridine	**0.0024**	**J B**	0.10	0.0016	mg/L		04/07/25 08:49	04/08/25 11:38	1

Client Sample ID: D3
Lab Sample ID: 480-228418-3
Date Collected: 04/03/25 10:00
Matrix: Solid
Date Received: 04/03/25 13:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*60*		*25 - 144*	*04/07/25 08:49*	*04/08/25 11:38*	*1*
2-Fluorobiphenyl (Surr)	*74*		*53 - 126*	*04/07/25 08:49*	*04/08/25 11:38*	*1*
2-Fluorophenol (Surr)	*49*		*24 - 120*	*04/07/25 08:49*	*04/08/25 11:38*	*1*
Nitrobenzene-d5 (Surr)	*67*		*29 - 129*	*04/07/25 08:49*	*04/08/25 11:38*	*1*
p-Terphenyl-d14 (Surr)	*71*		*33 - 132*	*04/07/25 08:49*	*04/08/25 11:38*	*1*
Phenol-d5 (Surr)	*33*		*10 - 120*	*04/07/25 08:49*	*04/08/25 11:38*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 18:51	1
Barium	**0.28**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 18:51	1
Cadmium	**0.0085**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 18:51	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 18:51	1
Lead	**0.16**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 18:51	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 18:51	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 18:51	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:28	1

Client Sample ID: D4
Lab Sample ID: 480-228418-4
Date Collected: 04/03/25 10:10
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 14:01	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 14:01	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 14:01	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 14:01	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 14:01	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 14:01	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 14:01	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 14:01	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 14:01	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 14:01	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*04/07/25 14:01*	*10*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*04/07/25 14:01*	*10*
Toluene-d8 (Surr)	*104*		*80 - 120*		*04/07/25 14:01*	*10*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*04/07/25 14:01*	*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		04/07/25 08:49	04/08/25 12:05	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/08/25 12:05	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/08/25 12:05	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/08/25 12:05	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/08/25 12:05	1

Client Sample ID: D4
Lab Sample ID: 480-228418-4
Date Collected: 04/03/25 10:10
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/08/25 12:05	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/08/25 12:05	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/08/25 12:05	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/08/25 12:05	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/08/25 12:05	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/08/25 12:05	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/08/25 12:05	1
Pyridine	**0.0031**	**J B**	0.10	0.0016	mg/L		04/07/25 08:49	04/08/25 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*25 - 144*	*04/07/25 08:49*	*04/08/25 12:05*	*1*
2-Fluorobiphenyl (Surr)	*74*		*53 - 126*	*04/07/25 08:49*	*04/08/25 12:05*	*1*
2-Fluorophenol (Surr)	*46*		*24 - 120*	*04/07/25 08:49*	*04/08/25 12:05*	*1*
Nitrobenzene-d5 (Surr)	*64*		*29 - 129*	*04/07/25 08:49*	*04/08/25 12:05*	*1*
p-Terphenyl-d14 (Surr)	*73*		*33 - 132*	*04/07/25 08:49*	*04/08/25 12:05*	*1*
Phenol-d5 (Surr)	*32*		*10 - 120*	*04/07/25 08:49*	*04/08/25 12:05*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 18:53	1
Barium	**0.37**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 18:53	1
Cadmium	**0.0050**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 18:53	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 18:53	1
Lead	**0.028**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 18:53	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 18:53	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 18:53	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:30	1

Client Sample ID: D5
Lab Sample ID: 480-228418-5
Date Collected: 04/03/25 10:20
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 14:23	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 14:23	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 14:23	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 14:23	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 14:23	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 14:23	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 14:23	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 14:23	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 14:23	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 14:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/25 14:23*	*10*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*04/07/25 14:23*	*10*

Client Sample ID: D5
Lab Sample ID: 480-228418-5
Date Collected: 04/03/25 10:20
Matrix: Solid
Date Received: 04/03/25 13:45

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*04/07/25 14:23*	*10*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*04/07/25 14:23*	*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		04/07/25 08:49	04/08/25 12:32	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/08/25 12:32	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/08/25 12:32	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/08/25 12:32	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/08/25 12:32	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/08/25 12:32	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/08/25 12:32	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/08/25 12:32	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/08/25 12:32	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/08/25 12:32	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/08/25 12:32	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/08/25 12:32	1
Pyridine	**0.0016**	**J B**	0.10	0.0016	mg/L		04/07/25 08:49	04/08/25 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*25 - 144*	*04/07/25 08:49*	*04/08/25 12:32*	*1*
2-Fluorobiphenyl (Surr)	*75*		*53 - 126*	*04/07/25 08:49*	*04/08/25 12:32*	*1*
2-Fluorophenol (Surr)	*49*		*24 - 120*	*04/07/25 08:49*	*04/08/25 12:32*	*1*
Nitrobenzene-d5 (Surr)	*67*		*29 - 129*	*04/07/25 08:49*	*04/08/25 12:32*	*1*
p-Terphenyl-d14 (Surr)	*69*		*33 - 132*	*04/07/25 08:49*	*04/08/25 12:32*	*1*
Phenol-d5 (Surr)	*33*		*10 - 120*	*04/07/25 08:49*	*04/08/25 12:32*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 18:55	1
Barium	**0.32**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 18:55	1
Cadmium	**0.0087**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 18:55	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 18:55	1
Lead	**0.057**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 18:55	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 18:55	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 18:55	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:34	1

Client Sample ID: D6
Lab Sample ID: 480-228418-6
Date Collected: 04/03/25 10:30
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 14:46	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 14:46	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 14:46	10

Client Sample ID: D6
Date Collected: 04/03/25 10:30
Date Received: 04/03/25 13:45

Lab Sample ID: 480-228418-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 14:46	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 14:46	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 14:46	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 14:46	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 14:46	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 14:46	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 14:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/25 14:46*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*04/07/25 14:46*	*10*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/07/25 14:46*	*10*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*04/07/25 14:46*	*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		04/07/25 08:49	04/08/25 13:00	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/08/25 13:00	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/08/25 13:00	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/08/25 13:00	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/08/25 13:00	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/08/25 13:00	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/08/25 13:00	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/08/25 13:00	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/08/25 13:00	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/08/25 13:00	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/08/25 13:00	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/08/25 13:00	1
Pyridine	**0.0022**	**J B**	0.10	0.0016	mg/L		04/07/25 08:49	04/08/25 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*25 - 144*	*04/07/25 08:49*	*04/08/25 13:00*	*1*
2-Fluorobiphenyl (Surr)	*76*		*53 - 126*	*04/07/25 08:49*	*04/08/25 13:00*	*1*
2-Fluorophenol (Surr)	*48*		*24 - 120*	*04/07/25 08:49*	*04/08/25 13:00*	*1*
Nitrobenzene-d5 (Surr)	*68*		*29 - 129*	*04/07/25 08:49*	*04/08/25 13:00*	*1*
p-Terphenyl-d14 (Surr)	*86*		*33 - 132*	*04/07/25 08:49*	*04/08/25 13:00*	*1*
Phenol-d5 (Surr)	*34*		*10 - 120*	*04/07/25 08:49*	*04/08/25 13:00*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 18:56	1
Barium	**0.10**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 18:56	1
Cadmium	**0.015**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 18:56	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 18:56	1
Lead	**0.084**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 18:56	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 18:56	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 18:56	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:35	1

Client Sample ID: D7
Date Collected: 04/03/25 10:40
Date Received: 04/03/25 13:45

Lab Sample ID: 480-228418-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 15:17	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 15:17	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 15:17	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 15:17	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 15:17	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 15:17	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 15:17	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 15:17	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 15:17	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 15:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*04/07/25 15:17*	*10*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*04/07/25 15:17*	*10*
Toluene-d8 (Surr)	*109*		*80 - 120*		*04/07/25 15:17*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*04/07/25 15:17*	*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		04/07/25 08:49	04/08/25 13:28	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/08/25 13:28	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/08/25 13:28	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/08/25 13:28	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/08/25 13:28	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/08/25 13:28	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/08/25 13:28	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/08/25 13:28	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/08/25 13:28	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/08/25 13:28	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/08/25 13:28	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/08/25 13:28	1
Pyridine	**0.0020**	**J B**	0.10	0.0016	mg/L		04/07/25 08:49	04/08/25 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*56*		*25 - 144*	*04/07/25 08:49*	*04/08/25 13:28*	*1*
2-Fluorobiphenyl (Surr)	*67*		*53 - 126*	*04/07/25 08:49*	*04/08/25 13:28*	*1*
2-Fluorophenol (Surr)	*42*		*24 - 120*	*04/07/25 08:49*	*04/08/25 13:28*	*1*
Nitrobenzene-d5 (Surr)	*62*		*29 - 129*	*04/07/25 08:49*	*04/08/25 13:28*	*1*
p-Terphenyl-d14 (Surr)	*70*		*33 - 132*	*04/07/25 08:49*	*04/08/25 13:28*	*1*
Phenol-d5 (Surr)	*29*		*10 - 120*	*04/07/25 08:49*	*04/08/25 13:28*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 18:58	1
Barium	**0.33**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 18:58	1
Cadmium	**0.012**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 18:58	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 18:58	1
Lead	**0.070**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 18:58	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 18:58	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 18:58	1

Client Sample ID: D7
Lab Sample ID: 480-228418-7
Date Collected: 04/03/25 10:40
Matrix: Solid
Date Received: 04/03/25 13:45

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:36	1

Client Sample ID: D8
Lab Sample ID: 480-228418-8
Date Collected: 04/03/25 10:50
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 15:40	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 15:40	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 15:40	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 15:40	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 15:40	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 15:40	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 15:40	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 15:40	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 15:40	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 15:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*04/07/25 15:40*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*04/07/25 15:40*	*10*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/07/25 15:40*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*04/07/25 15:40*	*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		04/07/25 08:49	04/08/25 13:55	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/08/25 13:55	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/08/25 13:55	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/08/25 13:55	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/08/25 13:55	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/08/25 13:55	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/08/25 13:55	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/08/25 13:55	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/08/25 13:55	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/08/25 13:55	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/08/25 13:55	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/08/25 13:55	1
Pyridine	**0.0019**	**J B**	0.10	0.0016	mg/L		04/07/25 08:49	04/08/25 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*25 - 144*	*04/07/25 08:49*	*04/08/25 13:55*	*1*
2-Fluorobiphenyl (Surr)	*69*		*53 - 126*	*04/07/25 08:49*	*04/08/25 13:55*	*1*
2-Fluorophenol (Surr)	*47*		*24 - 120*	*04/07/25 08:49*	*04/08/25 13:55*	*1*
Nitrobenzene-d5 (Surr)	*65*		*29 - 129*	*04/07/25 08:49*	*04/08/25 13:55*	*1*
p-Terphenyl-d14 (Surr)	*76*		*33 - 132*	*04/07/25 08:49*	*04/08/25 13:55*	*1*
Phenol-d5 (Surr)	*31*		*10 - 120*	*04/07/25 08:49*	*04/08/25 13:55*	*1*

Client Sample ID: D8

Lab Sample ID: 480-228418-8
Date Collected: 04/03/25 10:50
Matrix: Solid
Date Received: 04/03/25 13:45

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 19:00	1
Barium	**0.35**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 19:00	1
Cadmium	**0.0092**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 19:00	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 19:00	1
Lead	**0.067**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 19:00	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 19:00	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 19:00	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:37	1

Client Sample ID: D9

Lab Sample ID: 480-228418-9
Date Collected: 04/03/25 11:00
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 16:02	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 16:02	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 16:02	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 16:02	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 16:02	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 16:02	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 16:02	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 16:02	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 16:02	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 16:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/25 16:02*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*04/07/25 16:02*	*10*
Toluene-d8 (Surr)	*105*		*80 - 120*		*04/07/25 16:02*	*10*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*04/07/25 16:02*	*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		04/07/25 08:49	04/08/25 14:23	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/08/25 14:23	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/08/25 14:23	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/08/25 14:23	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/08/25 14:23	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/08/25 14:23	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/08/25 14:23	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/08/25 14:23	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/08/25 14:23	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/08/25 14:23	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/08/25 14:23	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/08/25 14:23	1
Pyridine	**0.0017**	**J B**	0.10	0.0016	mg/L		04/07/25 08:49	04/08/25 14:23	1

Client Sample ID: D9

Lab Sample ID: 480-228418-9
Date Collected: 04/03/25 11:00
Matrix: Solid
Date Received: 04/03/25 13:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*66*		*25 - 144*	*04/07/25 08:49*	*04/08/25 14:23*	*1*
2-Fluorobiphenyl (Surr)	*70*		*53 - 126*	*04/07/25 08:49*	*04/08/25 14:23*	*1*
2-Fluorophenol (Surr)	*45*		*24 - 120*	*04/07/25 08:49*	*04/08/25 14:23*	*1*
Nitrobenzene-d5 (Surr)	*65*		*29 - 129*	*04/07/25 08:49*	*04/08/25 14:23*	*1*
p-Terphenyl-d14 (Surr)	*77*		*33 - 132*	*04/07/25 08:49*	*04/08/25 14:23*	*1*
Phenol-d5 (Surr)	*31*		*10 - 120*	*04/07/25 08:49*	*04/08/25 14:23*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 19:02	1
Barium	**0.11**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 19:02	1
Cadmium	**0.024**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 19:02	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 19:02	1
Lead	**0.16**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 19:02	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 19:02	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 19:02	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:39	1

Client Sample ID: D10

Lab Sample ID: 480-228418-10
Date Collected: 04/03/25 11:10
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 16:25	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 16:25	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 16:25	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 16:25	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 16:25	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 16:25	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 16:25	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 16:25	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 16:25	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 16:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*04/07/25 16:25*	*10*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*04/07/25 16:25*	*10*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/07/25 16:25*	*10*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*04/07/25 16:25*	*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		04/07/25 08:49	04/08/25 14:51	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/08/25 14:51	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/08/25 14:51	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/08/25 14:51	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/08/25 14:51	1

Client Sample ID: D10
Lab Sample ID: 480-228418-10
Date Collected: 04/03/25 11:10
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/08/25 14:51	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/08/25 14:51	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/08/25 14:51	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/08/25 14:51	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/08/25 14:51	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/08/25 14:51	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/08/25 14:51	1
Pyridine	**0.0018**	**J B**	0.10	0.0016	mg/L		04/07/25 08:49	04/08/25 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*25 - 144*	*04/07/25 08:49*	*04/08/25 14:51*	*1*
2-Fluorobiphenyl (Surr)	*73*		*53 - 126*	*04/07/25 08:49*	*04/08/25 14:51*	*1*
2-Fluorophenol (Surr)	*47*		*24 - 120*	*04/07/25 08:49*	*04/08/25 14:51*	*1*
Nitrobenzene-d5 (Surr)	*66*		*29 - 129*	*04/07/25 08:49*	*04/08/25 14:51*	*1*
p-Terphenyl-d14 (Surr)	*80*		*33 - 132*	*04/07/25 08:49*	*04/08/25 14:51*	*1*
Phenol-d5 (Surr)	*33*		*10 - 120*	*04/07/25 08:49*	*04/08/25 14:51*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 19:04	1
Barium	**0.19**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 19:04	1
Cadmium	**0.0065**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 19:04	1
Chromium	**0.014**	**J**	0.020	0.010	mg/L		04/07/25 09:15	04/07/25 19:04	1
Lead	**0.053**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 19:04	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 19:04	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 19:04	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:40	1

Client Sample ID: D11
Lab Sample ID: 480-228418-11
Date Collected: 04/03/25 11:20
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 16:47	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 16:47	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 16:47	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 16:47	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 16:47	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 16:47	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 16:47	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 16:47	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 16:47	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 16:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/25 16:47*	*10*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*04/07/25 16:47*	*10*

Client Sample ID: D11
Lab Sample ID: 480-228418-11
Date Collected: 04/03/25 11:20
Matrix: Solid
Date Received: 04/03/25 13:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/07/25 16:47*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*04/07/25 16:47*	*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		04/07/25 08:49	04/08/25 15:18	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/08/25 15:18	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/08/25 15:18	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/08/25 15:18	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/08/25 15:18	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/08/25 15:18	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/08/25 15:18	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/08/25 15:18	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/08/25 15:18	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/08/25 15:18	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/08/25 15:18	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/08/25 15:18	1
Pyridine	**0.0018**	**J B**	0.10	0.0016	mg/L		04/07/25 08:49	04/08/25 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*76*		*25 - 144*	*04/07/25 08:49*	*04/08/25 15:18*	*1*
2-Fluorobiphenyl (Surr)	*76*		*53 - 126*	*04/07/25 08:49*	*04/08/25 15:18*	*1*
2-Fluorophenol (Surr)	*51*		*24 - 120*	*04/07/25 08:49*	*04/08/25 15:18*	*1*
Nitrobenzene-d5 (Surr)	*69*		*29 - 129*	*04/07/25 08:49*	*04/08/25 15:18*	*1*
p-Terphenyl-d14 (Surr)	*72*		*33 - 132*	*04/07/25 08:49*	*04/08/25 15:18*	*1*
Phenol-d5 (Surr)	*35*		*10 - 120*	*04/07/25 08:49*	*04/08/25 15:18*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 19:06	1
Barium	**0.31**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 19:06	1
Cadmium	**0.016**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 19:06	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 19:06	1
Lead	**0.44**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 19:06	1
Selenium	**0.0089**	**J**	0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 19:06	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 19:06	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:41	1

Client Sample ID: D12
Lab Sample ID: 480-228418-12
Date Collected: 04/03/25 11:30
Matrix: Solid
Date Received: 04/03/25 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 17:09	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 17:09	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 17:09	10

Client Sample ID: D12
Date Collected: 04/03/25 11:30
Date Received: 04/03/25 13:45

Lab Sample ID: 480-228418-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 17:09	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 17:09	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 17:09	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 17:09	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 17:09	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 17:09	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 17:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/25 17:09*	*10*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*04/07/25 17:09*	*10*
Toluene-d8 (Surr)	*108*		*80 - 120*		*04/07/25 17:09*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*04/07/25 17:09*	*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		04/07/25 08:49	04/08/25 15:46	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/08/25 15:46	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/08/25 15:46	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/08/25 15:46	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/08/25 15:46	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/08/25 15:46	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/08/25 15:46	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/08/25 15:46	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/08/25 15:46	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/08/25 15:46	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/08/25 15:46	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/08/25 15:46	1
Pyridine	**0.0017**	**J B**	0.10	0.0016	mg/L		04/07/25 08:49	04/08/25 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*25 - 144*	*04/07/25 08:49*	*04/08/25 15:46*	*1*
2-Fluorobiphenyl (Surr)	*78*		*53 - 126*	*04/07/25 08:49*	*04/08/25 15:46*	*1*
2-Fluorophenol (Surr)	*48*		*24 - 120*	*04/07/25 08:49*	*04/08/25 15:46*	*1*
Nitrobenzene-d5 (Surr)	*69*		*29 - 129*	*04/07/25 08:49*	*04/08/25 15:46*	*1*
p-Terphenyl-d14 (Surr)	*75*		*33 - 132*	*04/07/25 08:49*	*04/08/25 15:46*	*1*
Phenol-d5 (Surr)	*34*		*10 - 120*	*04/07/25 08:49*	*04/08/25 15:46*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 19:14	1
Barium	**0.27**	**J**	1.0	0.10	mg/L		04/07/25 09:15	04/07/25 19:14	1
Cadmium	**0.0031**		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 19:14	1
Chromium	**0.027**		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 19:14	1
Lead	**0.052**		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 19:14	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 19:14	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 19:14	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:43	1

Client Sample ID: Drain 1
Date Collected: 04/03/25 11:40
Date Received: 04/03/25 13:45

Lab Sample ID: 480-228418-13
Matrix: Solid
Percent Solids: 92.3

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	vs	5.4	0.39	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
1,1-Dichloroethane	ND	vs	5.4	0.66	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
1,1-Dichloroethene	ND	vs	5.4	0.66	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Trimethylbenzene, 1,2,4-	ND	vs	5.4	1.0	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
1,2-Dichlorobenzene	ND	vs	5.4	0.42	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
1,2-Dichloroethane	ND	vs	5.4	0.27	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Trimethylbenzene, 1,3,5-	ND	vs	5.4	0.35	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
1,3-Dichlorobenzene	ND	vs	5.4	0.28	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
1,4-Dichlorobenzene	ND	vs	5.4	0.76	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
1,4-Dioxane	ND	vs	110	24	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Methyl Ethyl Ketone	ND	vs	27	2.0	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Acetone	ND	vs	27	4.6	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Benzene	ND	vs	5.4	0.27	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Carbon tetrachloride	ND	vs	5.4	0.52	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Chlorobenzene	ND	vs	5.4	0.71	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Chloroform	**0.67**	**J B vs**	5.4	0.33	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
1,2-Dichloroethene, cis-	ND	vs	5.4	0.69	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Ethylbenzene	ND	vs	5.4	0.37	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Methyl tert-butyl ether	ND	vs	5.4	0.53	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Methylene Chloride	ND	vs	5.4	2.5	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Butylbenzene	ND	vs	5.4	0.47	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Propylbenzene, n-	ND	vs	5.4	0.43	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
sec-Butylbenzene	ND	vs	5.4	0.47	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Tetrachloroethene	ND	vs	5.4	0.73	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Toluene	ND	vs	5.4	0.41	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
1,2-Dichloroethene, trans-	ND	vs	5.4	0.56	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Trichloroethene	ND	vs	5.4	1.2	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Vinyl chloride	ND	vs	5.4	0.66	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
Xylene (mixed)	ND	vs	11	0.91	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1
tert-Butylbenzene	ND	vs	5.4	0.56	ug/Kg	☼	04/03/25 18:03	04/03/25 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*04/03/25 18:03*	*04/03/25 23:00*	*1*
4-Bromofluorobenzene (Surr)	*89*		*72 - 126*	*04/03/25 18:03*	*04/03/25 23:00*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*04/03/25 18:03*	*04/03/25 23:00*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*04/03/25 18:03*	*04/03/25 23:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3700	540	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Acenaphthylene	ND		3700	480	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Anthracene	ND		3700	910	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Benzo(a)anthracene	ND		3700	370	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Benzo(a)pyrene	ND		3700	540	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Benzo(b)fluoranthene	ND		3700	580	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Benzo(g,h,i)perylene	ND		3700	390	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Benzo(k)fluoranthene	ND		3700	480	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Chrysene	ND		3700	820	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Dibenz(a,h)anthracene	ND		3700	650	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Dibenzofuran	ND		3700	430	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20

Client Sample ID: Drain 1
Lab Sample ID: 480-228418-13
Date Collected: 04/03/25 11:40
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**550**	**J**	3700	390	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Fluorene	ND		3700	430	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Hexachlorobenzene	ND		3700	500	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Indeno(1,2,3-cd)pyrene	ND		3700	450	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
m-Cresol	ND		7100	560	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Naphthalene	ND		3700	480	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
1,4-Dioxane	ND		2200	1200	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
o-Cresol	ND		3700	430	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
p-Cresol	ND		7100	430	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Pentachlorophenol	ND		7100	3700	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Phenanthrene	ND		3700	540	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Phenol	ND		3700	560	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20
Pyrene	**430**	**J**	3700	430	ug/Kg	☼	04/04/25 06:55	04/07/25 16:59	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*103*		*26 - 143*	*04/04/25 06:55*	*04/07/25 16:59*	*20*
2-Fluorobiphenyl	*91*		*50 - 121*	*04/04/25 06:55*	*04/07/25 16:59*	*20*
2-Fluorophenol	*70*		*36 - 120*	*04/04/25 06:55*	*04/07/25 16:59*	*20*
Nitrobenzene-d5	*67*		*40 - 121*	*04/04/25 06:55*	*04/07/25 16:59*	*20*
Phenol-d5	*97*		*41 - 120*	*04/04/25 06:55*	*04/07/25 16:59*	*20*
p-Terphenyl-d14	*93*		*46 - 143*	*04/04/25 06:55*	*04/07/25 16:59*	*20*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		3.4	1.1	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5
Arsenic	**13.6**		11.5	5.0	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5
Barium	**227**	**F1**	2.9	0.80	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5
Beryllium	**1.0**	**J**	1.1	0.23	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5
Cadmium	**4.7**		1.1	0.40	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5
Chromium	**46.9**	**F1**	2.9	2.1	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5
Copper	**54.9**	**F1**	5.7	3.3	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5
Manganese	**3180**		5.7	1.6	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5
Nickel	**31.8**	**F1**	28.7	1.4	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5
Lead	**552**	**F2**	5.7	2.6	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5
Selenium	ND		22.9	4.6	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5
Zinc	**1260**		11.5	5.8	mg/Kg	☼	04/04/25 14:42	04/07/25 15:06	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.022	0.0051	mg/Kg	☼	04/07/25 08:39	04/07/25 10:07	1

Client Sample ID: Drain 2
Lab Sample ID: 480-228418-14
Date Collected: 04/03/25 11:50
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 90.5

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	vs	5.4	0.39	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
1,1-Dichloroethane	ND	vs	5.4	0.65	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
1,1-Dichloroethene	ND	vs	5.4	0.66	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Trimethylbenzene, 1,2,4-	ND	vs	5.4	1.0	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1

Client Sample ID: Drain 2
Lab Sample ID: 480-228418-14
Date Collected: 04/03/25 11:50
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND	vs	5.4	0.42	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
1,2-Dichloroethane	ND	vs	5.4	0.27	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Trimethylbenzene, 1,3,5-	ND	vs	5.4	0.35	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
1,3-Dichlorobenzene	ND	vs	5.4	0.28	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
1,4-Dichlorobenzene	ND	vs	5.4	0.75	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
1,4-Dioxane	ND	vs	110	23	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Methyl Ethyl Ketone	ND	vs	27	2.0	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Acetone	ND	vs	27	4.5	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Benzene	ND	vs	5.4	0.26	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Carbon tetrachloride	ND	vs	5.4	0.52	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Chlorobenzene	ND	vs	5.4	0.71	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Chloroform	**0.64**	**J B vs**	5.4	0.33	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
1,2-Dichloroethene, cis-	ND	vs	5.4	0.69	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Ethylbenzene	ND	vs	5.4	0.37	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Methyl tert-butyl ether	ND	vs	5.4	0.53	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Methylene Chloride	ND	vs	5.4	2.5	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Butylbenzene	ND	vs	5.4	0.47	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Propylbenzene, n-	ND	vs	5.4	0.43	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
sec-Butylbenzene	ND	vs	5.4	0.47	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Tetrachloroethene	ND	vs	5.4	0.72	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Toluene	ND	vs	5.4	0.41	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
1,2-Dichloroethene, trans-	ND	vs	5.4	0.55	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Trichloroethene	ND	vs	5.4	1.2	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Vinyl chloride	ND	vs	5.4	0.65	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
Xylene (mixed)	ND	vs	11	0.90	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1
tert-Butylbenzene	ND	vs	5.4	0.56	ug/Kg	☼	04/03/25 18:03	04/03/25 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 126*	*04/03/25 18:03*	*04/03/25 23:23*	*1*
4-Bromofluorobenzene (Surr)	*89*		*72 - 126*	*04/03/25 18:03*	*04/03/25 23:23*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*04/03/25 18:03*	*04/03/25 23:23*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*04/03/25 18:03*	*04/03/25 23:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1900	270	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Acenaphthylene	ND		1900	240	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Anthracene	ND		1900	460	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Benzo(a)anthracene	ND		1900	190	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Benzo(a)pyrene	**400**	**J**	1900	270	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Benzo(b)fluoranthene	**540**	**J**	1900	300	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Benzo(g,h,i)perylene	**360**	**J**	1900	200	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Benzo(k)fluoranthene	**300**	**J**	1900	240	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Chrysene	ND		1900	420	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Dibenz(a,h)anthracene	ND		1900	330	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Dibenzofuran	ND		1900	220	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Fluoranthene	**860**	**J**	1900	200	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Fluorene	ND		1900	220	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Hexachlorobenzene	ND		1900	250	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Indeno(1,2,3-cd)pyrene	**340**	**J**	1900	230	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10

Client Sample ID: Drain 2
Lab Sample ID: 480-228418-14
Date Collected: 04/03/25 11:50
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Cresol	ND		3600	290	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Naphthalene	ND		1900	240	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
1,4-Dioxane	ND		1100	600	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
o-Cresol	ND		1900	220	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
p-Cresol	ND		3600	220	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Pentachlorophenol	ND		3600	1900	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Phenanthrene	**340**	**J**	1900	270	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Phenol	ND		1900	290	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10
Pyrene	**650**	**J**	1900	220	ug/Kg	☼	04/04/25 06:55	04/07/25 17:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*26 - 143*	*04/04/25 06:55*	*04/07/25 17:23*	*10*
2-Fluorobiphenyl	*76*		*50 - 121*	*04/04/25 06:55*	*04/07/25 17:23*	*10*
2-Fluorophenol	*63*		*36 - 120*	*04/04/25 06:55*	*04/07/25 17:23*	*10*
Nitrobenzene-d5	*74*		*40 - 121*	*04/04/25 06:55*	*04/07/25 17:23*	*10*
Phenol-d5	*72*		*41 - 120*	*04/04/25 06:55*	*04/07/25 17:23*	*10*
p-Terphenyl-d14	*82*		*46 - 143*	*04/04/25 06:55*	*04/07/25 17:23*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.65	0.22	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1
Arsenic	**4.5**		2.2	0.96	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1
Barium	**59.8**		0.54	0.15	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1
Beryllium	**0.31**		0.22	0.044	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1
Cadmium	**1.2**		0.22	0.076	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1
Chromium	**11.3**		0.54	0.39	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1
Copper	**19.0**		1.1	0.62	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1
Manganese	**471**		1.1	0.31	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1
Nickel	**11.2**		5.4	0.27	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1
Lead	**144**		1.1	0.50	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1
Selenium	**0.88**	**J**	4.4	0.87	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1
Zinc	**373**		2.2	1.1	mg/Kg	☼	04/04/25 14:42	04/07/25 15:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.023	0.0052	mg/Kg	☼	04/07/25 08:39	04/07/25 10:08	1

Client Sample ID: Drain 3
Lab Sample ID: 480-228418-15
Date Collected: 04/03/25 12:00
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 91.5

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	vs	5.4	0.39	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
1,1-Dichloroethane	ND	vs	5.4	0.66	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
1,1-Dichloroethene	ND	vs	5.4	0.66	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Trimethylbenzene, 1,2,4-	ND	vs	5.4	1.0	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
1,2-Dichlorobenzene	ND	vs	5.4	0.42	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
1,2-Dichloroethane	ND	vs	5.4	0.27	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Trimethylbenzene, 1,3,5-	ND	vs	5.4	0.35	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
1,3-Dichlorobenzene	ND	vs	5.4	0.28	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1

Client Sample ID: Drain 3
Lab Sample ID: 480-228418-15
Date Collected: 04/03/25 12:00
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	vs	5.4	0.75	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
1,4-Dioxane	ND	vs	110	23	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Methyl Ethyl Ketone	ND	vs	27	2.0	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Acetone	ND	vs	27	4.5	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Benzene	ND	vs	5.4	0.26	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Carbon tetrachloride	ND	vs	5.4	0.52	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Chlorobenzene	ND	vs	5.4	0.71	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Chloroform	**0.63**	**J B vs**	5.4	0.33	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
1,2-Dichloroethene, cis-	ND	vs	5.4	0.69	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Ethylbenzene	ND	vs	5.4	0.37	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Methyl tert-butyl ether	ND	vs	5.4	0.53	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Methylene Chloride	ND	vs	5.4	2.5	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Butylbenzene	ND	vs	5.4	0.47	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Propylbenzene, n-	ND	vs	5.4	0.43	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
sec-Butylbenzene	ND	vs	5.4	0.47	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Tetrachloroethene	ND	vs	5.4	0.72	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Toluene	ND	vs	5.4	0.41	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
1,2-Dichloroethene, trans-	ND	vs	5.4	0.56	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Trichloroethene	ND	vs	5.4	1.2	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Vinyl chloride	ND	vs	5.4	0.66	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
Xylene (mixed)	ND	vs	11	0.90	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1
tert-Butylbenzene	ND	vs	5.4	0.56	ug/Kg	☼	04/03/25 18:03	04/03/25 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*04/03/25 18:03*	*04/03/25 23:46*	*1*
4-Bromofluorobenzene (Surr)	*88*		*72 - 126*	*04/03/25 18:03*	*04/03/25 23:46*	*1*
Toluene-d8 (Surr)	*97*		*71 - 125*	*04/03/25 18:03*	*04/03/25 23:46*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*04/03/25 18:03*	*04/03/25 23:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		910	130	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Acenaphthylene	ND		910	120	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Anthracene	ND		910	220	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Benzo(a)anthracene	**260**	**J**	910	91	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Benzo(a)pyrene	**300**	**J**	910	130	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Benzo(b)fluoranthene	**290**	**J**	910	140	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Benzo(g,h,i)perylene	**220**	**J**	910	96	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Benzo(k)fluoranthene	**270**	**J**	910	120	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Chrysene	**280**	**J**	910	200	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Dibenz(a,h)anthracene	ND		910	160	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Dibenzofuran	ND		910	110	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Fluoranthene	**540**	**J**	910	96	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Fluorene	ND		910	110	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Hexachlorobenzene	ND		910	120	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Indeno(1,2,3-cd)pyrene	**180**	**J**	910	110	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
m-Cresol	ND		1800	140	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Naphthalene	ND		910	120	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
1,4-Dioxane	ND		530	290	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
o-Cresol	ND		910	110	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5

Client Sample ID: Drain 3

Lab Sample ID: 480-228418-15
Date Collected: 04/03/25 12:00
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Cresol	ND		1800	110	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Pentachlorophenol	ND		1800	910	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Phenanthrene	**230**	**J**	910	130	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Phenol	ND		910	140	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5
Pyrene	**430**	**J**	910	110	ug/Kg	☼	04/04/25 06:55	04/07/25 17:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*26 - 143*	*04/04/25 06:55*	*04/07/25 17:48*	*5*
2-Fluorobiphenyl	*84*		*50 - 121*	*04/04/25 06:55*	*04/07/25 17:48*	*5*
2-Fluorophenol	*72*		*36 - 120*	*04/04/25 06:55*	*04/07/25 17:48*	*5*
Nitrobenzene-d5	*80*		*40 - 121*	*04/04/25 06:55*	*04/07/25 17:48*	*5*
Phenol-d5	*83*		*41 - 120*	*04/04/25 06:55*	*04/07/25 17:48*	*5*
p-Terphenyl-d14	*88*		*46 - 143*	*04/04/25 06:55*	*04/07/25 17:48*	*5*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.68	0.23	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1
Arsenic	**3.1**		2.3	1.0	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1
Barium	**59.2**		0.57	0.16	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1
Beryllium	**0.33**		0.23	0.045	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1
Cadmium	**0.81**		0.23	0.079	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1
Chromium	**11.4**		0.57	0.41	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1
Copper	**21.5**		1.1	0.65	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1
Manganese	**546**		1.1	0.32	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1
Nickel	**9.2**		5.7	0.28	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1
Lead	**148**		1.1	0.52	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1
Selenium	ND		4.5	0.91	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1
Zinc	**267**		2.3	1.2	mg/Kg	☼	04/04/25 14:42	04/07/25 15:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.022	0.0051	mg/Kg	☼	04/07/25 08:39	04/07/25 10:09	1

Client Sample ID: Drain 4

Lab Sample ID: 480-228418-16
Date Collected: 04/03/25 12:10
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 92.0

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	vs	5.4	0.39	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
1,1-Dichloroethane	ND	vs	5.4	0.65	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
1,1-Dichloroethene	ND	vs	5.4	0.65	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Trimethylbenzene, 1,2,4-	ND	vs	5.4	1.0	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
1,2-Dichlorobenzene	ND	vs	5.4	0.42	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
1,2-Dichloroethane	ND	vs	5.4	0.27	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Trimethylbenzene, 1,3,5-	ND	vs	5.4	0.34	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
1,3-Dichlorobenzene	ND	vs	5.4	0.28	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
1,4-Dichlorobenzene	ND	vs	5.4	0.75	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
1,4-Dioxane	ND	vs	110	23	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Methyl Ethyl Ketone	ND	vs	27	2.0	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Acetone	ND	vs	27	4.5	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Client Sample ID: Drain 4
Date Collected: 04/03/25 12:10
Date Received: 04/03/25 13:45

Lab Sample ID: 480-228418-16
Matrix: Solid
Percent Solids: 92.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	vs	5.4	0.26	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Carbon tetrachloride	ND	vs	5.4	0.52	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Chlorobenzene	ND	vs	5.4	0.71	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Chloroform	**0.67**	**J B vs**	5.4	0.33	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
1,2-Dichloroethene, cis-	ND	vs	5.4	0.68	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Ethylbenzene	ND	vs	5.4	0.37	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Methyl tert-butyl ether	ND	vs	5.4	0.53	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Methylene Chloride	ND	vs	5.4	2.5	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Butylbenzene	ND	vs	5.4	0.47	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Propylbenzene, n-	ND	vs	5.4	0.43	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
sec-Butylbenzene	ND	vs	5.4	0.47	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Tetrachloroethene	ND	vs	5.4	0.72	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Toluene	ND	vs	5.4	0.40	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
1,2-Dichloroethene, trans-	ND	vs	5.4	0.55	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Trichloroethene	ND	vs	5.4	1.2	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Vinyl chloride	ND	vs	5.4	0.65	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
Xylene (mixed)	ND	vs	11	0.90	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1
tert-Butylbenzene	ND	vs	5.4	0.56	ug/Kg	☼	04/03/25 18:03	04/04/25 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*	*04/03/25 18:03*	*04/04/25 00:10*	*1*
4-Bromofluorobenzene (Surr)	*89*		*72 - 126*	*04/03/25 18:03*	*04/04/25 00:10*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*04/03/25 18:03*	*04/04/25 00:10*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*	*04/03/25 18:03*	*04/04/25 00:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9100	1300	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Acenaphthylene	ND		9100	1200	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Anthracene	ND		9100	2200	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Benzo(a)anthracene	ND		9100	910	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Benzo(a)pyrene	ND		9100	1300	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Benzo(b)fluoranthene	ND		9100	1400	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Benzo(g,h,i)perylene	ND		9100	960	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Benzo(k)fluoranthene	ND		9100	1200	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Chrysene	ND		9100	2000	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Dibenz(a,h)anthracene	ND		9100	1600	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Dibenzofuran	ND		9100	1100	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Fluoranthene	ND		9100	960	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Fluorene	ND		9100	1100	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Hexachlorobenzene	ND		9100	1200	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Indeno(1,2,3-cd)pyrene	ND		9100	1100	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
m-Cresol	ND		18000	1400	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Naphthalene	ND		9100	1200	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
1,4-Dioxane	ND		5400	2900	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
o-Cresol	ND		9100	1100	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
p-Cresol	ND		18000	1100	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Pentachlorophenol	ND		18000	9100	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Phenanthrene	ND		9100	1300	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50
Phenol	ND		9100	1400	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Client Sample ID: Drain 4
Lab Sample ID: 480-228418-16
Date Collected: 04/03/25 12:10
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 92.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		9100	1100	ug/Kg	☼	04/04/25 06:55	04/07/25 18:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*169*	*S1+*	*26 - 143*	*04/04/25 06:55*	*04/07/25 18:12*	*50*
2-Fluorobiphenyl	*143*	*S1+*	*50 - 121*	*04/04/25 06:55*	*04/07/25 18:12*	*50*
2-Fluorophenol	*0*	*S1-*	*36 - 120*	*04/04/25 06:55*	*04/07/25 18:12*	*50*
Nitrobenzene-d5	*105*		*40 - 121*	*04/04/25 06:55*	*04/07/25 18:12*	*50*
Phenol-d5	*144*	*S1+*	*41 - 120*	*04/04/25 06:55*	*04/07/25 18:12*	*50*
p-Terphenyl-d14	*121*		*46 - 143*	*04/04/25 06:55*	*04/07/25 18:12*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.66	0.22	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1
Arsenic	**2.0**	**J**	2.2	0.97	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1
Barium	**40.5**		0.55	0.15	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1
Beryllium	**0.24**		0.22	0.044	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1
Cadmium	**1.1**		0.22	0.077	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1
Chromium	**15.0**		0.55	0.40	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1
Copper	**12.6**		1.1	0.63	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1
Manganese	**550**		1.1	0.31	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1
Nickel	**8.9**		5.5	0.28	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1
Lead	**113**		1.1	0.51	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1
Selenium	ND		4.4	0.89	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1
Zinc	**316**		2.2	1.1	mg/Kg	☼	04/04/25 14:42	04/07/25 15:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.069**		0.022	0.0050	mg/Kg	☼	04/07/25 08:39	04/07/25 10:11	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

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)
480-228418-13	Drain 1	108	89	98	102
480-228418-14	Drain 2	109	89	98	102
480-228418-15	Drain 3	104	88	97	101
480-228418-16	Drain 4	107	89	99	100
LCS 480-742665/1-A	Lab Control Sample	102	87	99	97
MB 480-742665/2-A	Method Blank	105	89	97	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (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	(77-120)	(73-120)	(80-120)	(75-123)
LCS 480-742831/6	Lab Control Sample	105	97	105	105
LCSD 480-742831/7	Lab Control Sample Dup	104	99	106	102
MB 480-742831/9	Method Blank	100	104	104	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-228418-1	D1	101	102	107	105
480-228418-2	D2	101	100	108	107
480-228418-3	D3	101	101	107	105
480-228418-4	D4	100	102	104	105
480-228418-5	D5	101	102	108	107
480-228418-6	D6	101	101	106	107
480-228418-7	D7	100	97	109	106
480-228418-8	D8	100	101	106	106
480-228418-9	D9	101	101	105	104
480-228418-10	D10	102	102	106	108
480-228418-11	D11	101	103	106	106
480-228418-12	D12	101	103	108	106
LB 480-742808/1-A	Method Blank	99	103	106	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

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	PHL	TPHd14
Lab Sample ID	Client Sample ID	(26-143)	(50-121)	(36-120)	(40-121)	(41-120)	(46-143)
480-228418-13	Drain 1	103	91	70	67	97	93
480-228418-14	Drain 2	70	76	63	74	72	82
480-228418-15	Drain 3	89	84	72	80	83	88
480-228418-16	Drain 4	169 S1+	143 S1+	0 S1-	105	144 S1+	121
LCS 480-742676/2-A	Lab Control Sample	107	90	81	86	86	97
LCSD 480-742676/3-A	Lab Control Sample Dup	105	95	83	86	91	94
MB 480-742676/1-A	Method Blank	89	85	75	83	80	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

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

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(10-120)	(33-132)
LCS 480-742843/2-A	Lab Control Sample	90	81	59	78	45	87
MB 480-742843/1-A	Method Blank	65	62	43	58	29	82

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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)
480-228418-1	D1	84	80	52	71	77	35
480-228418-1 MS	D1	86	76	52	72	70	40
480-228418-1 MSD	D1	87	79	55	75	71	41
480-228418-2	D2	68	65	43	58	68	30
480-228418-3	D3	60	74	49	67	71	33
480-228418-4	D4	80	74	46	64	73	32
480-228418-5	D5	64	75	49	67	69	33
480-228418-6	D6	69	76	48	68	86	34
480-228418-7	D7	56	67	42	62	70	29
480-228418-8	D8	68	69	47	65	76	31

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

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

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)		
480-228418-9	D9	66	70	45	65	77	31		
480-228418-10	D10	74	73	47	66	80	33		
480-228418-11	D11	76	76	51	69	72	35		
480-228418-12	D12	73	78	48	69	75	34		
LB 480-742807/1-C	Method Blank	79	78	51	71	68	35		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

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

Lab Sample ID: MB 480-742665/2-A
Matrix: Solid
Analysis Batch: 742666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742665

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Trimethylbenzene, 1,2,4-	ND		5.0	0.96	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Trimethylbenzene, 1,3,5-	ND		5.0	0.32	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
1,4-Dioxane	ND		100	22	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Methyl Ethyl Ketone	ND		25	1.8	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Acetone	ND		25	4.2	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Benzene	ND		5.0	0.25	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Chloroform	0.604	J	5.0	0.31	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
1,2-Dichloroethene, cis-	ND		5.0	0.64	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Butylbenzene	ND		5.0	0.44	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Propylbenzene, n-	ND		5.0	0.40	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Toluene	ND		5.0	0.38	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
1,2-Dichloroethene, trans-	ND		5.0	0.52	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Trichloroethene	ND		5.0	1.1	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
Xylene (mixed)	ND		10	0.84	ug/Kg		04/03/25 18:03	04/03/25 21:23	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		04/03/25 18:03	04/03/25 21:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*04/03/25 18:03*	*04/03/25 21:23*	*1*
4-Bromofluorobenzene (Surr)	*89*		*72 - 126*	*04/03/25 18:03*	*04/03/25 21:23*	*1*
Toluene-d8 (Surr)	*97*		*71 - 125*	*04/03/25 18:03*	*04/03/25 21:23*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*04/03/25 18:03*	*04/03/25 21:23*	*1*

Lab Sample ID: LCS 480-742665/1-A
Matrix: Solid
Analysis Batch: 742666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.7		ug/Kg		95	77 - 121
1,1-Dichloroethane	50.0	51.8		ug/Kg		104	73 - 126
Trimethylbenzene, 1,2,4-	50.0	52.5		ug/Kg		105	74 - 120
1,2-Dichlorobenzene	50.0	47.3		ug/Kg		95	75 - 120
1,2-Dichloroethane	50.0	51.5		ug/Kg		103	77 - 122
Trimethylbenzene, 1,3,5-	50.0	54.0		ug/Kg		108	74 - 120

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

Lab Sample ID: LCS 480-742665/1-A
Matrix: Solid
Analysis Batch: 742666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	50.0	47.6		ug/Kg		95	74 - 120
1,4-Dichlorobenzene	50.0	46.9		ug/Kg		94	73 - 120
1,4-Dioxane	1000	978		ug/Kg		98	64 - 124
Methyl Ethyl Ketone	250	311		ug/Kg		124	70 - 134
1,1-Dichloroethene	50.0	48.0		ug/Kg		96	59 - 125
Acetone	250	291		ug/Kg		116	61 - 137
Benzene	50.0	49.0		ug/Kg		98	79 - 127
Carbon tetrachloride	50.0	48.0		ug/Kg		96	75 - 135
Chlorobenzene	50.0	45.2		ug/Kg		90	76 - 124
Chloroform	50.0	48.2		ug/Kg		96	80 - 120
1,2-Dichloroethene, cis-	50.0	47.5		ug/Kg		95	81 - 120
Ethylbenzene	50.0	46.6		ug/Kg		93	80 - 120
Methyl tert-butyl ether	50.0	47.1		ug/Kg		94	63 - 125
Methylene Chloride	50.0	48.5		ug/Kg		97	61 - 127
Butylbenzene	50.0	51.9		ug/Kg		104	70 - 120
Propylbenzene, n-	50.0	55.7		ug/Kg		111	70 - 130
sec-Butylbenzene	50.0	53.6		ug/Kg		107	74 - 120
Tetrachloroethene	50.0	45.0		ug/Kg		90	74 - 122
Toluene	50.0	47.7		ug/Kg		95	74 - 128
1,2-Dichloroethene, trans-	50.0	47.8		ug/Kg		96	78 - 126
Trichloroethene	50.0	48.4		ug/Kg		97	77 - 129
Vinyl chloride	50.0	42.7		ug/Kg		85	61 - 133
tert-Butylbenzene	50.0	53.5		ug/Kg		107	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*
4-Bromofluorobenzene (Surr)	*87*		*72 - 126*
Toluene-d8 (Surr)	*99*		*71 - 125*
Dibromofluoromethane (Surr)	*97*		*60 - 140*

Lab Sample ID: MB 480-742831/9
Matrix: Solid
Analysis Batch: 742831

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			04/07/25 12:04	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			04/07/25 12:04	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			04/07/25 12:04	1
Benzene	ND		0.0010	0.00041	mg/L			04/07/25 12:04	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			04/07/25 12:04	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			04/07/25 12:04	1
Chloroform	ND		0.0010	0.00034	mg/L			04/07/25 12:04	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			04/07/25 12:04	1
Trichloroethene	ND		0.0010	0.00046	mg/L			04/07/25 12:04	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			04/07/25 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*04/07/25 12:04*	*1*

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

Lab Sample ID: MB 480-742831/9
Matrix: Solid
Analysis Batch: 742831

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*04/07/25 12:04*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*04/07/25 12:04*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*04/07/25 12:04*	*1*

Lab Sample ID: LCS 480-742831/6
Matrix: Solid
Analysis Batch: 742831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	0.0250	0.0231		mg/L		92	75 - 120
2-Butanone (MEK)	0.125	0.120		mg/L		96	57 - 140
1,1-Dichloroethene	0.0250	0.0272		mg/L		109	66 - 127
Benzene	0.0250	0.0248		mg/L		99	71 - 124
Carbon tetrachloride	0.0250	0.0296		mg/L		118	72 - 134
Chlorobenzene	0.0250	0.0245		mg/L		98	80 - 120
Chloroform	0.0250	0.0229		mg/L		92	73 - 127
Tetrachloroethene	0.0250	0.0289		mg/L		115	74 - 122
Trichloroethene	0.0250	0.0258		mg/L		103	74 - 123
Vinyl chloride	0.0250	0.0265		mg/L		106	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 123*

Lab Sample ID: LCSD 480-742831/7
Matrix: Solid
Analysis Batch: 742831

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	0.0232		mg/L		93	75 - 120	1	20
2-Butanone (MEK)	0.125	0.117		mg/L		93	57 - 140	3	20
1,1-Dichloroethene	0.0250	0.0274		mg/L		110	66 - 127	1	16
Benzene	0.0250	0.0256		mg/L		102	71 - 124	3	13
Carbon tetrachloride	0.0250	0.0301		mg/L		120	72 - 134	2	15
Chlorobenzene	0.0250	0.0258		mg/L		103	80 - 120	5	25
Chloroform	0.0250	0.0231		mg/L		92	73 - 127	1	20
Tetrachloroethene	0.0250	0.0303		mg/L		121	74 - 122	5	20
Trichloroethene	0.0250	0.0263		mg/L		105	74 - 123	2	16
Vinyl chloride	0.0250	0.0262		mg/L		105	65 - 133	1	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

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

Lab Sample ID: LB 480-742808/1-A
Matrix: Solid
Analysis Batch: 742831

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/07/25 12:32	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/07/25 12:32	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/07/25 12:32	10
Benzene	ND		0.010	0.0041	mg/L			04/07/25 12:32	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/07/25 12:32	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/07/25 12:32	10
Chloroform	ND		0.010	0.0034	mg/L			04/07/25 12:32	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/07/25 12:32	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/07/25 12:32	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/07/25 12:32	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*04/07/25 12:32*	*10*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*04/07/25 12:32*	*10*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/07/25 12:32*	*10*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*04/07/25 12:32*	*10*

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

Lab Sample ID: MB 480-742676/1-A
Matrix: Solid
Analysis Batch: 742846

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742676

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		170	25	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Acenaphthylene	ND		170	22	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Anthracene	ND		170	42	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Benzo(a)anthracene	ND		170	17	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Benzo(a)pyrene	ND		170	25	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Benzo(b)fluoranthene	ND		170	27	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Benzo(g,h,i)perylene	ND		170	18	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Benzo(k)fluoranthene	ND		170	22	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Chrysene	ND		170	38	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Dibenzofuran	ND		170	20	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Fluoranthene	ND		170	18	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Fluorene	ND		170	20	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Hexachlorobenzene	ND		170	23	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Indeno(1,2,3-cd)pyrene	ND		170	21	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
m-Cresol	ND		330	26	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Naphthalene	ND		170	22	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
1,4-Dioxane	ND		100	55	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
o-Cresol	ND		170	20	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
p-Cresol	ND		330	20	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Pentachlorophenol	ND		330	170	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Phenanthrene	ND		170	25	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Phenol	ND		170	26	ug/Kg		04/04/25 06:55	04/07/25 14:32	1
Pyrene	ND		170	20	ug/Kg		04/04/25 06:55	04/07/25 14:32	1

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

Lab Sample ID: MB 480-742676/1-A
Matrix: Solid
Analysis Batch: 742846

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742676

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		26 - 143	04/04/25 06:55	04/07/25 14:32	1
2-Fluorobiphenyl	85		50 - 121	04/04/25 06:55	04/07/25 14:32	1
2-Fluorophenol	75		36 - 120	04/04/25 06:55	04/07/25 14:32	1
Nitrobenzene-d5	83		40 - 121	04/04/25 06:55	04/07/25 14:32	1
Phenol-d5	80		41 - 120	04/04/25 06:55	04/07/25 14:32	1
p-Terphenyl-d14	84		46 - 143	04/04/25 06:55	04/07/25 14:32	1

Lab Sample ID: LCS 480-742676/2-A
Matrix: Solid
Analysis Batch: 742846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1330	1190		ug/Kg		89	62 - 120
Acenaphthylene	1330	1230		ug/Kg		92	58 - 121
Anthracene	1330	1300		ug/Kg		97	62 - 120
Benzo(a)anthracene	1330	1320		ug/Kg		99	65 - 120
Benzo(a)pyrene	1330	1310		ug/Kg		98	64 - 120
Benzo(b)fluoranthene	1330	1220		ug/Kg		92	64 - 120
Benzo(g,h,i)perylene	1330	1400		ug/Kg		105	45 - 145
Benzo(k)fluoranthene	1330	1390		ug/Kg		104	65 - 120
Chrysene	1330	1280		ug/Kg		96	64 - 120
Dibenz(a,h)anthracene	1330	1430		ug/Kg		107	54 - 132
Dibenzofuran	1330	1250		ug/Kg		94	63 - 120
Fluoranthene	1330	1300		ug/Kg		97	62 - 120
Fluorene	1330	1320		ug/Kg		99	63 - 120
Hexachlorobenzene	1330	1380		ug/Kg		104	60 - 120
Indeno(1,2,3-cd)pyrene	1330	1390		ug/Kg		105	56 - 134
m-Cresol	1330	1250		ug/Kg		94	55 - 120
Naphthalene	1330	1110		ug/Kg		83	55 - 120
1,4-Dioxane	1330	662		ug/Kg		50	23 - 120
o-Cresol	1330	1190		ug/Kg		89	54 - 120
p-Cresol	1330	1250		ug/Kg		94	55 - 120
Pentachlorophenol	2670	2690		ug/Kg		101	10 - 120
Phenanthrene	1330	1290		ug/Kg		97	60 - 120
Phenol	1330	1090		ug/Kg		81	53 - 120
Pyrene	1330	1240		ug/Kg		93	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	107		26 - 143
2-Fluorobiphenyl	90		50 - 121
2-Fluorophenol	81		36 - 120
Nitrobenzene-d5	86		40 - 121
Phenol-d5	86		41 - 120
p-Terphenyl-d14	97		46 - 143

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

Lab Sample ID: LCSD 480-742676/3-A
Matrix: Solid
Analysis Batch: 742846

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 742676

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			1330	1230		ug/Kg		93	62 - 120	4	35
Acenaphthylene			1330	1270		ug/Kg		96	58 - 121	4	18
Anthracene			1330	1240		ug/Kg		93	62 - 120	5	15
Benzo(a)anthracene			1330	1280		ug/Kg		96	65 - 120	4	15
Benzo(a)pyrene			1330	1320		ug/Kg		99	64 - 120	0	15
Benzo(b)fluoranthene			1330	1230		ug/Kg		92	64 - 120	1	15
Benzo(g,h,i)perylene			1330	1390		ug/Kg		104	45 - 145	1	15
Benzo(k)fluoranthene			1330	1400		ug/Kg		105	65 - 120	1	22
Chrysene			1330	1270		ug/Kg		95	64 - 120	1	15
Dibenz(a,h)anthracene			1330	1450		ug/Kg		108	54 - 132	1	15
Dibenzofuran			1330	1280		ug/Kg		96	63 - 120	3	15
Fluoranthene			1330	1270		ug/Kg		95	62 - 120	2	15
Fluorene			1330	1310		ug/Kg		98	63 - 120	1	15
Hexachlorobenzene			1330	1340		ug/Kg		101	60 - 120	3	15
Indeno(1,2,3-cd)pyrene			1330	1390		ug/Kg		104	56 - 134	0	15
m-Cresol			1330	1320		ug/Kg		99	55 - 120	5	24
Naphthalene			1330	1130		ug/Kg		85	55 - 120	2	29
1,4-Dioxane			1330	796		ug/Kg		60	23 - 120	18	50
o-Cresol			1330	1250		ug/Kg		94	54 - 120	6	27
p-Cresol			1330	1320		ug/Kg		99	55 - 120	5	24
Pentachlorophenol			2670	2560		ug/Kg		96	10 - 120	5	35
Phenanthrene			1330	1210		ug/Kg		91	60 - 120	6	15
Phenol			1330	1120		ug/Kg		84	53 - 120	3	35
Pyrene			1330	1190		ug/Kg		89	61 - 133	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*105*		*26 - 143*
2-Fluorobiphenyl	*95*		*50 - 121*
2-Fluorophenol	*83*		*36 - 120*
Nitrobenzene-d5	*86*		*40 - 121*
Phenol-d5	*91*		*41 - 120*
p-Terphenyl-d14	*94*		*46 - 143*

Lab Sample ID: MB 480-742843/1-A
Matrix: Solid
Analysis Batch: 742916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		04/07/25 08:49	04/07/25 16:22	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/07/25 16:22	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/07/25 16:22	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/07/25 16:22	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/07/25 16:22	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/07/25 16:22	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/07/25 16:22	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/07/25 16:22	1
Pyridine	ND		0.10	0.0016	mg/L		04/07/25 08:49	04/07/25 16:22	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/07/25 16:22	1

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

Lab Sample ID: MB 480-742843/1-A
Matrix: Solid
Analysis Batch: 742916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/07/25 16:22	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/07/25 16:22	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/07/25 16:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*65*		*25 - 144*	*04/07/25 08:49*	*04/07/25 16:22*	*1*
2-Fluorobiphenyl (Surr)	*62*		*53 - 126*	*04/07/25 08:49*	*04/07/25 16:22*	*1*
2-Fluorophenol (Surr)	*43*		*24 - 120*	*04/07/25 08:49*	*04/07/25 16:22*	*1*
Nitrobenzene-d5 (Surr)	*58*		*29 - 129*	*04/07/25 08:49*	*04/07/25 16:22*	*1*
Phenol-d5 (Surr)	*29*		*10 - 120*	*04/07/25 08:49*	*04/07/25 16:22*	*1*
p-Terphenyl-d14 (Surr)	*82*		*33 - 132*	*04/07/25 08:49*	*04/07/25 16:22*	*1*

Lab Sample ID: LCS 480-742843/2-A
Matrix: Solid
Analysis Batch: 742916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.0320	0.0243	J	mg/L		76	42 - 120
2,4-Dinitrotoluene	0.0320	0.0298		mg/L		93	69 - 120
2,4,5-Trichlorophenol	0.0320	0.0273		mg/L		85	65 - 126
2,4,6-Trichlorophenol	0.0320	0.0255		mg/L		80	64 - 120
Hexachlorobutadiene	0.0320	0.0227		mg/L		71	35 - 120
Hexachloroethane	0.0320	0.0224		mg/L		70	33 - 120
Nitrobenzene	0.0320	0.0255		mg/L		80	53 - 123
Hexachlorobenzene	0.0320	0.0272		mg/L		85	61 - 120
Pyridine	0.0640	0.0114	J	mg/L		18	10 - 120
3-Methylphenol	0.0320	0.0230	J	mg/L		72	39 - 120
2-Methylphenol	0.0320	0.0241		mg/L		75	39 - 120
4-Methylphenol	0.0320	0.0230	J	mg/L		72	29 - 131
Pentachlorophenol	0.0640	0.0587		mg/L		92	10 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*90*		*25 - 144*
2-Fluorobiphenyl (Surr)	*81*		*53 - 126*
2-Fluorophenol (Surr)	*59*		*24 - 120*
Nitrobenzene-d5 (Surr)	*78*		*29 - 129*
Phenol-d5 (Surr)	*45*		*10 - 120*
p-Terphenyl-d14 (Surr)	*87*		*33 - 132*

Lab Sample ID: LB 480-742807/1-C
Matrix: Solid
Analysis Batch: 742916

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 742843

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		04/07/25 08:49	04/07/25 17:17	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		04/07/25 08:49	04/07/25 17:17	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		04/07/25 08:49	04/07/25 17:17	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		04/07/25 08:49	04/07/25 17:17	1

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

Lab Sample ID: LB 480-742807/1-C
Matrix: Solid
Analysis Batch: 742916

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 742843

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		04/07/25 08:49	04/07/25 17:17	1
Hexachloroethane	ND		0.020	0.0023	mg/L		04/07/25 08:49	04/07/25 17:17	1
Nitrobenzene	ND		0.020	0.0011	mg/L		04/07/25 08:49	04/07/25 17:17	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		04/07/25 08:49	04/07/25 17:17	1
Pyridine	0.00283	J	0.10	0.0016	mg/L		04/07/25 08:49	04/07/25 17:17	1
3-Methylphenol	ND		0.040	0.0016	mg/L		04/07/25 08:49	04/07/25 17:17	1
2-Methylphenol	ND		0.020	0.0016	mg/L		04/07/25 08:49	04/07/25 17:17	1
4-Methylphenol	ND		0.040	0.0014	mg/L		04/07/25 08:49	04/07/25 17:17	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		04/07/25 08:49	04/07/25 17:17	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*25 - 144*	*04/07/25 08:49*	*04/07/25 17:17*	*1*
2-Fluorobiphenyl (Surr)	*78*		*53 - 126*	*04/07/25 08:49*	*04/07/25 17:17*	*1*
2-Fluorophenol (Surr)	*51*		*24 - 120*	*04/07/25 08:49*	*04/07/25 17:17*	*1*
Nitrobenzene-d5 (Surr)	*71*		*29 - 129*	*04/07/25 08:49*	*04/07/25 17:17*	*1*
Phenol-d5 (Surr)	*35*		*10 - 120*	*04/07/25 08:49*	*04/07/25 17:17*	*1*
p-Terphenyl-d14 (Surr)	*68*		*33 - 132*	*04/07/25 08:49*	*04/07/25 17:17*	*1*

Lab Sample ID: 480-228418-1 MS
Matrix: Solid
Analysis Batch: 742916

Client Sample ID: D1
Prep Type: TCLP
Prep Batch: 742843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	ND		0.0320	0.0215	J	mg/L		67	32 - 150
2,4-Dinitrotoluene	ND		0.0320	0.0254		mg/L		79	54 - 138
2,4,5-Trichlorophenol	ND		0.0320	0.0221		mg/L		69	65 - 126
2,4,6-Trichlorophenol	ND		0.0320	0.0286		mg/L		89	64 - 120
Hexachlorobutadiene	ND		0.0320	0.0198	J	mg/L		62	37 - 120
Hexachloroethane	ND		0.0320	0.0194	J	mg/L		61	16 - 130
Nitrobenzene	ND		0.0320	0.0235		mg/L		73	45 - 123
Hexachlorobenzene	ND		0.0320	0.0252		mg/L		79	57 - 121
Pyridine	0.0027	J F1 B	0.0640	0.0116	J F1	mg/L		14	79 - 120
3-Methylphenol	ND		0.0320	0.0207	J	mg/L		65	32 - 120
2-Methylphenol	ND		0.0320	0.0225		mg/L		70	46 - 120
4-Methylphenol	ND		0.0320	0.0207	J	mg/L		65	36 - 120
Pentachlorophenol	ND		0.0640	0.0585		mg/L		91	10 - 149

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*25 - 144*
2-Fluorobiphenyl (Surr)	*76*		*53 - 126*
2-Fluorophenol (Surr)	*52*		*24 - 120*
Nitrobenzene-d5 (Surr)	*72*		*29 - 129*
Phenol-d5 (Surr)	*40*		*10 - 120*
p-Terphenyl-d14 (Surr)	*70*		*33 - 132*

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

Lab Sample ID: 480-228418-1 MSD
Matrix: Solid
Analysis Batch: 742916

Client Sample ID: D1
Prep Type: TCLP
Prep Batch: 742843

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		0.0320	0.0224	J	mg/L		70	32 - 150	4	36
2,4-Dinitrotoluene	ND		0.0320	0.0245		mg/L		77	54 - 138	3	20
2,4,5-Trichlorophenol	ND		0.0320	0.0225		mg/L		70	65 - 126	2	18
2,4,6-Trichlorophenol	ND		0.0320	0.0292		mg/L		91	64 - 120	2	19
Hexachlorobutadiene	ND		0.0320	0.0210		mg/L		66	37 - 120	6	44
Hexachloroethane	ND		0.0320	0.0200		mg/L		63	16 - 130	3	46
Nitrobenzene	ND		0.0320	0.0246		mg/L		77	45 - 123	5	24
Hexachlorobenzene	ND		0.0320	0.0260		mg/L		81	57 - 121	3	15
Pyridine	0.0027	J F1 B	0.0640	0.0125	J F1	mg/L		15	79 - 120	8	49
3-Methylphenol	ND		0.0320	0.0212	J	mg/L		66	32 - 120	2	30
2-Methylphenol	ND		0.0320	0.0236		mg/L		74	46 - 120	5	27
4-Methylphenol	ND		0.0320	0.0212	J	mg/L		66	36 - 120	2	24
Pentachlorophenol	ND		0.0640	0.0588		mg/L		92	10 - 149	0	37

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*25 - 144*
2-Fluorobiphenyl (Surr)	*79*		*53 - 126*
2-Fluorophenol (Surr)	*55*		*24 - 120*
Nitrobenzene-d5 (Surr)	*75*		*29 - 129*
Phenol-d5 (Surr)	*41*		*10 - 120*
p-Terphenyl-d14 (Surr)	*71*		*33 - 132*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-742685/1-A
Matrix: Solid
Analysis Batch: 742928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.90	mg/Kg		04/04/25 14:42	04/07/25 15:02	1
Barium	ND		0.51	0.14	mg/Kg		04/04/25 14:42	04/07/25 15:02	1
Beryllium	ND		0.20	0.041	mg/Kg		04/04/25 14:42	04/07/25 15:02	1
Cadmium	ND		0.20	0.072	mg/Kg		04/04/25 14:42	04/07/25 15:02	1
Chromium	ND		0.51	0.37	mg/Kg		04/04/25 14:42	04/07/25 15:02	1
Copper	ND		1.0	0.58	mg/Kg		04/04/25 14:42	04/07/25 15:02	1
Silver	ND		0.61	0.20	mg/Kg		04/04/25 14:42	04/07/25 15:02	1
Manganese	ND		1.0	0.29	mg/Kg		04/04/25 14:42	04/07/25 15:02	1
Nickel	ND		5.1	0.26	mg/Kg		04/04/25 14:42	04/07/25 15:02	1
Lead	ND		1.0	0.47	mg/Kg		04/04/25 14:42	04/07/25 15:02	1
Selenium	ND		4.1	0.82	mg/Kg		04/04/25 14:42	04/07/25 15:02	1
Zinc	ND		2.0	1.0	mg/Kg		04/04/25 14:42	04/07/25 15:02	1

Lab Sample ID: LCSSRM 480-742685/2-A
Matrix: Solid
Analysis Batch: 742928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742685

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			181	143.1		mg/Kg		79.1	66.3 - 97.8		

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-742685/2-A
Matrix: Solid
Analysis Batch: 742928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742685

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Barium	211	189.4		mg/Kg		89.7	73.9 - 107.1
Beryllium	270	237.5		mg/Kg		87.9	73.0 - 104.4
Cadmium	221	177.6		mg/Kg		80.3	70.6 - 101.8
Chromium	149	132.5		mg/Kg		88.9	71.8 - 105.4
Copper	264	229.4		mg/Kg		86.9	73.5 - 104.2
Silver	59.9	53.07		mg/Kg		88.6	72.8 - 110.7
Manganese	270	257.2		mg/Kg		95.3	73.0 - 107.8
Nickel	177	163.3		mg/Kg		92.3	71.8 - 103.4
Lead	106	103.7		mg/Kg		97.8	76.1 - 109.4
Selenium	139	116.3		mg/Kg		83.7	70.0 - 107.9
Zinc	398	344.3		mg/Kg		86.5	68.8 - 104.5

Lab Sample ID: 480-228418-13 MS
Matrix: Solid
Analysis Batch: 742928

Client Sample ID: Drain 1
Prep Type: Total/NA
Prep Batch: 742685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	13.6		221	225.3		mg/Kg	☼	96	75 - 125
Barium	227	F1	221	252.8	F1	mg/Kg	☼	12	75 - 125
Beryllium	1.0	J	110	103.6		mg/Kg	☼	94	75 - 125
Cadmium	4.7		111	113.2		mg/Kg	☼	98	75 - 125
Chromium	46.9	F1	111	113.4	F1	mg/Kg	☼	60	75 - 125
Copper	54.9	F1	111	125.2	F1	mg/Kg	☼	64	75 - 125
Silver	ND		11.1	12.06		mg/Kg	☼	109	75 - 125
Manganese	3180		111	571.1	4	mg/Kg	☼	-2358	75 - 125
Nickel	31.8	F1	111	113.0	F1	mg/Kg	☼	73	75 - 125
Lead	552	F2	111	199.6	4	mg/Kg	☼	-319	75 - 125
Selenium	ND		221	218.2		mg/Kg	☼	99	75 - 125
Zinc	1260		111	345.9	4	mg/Kg	☼	-828	75 - 125

Lab Sample ID: 480-228418-13 MSD
Matrix: Solid
Analysis Batch: 742928

Client Sample ID: Drain 1
Prep Type: Total/NA
Prep Batch: 742685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	13.6		210	217.4		mg/Kg	☼	97	75 - 125	4	20
Barium	227	F1	210	253.1	F1	mg/Kg	☼	13	75 - 125	0	20
Beryllium	1.0	J	104	99.83		mg/Kg	☼	95	75 - 125	4	20
Cadmium	4.7		105	108.5		mg/Kg	☼	99	75 - 125	4	20
Chromium	46.9	F1	105	108.6	F1	mg/Kg	☼	59	75 - 125	4	20
Copper	54.9	F1	105	120.3	F1	mg/Kg	☼	62	75 - 125	4	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-228418-13 MSD
Matrix: Solid
Analysis Batch: 742928

Client Sample ID: Drain 1
Prep Type: Total/NA
Prep Batch: 742685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		10.5	11.41		mg/Kg	☼	109	75 - 125	6	20
Manganese	3180		105	612.5	4	mg/Kg	☼	-2439	75 - 125	7	20
Nickel	31.8	F1	105	109.2	F1	mg/Kg	☼	74	75 - 125	3	20
Lead	552	F2	105	249.4	4 F2	mg/Kg	☼	-288	75 - 125	22	20
Selenium	ND		210	209.1		mg/Kg	☼	99	75 - 125	4	20
Zinc	1260		105	405.0	4	mg/Kg	☼	-814	75 - 125	16	20

Lab Sample ID: MB 480-742845/2-A
Matrix: Solid
Analysis Batch: 742961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 18:30	1
Barium	ND		1.0	0.10	mg/L		04/07/25 09:15	04/07/25 18:30	1
Cadmium	ND		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 18:30	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 18:30	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 18:30	1
Lead	ND		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 18:30	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 18:30	1

Lab Sample ID: LCS 480-742845/3-A
Matrix: Solid
Analysis Batch: 742961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.01		mg/L		101	80 - 120
Barium	1.00	0.984	J	mg/L		98	80 - 120
Cadmium	0.500	0.495		mg/L		99	80 - 120
Chromium	0.500	0.499		mg/L		100	80 - 120
Silver	0.0500	0.0519		mg/L		104	80 - 120
Lead	0.500	0.499		mg/L		100	80 - 120
Selenium	1.00	0.995		mg/L		100	80 - 120

Lab Sample ID: LB 480-742807/1-B
Matrix: Solid
Analysis Batch: 742961

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 742845

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00742	J	0.015	0.0056	mg/L		04/07/25 09:15	04/07/25 18:28	1
Barium	ND		1.0	0.10	mg/L		04/07/25 09:15	04/07/25 18:28	1
Cadmium	ND		0.0020	0.00050	mg/L		04/07/25 09:15	04/07/25 18:28	1
Chromium	ND		0.020	0.010	mg/L		04/07/25 09:15	04/07/25 18:28	1
Silver	ND		0.0060	0.0017	mg/L		04/07/25 09:15	04/07/25 18:28	1
Lead	ND		0.020	0.0030	mg/L		04/07/25 09:15	04/07/25 18:28	1
Selenium	ND		0.025	0.0087	mg/L		04/07/25 09:15	04/07/25 18:28	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-228418-1 MS — **Client Sample ID: D1**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 742961 — **Prep Batch: 742845**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		1.00	1.02		mg/L		102	75 - 125
Barium	0.29	J	1.00	1.33		mg/L		104	75 - 125
Cadmium	0.0074		0.500	0.517		mg/L		102	75 - 125
Chromium	ND		0.500	0.489		mg/L		98	75 - 125
Silver	ND		0.0500	0.0538		mg/L		108	75 - 125
Lead	0.030		0.500	0.525		mg/L		99	75 - 125
Selenium	ND		1.00	1.01		mg/L		101	75 - 125

Lab Sample ID: 480-228418-1 MSD — **Client Sample ID: D1**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 742961 — **Prep Batch: 742845**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		1.00	1.03		mg/L		103	75 - 125	1	20
Barium	0.29	J	1.00	1.28		mg/L		99	75 - 125	4	20
Cadmium	0.0074		0.500	0.521		mg/L		103	75 - 125	1	20
Chromium	ND		0.500	0.489		mg/L		98	75 - 125	0	20
Silver	ND		0.0500	0.0537		mg/L		107	75 - 125	0	20
Lead	0.030		0.500	0.529		mg/L		100	75 - 125	1	20
Selenium	ND		1.00	1.02		mg/L		102	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-742854/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 742918 — **Prep Batch: 742854**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:19	1

Lab Sample ID: LCS 480-742854/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 742918 — **Prep Batch: 742854**

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 480-742807/1-D — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 742918 — **Prep Batch: 742854**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/07/25 11:36	04/07/25 14:18	1

Lab Sample ID: 480-228418-1 MS — **Client Sample ID: D1**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 742918 — **Prep Batch: 742854**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00670	0.00542		mg/L		81	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 480-228418-1 MSD
Matrix: Solid
Analysis Batch: 742918

Client Sample ID: D1
Prep Type: TCLP
Prep Batch: 742854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00670	0.00547		mg/L		82	80 - 120	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-742827/1-A
Matrix: Solid
Analysis Batch: 742867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0046	mg/Kg		04/07/25 08:39	04/07/25 10:04	1

Lab Sample ID: LCSSRM 480-742827/2-A ^10
Matrix: Solid
Analysis Batch: 742867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742827

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	18.30		mg/Kg		76.2	55.8 - 109.6

GC/MS VOA

Prep Batch: 742665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-13	Drain 1	Total/NA	Solid	5035A_L	
480-228418-14	Drain 2	Total/NA	Solid	5035A_L	
480-228418-15	Drain 3	Total/NA	Solid	5035A_L	
480-228418-16	Drain 4	Total/NA	Solid	5035A_L	
MB 480-742665/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-742665/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 742666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-13	Drain 1	Total/NA	Solid	8260C	742665
480-228418-14	Drain 2	Total/NA	Solid	8260C	742665
480-228418-15	Drain 3	Total/NA	Solid	8260C	742665
480-228418-16	Drain 4	Total/NA	Solid	8260C	742665
MB 480-742665/2-A	Method Blank	Total/NA	Solid	8260C	742665
LCS 480-742665/1-A	Lab Control Sample	Total/NA	Solid	8260C	742665

Leach Batch: 742808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-1	D1	TCLP	Solid	1311	
480-228418-2	D2	TCLP	Solid	1311	
480-228418-3	D3	TCLP	Solid	1311	
480-228418-4	D4	TCLP	Solid	1311	
480-228418-5	D5	TCLP	Solid	1311	
480-228418-6	D6	TCLP	Solid	1311	
480-228418-7	D7	TCLP	Solid	1311	
480-228418-8	D8	TCLP	Solid	1311	
480-228418-9	D9	TCLP	Solid	1311	
480-228418-10	D10	TCLP	Solid	1311	
480-228418-11	D11	TCLP	Solid	1311	
480-228418-12	D12	TCLP	Solid	1311	
LB 480-742808/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 742831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-1	D1	TCLP	Solid	8260C	742808
480-228418-2	D2	TCLP	Solid	8260C	742808
480-228418-3	D3	TCLP	Solid	8260C	742808
480-228418-4	D4	TCLP	Solid	8260C	742808
480-228418-5	D5	TCLP	Solid	8260C	742808
480-228418-6	D6	TCLP	Solid	8260C	742808
480-228418-7	D7	TCLP	Solid	8260C	742808
480-228418-8	D8	TCLP	Solid	8260C	742808
480-228418-9	D9	TCLP	Solid	8260C	742808
480-228418-10	D10	TCLP	Solid	8260C	742808
480-228418-11	D11	TCLP	Solid	8260C	742808
480-228418-12	D12	TCLP	Solid	8260C	742808
LB 480-742808/1-A	Method Blank	TCLP	Solid	8260C	742808
MB 480-742831/9	Method Blank	Total/NA	Solid	8260C	
LCS 480-742831/6	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 480-742831/7	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 742676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-13	Drain 1	Total/NA	Solid	3550C	
480-228418-14	Drain 2	Total/NA	Solid	3550C	
480-228418-15	Drain 3	Total/NA	Solid	3550C	
480-228418-16	Drain 4	Total/NA	Solid	3550C	
MB 480-742676/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-742676/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 480-742676/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Leach Batch: 742807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-1	D1	TCLP	Solid	1311	
480-228418-2	D2	TCLP	Solid	1311	
480-228418-3	D3	TCLP	Solid	1311	
480-228418-4	D4	TCLP	Solid	1311	
480-228418-5	D5	TCLP	Solid	1311	
480-228418-6	D6	TCLP	Solid	1311	
480-228418-7	D7	TCLP	Solid	1311	
480-228418-8	D8	TCLP	Solid	1311	
480-228418-9	D9	TCLP	Solid	1311	
480-228418-10	D10	TCLP	Solid	1311	
480-228418-11	D11	TCLP	Solid	1311	
480-228418-12	D12	TCLP	Solid	1311	
LB 480-742807/1-C	Method Blank	TCLP	Solid	1311	
480-228418-1 MS	D1	TCLP	Solid	1311	
480-228418-1 MSD	D1	TCLP	Solid	1311	

Prep Batch: 742843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-1	D1	TCLP	Solid	3510C	742807
480-228418-2	D2	TCLP	Solid	3510C	742807
480-228418-3	D3	TCLP	Solid	3510C	742807
480-228418-4	D4	TCLP	Solid	3510C	742807
480-228418-5	D5	TCLP	Solid	3510C	742807
480-228418-6	D6	TCLP	Solid	3510C	742807
480-228418-7	D7	TCLP	Solid	3510C	742807
480-228418-8	D8	TCLP	Solid	3510C	742807
480-228418-9	D9	TCLP	Solid	3510C	742807
480-228418-10	D10	TCLP	Solid	3510C	742807
480-228418-11	D11	TCLP	Solid	3510C	742807
480-228418-12	D12	TCLP	Solid	3510C	742807
LB 480-742807/1-C	Method Blank	TCLP	Solid	3510C	742807
MB 480-742843/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-742843/2-A	Lab Control Sample	Total/NA	Solid	3510C	
480-228418-1 MS	D1	TCLP	Solid	3510C	742807
480-228418-1 MSD	D1	TCLP	Solid	3510C	742807

Analysis Batch: 742846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-13	Drain 1	Total/NA	Solid	8270D	742676
480-228418-14	Drain 2	Total/NA	Solid	8270D	742676
480-228418-15	Drain 3	Total/NA	Solid	8270D	742676

GC/MS Semi VOA (Continued)

Analysis Batch: 742846 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-16	Drain 4	Total/NA	Solid	8270D	742676
MB 480-742676/1-A	Method Blank	Total/NA	Solid	8270D	742676
LCS 480-742676/2-A	Lab Control Sample	Total/NA	Solid	8270D	742676
LCSD 480-742676/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	742676

Analysis Batch: 742916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-1	D1	TCLP	Solid	8270D	742843
LB 480-742807/1-C	Method Blank	TCLP	Solid	8270D	742843
MB 480-742843/1-A	Method Blank	Total/NA	Solid	8270D	742843
LCS 480-742843/2-A	Lab Control Sample	Total/NA	Solid	8270D	742843
480-228418-1 MS	D1	TCLP	Solid	8270D	742843
480-228418-1 MSD	D1	TCLP	Solid	8270D	742843

Analysis Batch: 742969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-2	D2	TCLP	Solid	8270D	742843
480-228418-3	D3	TCLP	Solid	8270D	742843
480-228418-4	D4	TCLP	Solid	8270D	742843
480-228418-5	D5	TCLP	Solid	8270D	742843
480-228418-6	D6	TCLP	Solid	8270D	742843
480-228418-7	D7	TCLP	Solid	8270D	742843
480-228418-8	D8	TCLP	Solid	8270D	742843
480-228418-9	D9	TCLP	Solid	8270D	742843
480-228418-10	D10	TCLP	Solid	8270D	742843
480-228418-11	D11	TCLP	Solid	8270D	742843
480-228418-12	D12	TCLP	Solid	8270D	742843

Metals

Prep Batch: 742685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-13	Drain 1	Total/NA	Solid	3050B	
480-228418-14	Drain 2	Total/NA	Solid	3050B	
480-228418-15	Drain 3	Total/NA	Solid	3050B	
480-228418-16	Drain 4	Total/NA	Solid	3050B	
MB 480-742685/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-742685/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-228418-13 MS	Drain 1	Total/NA	Solid	3050B	
480-228418-13 MSD	Drain 1	Total/NA	Solid	3050B	

Leach Batch: 742807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-1	D1	TCLP	Solid	1311	
480-228418-2	D2	TCLP	Solid	1311	
480-228418-3	D3	TCLP	Solid	1311	
480-228418-4	D4	TCLP	Solid	1311	
480-228418-5	D5	TCLP	Solid	1311	
480-228418-6	D6	TCLP	Solid	1311	
480-228418-7	D7	TCLP	Solid	1311	
480-228418-8	D8	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 742807 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-9	D9	TCLP	Solid	1311	
480-228418-10	D10	TCLP	Solid	1311	
480-228418-11	D11	TCLP	Solid	1311	
480-228418-12	D12	TCLP	Solid	1311	
LB 480-742807/1-B	Method Blank	TCLP	Solid	1311	
LB 480-742807/1-D	Method Blank	TCLP	Solid	1311	
480-228418-1 MS	D1	TCLP	Solid	1311	
480-228418-1 MSD	D1	TCLP	Solid	1311	

Prep Batch: 742827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-13	Drain 1	Total/NA	Solid	7471B	
480-228418-14	Drain 2	Total/NA	Solid	7471B	
480-228418-15	Drain 3	Total/NA	Solid	7471B	
480-228418-16	Drain 4	Total/NA	Solid	7471B	
MB 480-742827/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-742827/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 742845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-1	D1	TCLP	Solid	3010A	742807
480-228418-2	D2	TCLP	Solid	3010A	742807
480-228418-3	D3	TCLP	Solid	3010A	742807
480-228418-4	D4	TCLP	Solid	3010A	742807
480-228418-5	D5	TCLP	Solid	3010A	742807
480-228418-6	D6	TCLP	Solid	3010A	742807
480-228418-7	D7	TCLP	Solid	3010A	742807
480-228418-8	D8	TCLP	Solid	3010A	742807
480-228418-9	D9	TCLP	Solid	3010A	742807
480-228418-10	D10	TCLP	Solid	3010A	742807
480-228418-11	D11	TCLP	Solid	3010A	742807
480-228418-12	D12	TCLP	Solid	3010A	742807
LB 480-742807/1-B	Method Blank	TCLP	Solid	3010A	742807
MB 480-742845/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-742845/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-228418-1 MS	D1	TCLP	Solid	3010A	742807
480-228418-1 MSD	D1	TCLP	Solid	3010A	742807

Prep Batch: 742854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-1	D1	TCLP	Solid	7470A	742807
480-228418-2	D2	TCLP	Solid	7470A	742807
480-228418-3	D3	TCLP	Solid	7470A	742807
480-228418-4	D4	TCLP	Solid	7470A	742807
480-228418-5	D5	TCLP	Solid	7470A	742807
480-228418-6	D6	TCLP	Solid	7470A	742807
480-228418-7	D7	TCLP	Solid	7470A	742807
480-228418-8	D8	TCLP	Solid	7470A	742807
480-228418-9	D9	TCLP	Solid	7470A	742807
480-228418-10	D10	TCLP	Solid	7470A	742807
480-228418-11	D11	TCLP	Solid	7470A	742807

Metals (Continued)

Prep Batch: 742854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-12	D12	TCLP	Solid	7470A	742807
LB 480-742807/1-D	Method Blank	TCLP	Solid	7470A	742807
MB 480-742854/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-742854/3-A	Lab Control Sample	Total/NA	Solid	7470A	
480-228418-1 MS	D1	TCLP	Solid	7470A	742807
480-228418-1 MSD	D1	TCLP	Solid	7470A	742807

Analysis Batch: 742867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-13	Drain 1	Total/NA	Solid	7471B	742827
480-228418-14	Drain 2	Total/NA	Solid	7471B	742827
480-228418-15	Drain 3	Total/NA	Solid	7471B	742827
480-228418-16	Drain 4	Total/NA	Solid	7471B	742827
MB 480-742827/1-A	Method Blank	Total/NA	Solid	7471B	742827
LCSSRM 480-742827/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	742827

Analysis Batch: 742918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-1	D1	TCLP	Solid	7470A	742854
480-228418-2	D2	TCLP	Solid	7470A	742854
480-228418-3	D3	TCLP	Solid	7470A	742854
480-228418-4	D4	TCLP	Solid	7470A	742854
480-228418-5	D5	TCLP	Solid	7470A	742854
480-228418-6	D6	TCLP	Solid	7470A	742854
480-228418-7	D7	TCLP	Solid	7470A	742854
480-228418-8	D8	TCLP	Solid	7470A	742854
480-228418-9	D9	TCLP	Solid	7470A	742854
480-228418-10	D10	TCLP	Solid	7470A	742854
480-228418-11	D11	TCLP	Solid	7470A	742854
480-228418-12	D12	TCLP	Solid	7470A	742854
LB 480-742807/1-D	Method Blank	TCLP	Solid	7470A	742854
MB 480-742854/2-A	Method Blank	Total/NA	Solid	7470A	742854
LCS 480-742854/3-A	Lab Control Sample	Total/NA	Solid	7470A	742854
480-228418-1 MS	D1	TCLP	Solid	7470A	742854
480-228418-1 MSD	D1	TCLP	Solid	7470A	742854

Analysis Batch: 742928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-13	Drain 1	Total/NA	Solid	6010D	742685
480-228418-14	Drain 2	Total/NA	Solid	6010D	742685
480-228418-15	Drain 3	Total/NA	Solid	6010D	742685
480-228418-16	Drain 4	Total/NA	Solid	6010D	742685
MB 480-742685/1-A	Method Blank	Total/NA	Solid	6010D	742685
LCSSRM 480-742685/2-A	Lab Control Sample	Total/NA	Solid	6010D	742685
480-228418-13 MS	Drain 1	Total/NA	Solid	6010D	742685
480-228418-13 MSD	Drain 1	Total/NA	Solid	6010D	742685

Analysis Batch: 742961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-1	D1	TCLP	Solid	6010D	742845
480-228418-2	D2	TCLP	Solid	6010D	742845

Metals (Continued)

Analysis Batch: 742961 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-3	D3	TCLP	Solid	6010D	742845
480-228418-4	D4	TCLP	Solid	6010D	742845
480-228418-5	D5	TCLP	Solid	6010D	742845
480-228418-6	D6	TCLP	Solid	6010D	742845
480-228418-7	D7	TCLP	Solid	6010D	742845
480-228418-8	D8	TCLP	Solid	6010D	742845
480-228418-9	D9	TCLP	Solid	6010D	742845
480-228418-10	D10	TCLP	Solid	6010D	742845
480-228418-11	D11	TCLP	Solid	6010D	742845
480-228418-12	D12	TCLP	Solid	6010D	742845
LB 480-742807/1-B	Method Blank	TCLP	Solid	6010D	742845
MB 480-742845/2-A	Method Blank	Total/NA	Solid	6010D	742845
LCS 480-742845/3-A	Lab Control Sample	Total/NA	Solid	6010D	742845
480-228418-1 MS	D1	TCLP	Solid	6010D	742845
480-228418-1 MSD	D1	TCLP	Solid	6010D	742845

General Chemistry

Analysis Batch: 742658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-228418-13	Drain 1	Total/NA	Solid	Moisture	
480-228418-14	Drain 2	Total/NA	Solid	Moisture	
480-228418-15	Drain 3	Total/NA	Solid	Moisture	
480-228418-16	Drain 4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Client Sample ID: D1
Lab Sample ID: 480-228418-1
Date Collected: 04/03/25 08:00
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 12:54
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742916	JMM	EET BUF	04/07/25 18:40
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 18:33
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:22

Client Sample ID: D2
Lab Sample ID: 480-228418-2
Date Collected: 04/03/25 09:30
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 13:17
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742969	JMM	EET BUF	04/08/25 11:10
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 18:43
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:27

Client Sample ID: D3
Lab Sample ID: 480-228418-3
Date Collected: 04/03/25 10:00
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 13:39
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742969	JMM	EET BUF	04/08/25 11:38
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 18:51
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:28

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Client Sample ID: D4
Lab Sample ID: 480-228418-4
Date Collected: 04/03/25 10:10
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 14:01
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742969	JMM	EET BUF	04/08/25 12:05
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 18:53
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:30

Client Sample ID: D5
Lab Sample ID: 480-228418-5
Date Collected: 04/03/25 10:20
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 14:23
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742969	JMM	EET BUF	04/08/25 12:32
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 18:55
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:34

Client Sample ID: D6
Lab Sample ID: 480-228418-6
Date Collected: 04/03/25 10:30
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 14:46
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742969	JMM	EET BUF	04/08/25 13:00
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 18:56
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:35

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Client Sample ID: D7
Lab Sample ID: 480-228418-7
Date Collected: 04/03/25 10:40
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 15:17
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742969	JMM	EET BUF	04/08/25 13:28
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 18:58
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:36

Client Sample ID: D8
Lab Sample ID: 480-228418-8
Date Collected: 04/03/25 10:50
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 15:40
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742969	JMM	EET BUF	04/08/25 13:55
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 19:00
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:37

Client Sample ID: D9
Lab Sample ID: 480-228418-9
Date Collected: 04/03/25 11:00
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 16:02
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742969	JMM	EET BUF	04/08/25 14:23
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 19:02
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:39

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Client Sample ID: D10
Lab Sample ID: 480-228418-10
Date Collected: 04/03/25 11:10
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 16:25
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742969	JMM	EET BUF	04/08/25 14:51
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 19:04
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:40

Client Sample ID: D11
Lab Sample ID: 480-228418-11
Date Collected: 04/03/25 11:20
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 16:47
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742969	JMM	EET BUF	04/08/25 15:18
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 19:06
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:41

Client Sample ID: D12
Lab Sample ID: 480-228418-12
Date Collected: 04/03/25 11:30
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			742808	DP	EET BUF	04/06/25 06:56 - 04/07/25 09:39 [1]
TCLP	Analysis	8260C		10	742831	AXK	EET BUF	04/07/25 17:09
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3510C			742843	JMP	EET BUF	04/07/25 08:49
TCLP	Analysis	8270D		1	742969	JMM	EET BUF	04/08/25 15:46
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	3010A			742845	EMO	EET BUF	04/07/25 09:15
TCLP	Analysis	6010D		1	742961	BMB	EET BUF	04/07/25 19:14
TCLP	Leach	1311			742807	DP	EET BUF	04/06/25 06:49 - 04/07/25 08:39 [1]
TCLP	Prep	7470A			742854	ESB	EET BUF	04/07/25 11:36
TCLP	Analysis	7470A		1	742918	ESB	EET BUF	04/07/25 14:43

Client Sample ID: Drain 1
Lab Sample ID: 480-228418-13
Date Collected: 04/03/25 11:40
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	742658	JMM	EET BUF	04/03/25 15:09

Client Sample ID: Drain 1
Lab Sample ID: 480-228418-13
Date Collected: 04/03/25 11:40
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			742665	CDC	EET BUF	04/03/25 18:03
Total/NA	Analysis	8260C		1	742666	LCH	EET BUF	04/03/25 23:00
Total/NA	Prep	3550C			742676	SMP	EET BUF	04/04/25 06:55
Total/NA	Analysis	8270D		20	742846	JMM	EET BUF	04/07/25 16:59
Total/NA	Prep	3050B			742685	ET	EET BUF	04/04/25 14:42
Total/NA	Analysis	6010D		5	742928	BMB	EET BUF	04/07/25 15:06
Total/NA	Prep	7471B			742827	ESB	EET BUF	04/07/25 08:39
Total/NA	Analysis	7471B		1	742867	ESB	EET BUF	04/07/25 10:07

Client Sample ID: Drain 2
Lab Sample ID: 480-228418-14
Date Collected: 04/03/25 11:50
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	742658	JMM	EET BUF	04/03/25 15:09

Client Sample ID: Drain 2
Lab Sample ID: 480-228418-14
Date Collected: 04/03/25 11:50
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			742665	CDC	EET BUF	04/03/25 18:03
Total/NA	Analysis	8260C		1	742666	LCH	EET BUF	04/03/25 23:23
Total/NA	Prep	3550C			742676	SMP	EET BUF	04/04/25 06:55
Total/NA	Analysis	8270D		10	742846	JMM	EET BUF	04/07/25 17:23
Total/NA	Prep	3050B			742685	ET	EET BUF	04/04/25 14:42
Total/NA	Analysis	6010D		1	742928	BMB	EET BUF	04/07/25 15:24
Total/NA	Prep	7471B			742827	ESB	EET BUF	04/07/25 08:39
Total/NA	Analysis	7471B		1	742867	ESB	EET BUF	04/07/25 10:08

Client Sample ID: Drain 3
Lab Sample ID: 480-228418-15
Date Collected: 04/03/25 12:00
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	742658	JMM	EET BUF	04/03/25 15:09

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Client Sample ID: Drain 3
Lab Sample ID: 480-228418-15
Date Collected: 04/03/25 12:00
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			742665	CDC	EET BUF	04/03/25 18:03
Total/NA	Analysis	8260C		1	742666	LCH	EET BUF	04/03/25 23:46
Total/NA	Prep	3550C			742676	SMP	EET BUF	04/04/25 06:55
Total/NA	Analysis	8270D		5	742846	JMM	EET BUF	04/07/25 17:48
Total/NA	Prep	3050B			742685	ET	EET BUF	04/04/25 14:42
Total/NA	Analysis	6010D		1	742928	BMB	EET BUF	04/07/25 15:26
Total/NA	Prep	7471B			742827	ESB	EET BUF	04/07/25 08:39
Total/NA	Analysis	7471B		1	742867	ESB	EET BUF	04/07/25 10:09

Client Sample ID: Drain 4
Lab Sample ID: 480-228418-16
Date Collected: 04/03/25 12:10
Matrix: Solid
Date Received: 04/03/25 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	742658	JMM	EET BUF	04/03/25 15:09

Client Sample ID: Drain 4
Lab Sample ID: 480-228418-16
Date Collected: 04/03/25 12:10
Matrix: Solid
Date Received: 04/03/25 13:45
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			742665	CDC	EET BUF	04/03/25 18:03
Total/NA	Analysis	8260C		1	742666	LCH	EET BUF	04/04/25 00:10
Total/NA	Prep	3550C			742676	SMP	EET BUF	04/04/25 06:55
Total/NA	Analysis	8270D		50	742846	JMM	EET BUF	04/07/25 18:12
Total/NA	Prep	3050B			742685	ET	EET BUF	04/04/25 14:42
Total/NA	Analysis	6010D		1	742928	BMB	EET BUF	04/07/25 15:28
Total/NA	Prep	7471B			742827	ESB	EET BUF	04/07/25 08:39
Total/NA	Analysis	7471B		1	742867	ESB	EET BUF	04/07/25 10:11

[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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

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	03-31-26

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
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
6010D	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1311	TCLP Extraction	SW846	EET BUF
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
7470A	Preparation, Mercury	SW846	EET BUF
7471B	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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-228418-1	D1	Solid	04/03/25 08:00	04/03/25 13:45
480-228418-2	D2	Solid	04/03/25 09:30	04/03/25 13:45
480-228418-3	D3	Solid	04/03/25 10:00	04/03/25 13:45
480-228418-4	D4	Solid	04/03/25 10:10	04/03/25 13:45
480-228418-5	D5	Solid	04/03/25 10:20	04/03/25 13:45
480-228418-6	D6	Solid	04/03/25 10:30	04/03/25 13:45
480-228418-7	D7	Solid	04/03/25 10:40	04/03/25 13:45
480-228418-8	D8	Solid	04/03/25 10:50	04/03/25 13:45
480-228418-9	D9	Solid	04/03/25 11:00	04/03/25 13:45
480-228418-10	D10	Solid	04/03/25 11:10	04/03/25 13:45
480-228418-11	D11	Solid	04/03/25 11:20	04/03/25 13:45
480-228418-12	D12	Solid	04/03/25 11:30	04/03/25 13:45
480-228418-13	Drain 1	Solid	04/03/25 11:40	04/03/25 13:45
480-228418-14	Drain 2	Solid	04/03/25 11:50	04/03/25 13:45
480-228418-15	Drain 3	Solid	04/03/25 12:00	04/03/25 13:45
480-228418-16	Drain 4	Solid	04/03/25 12:10	04/03/25 13:45

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

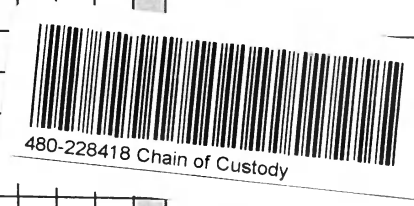
Client Information	Sampler: Paul Staub	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-204074-41661.1
Client Contact: Mr. Paul Staub	Phone: 716-249-6880	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Brydges Engineering in Environment & Energy DPC	PWSID:			Job #:
Address: 960 Busti Ave Suite B-150	Due Date Requested:			
City: Buffalo	TAT Requested (days): RUSH. Fastest Available.			
State, Zip: NY, 14213	Compliance Project: Δ Yes Δ No			
Phone: 716-869-1564(Tel)	PO #: Purchase Order not required			
Email: pstaub@be3corp.com	WO #:			
Project Name: 333 1st St. Niagara Falls, NY	Project #: 48028637			
Site: The NEST	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)	6010D, 7470A, 8270D TCLP	8260C - TCLP Volatiles	6010D, 7471B, 8270D Part 375	8260C - Part 375 VOCs (LL)	8260C - TCL VOCs + CP-51 List	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N	A		
D1	4/3/25	8:00 Am	C	Solid			X	X					
D2		9:30 Am		Solid			X	X					
D3		10:00 Am		Solid			X	X					
D4		10:10		Solid			X	X					
D5		10:20		Solid			X	X					
D6		10:30		Solid			X	X					
D7		10:46		Solid			X	X					
D8		10:50		Solid			X	X					
D9		11:00		Solid			X	X					
D10		11:10		Solid			X	X					
D11		11:20		Solid			X	X					

Preservation Codes:
N - None
A - HCL

Other:



Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Paul Staub Paul Staub	4/3/25 1:45PM	BE3	Centaltale	4/3/25 1345	TAB
2						
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5 TCEJR #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:	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-204074-41661.2
Client Contact: Mr. Paul Staub	Phone:	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Brydges Engineering in Environment & Energy DPC	PWSID:			Job #:

Address: 960 Busti Ave Suite B-150	Due Date Requested:
City: Buffalo	TAT Requested (days): ASAP, RUSH
State, Zip: NY, 14213	Compliance Project: Δ Yes Δ No
Phone: 716-869-1564(Tel)	PO #: Purchase Order not required
Email: pstaub@be3corp.com	WO #:
Project Name: 333 1st St. Niagara Falls, NY	Project #: 48028637
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)	6010D, 7470A, 8270D	8260C - TCLP Volatiles	6010D, 7471B, 8270D	8260C - Part 375 VOCs (LL)	8260C - TCL VOCs + CP-51 List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	A		
D 12	4/3	11:30	C	Solid			X	X					Drain 3, 4 had wrong Analyses on Label. Should be Part 375 metals, SVOCs, mercury. Right on COC
Drain 1		11:40		Solid					X	X			
Drain 2		11:50		Solid					X	X			
Drain 3		12:00		Solid					X	X			
Drain 4		12:10		Solid					X	X			
				Water									

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Paul Staub	Date/Time: 4/3	Company BE3	Received by: Cwallace	Date/Time: 4/3/25 1345	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

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-228418-1

Login Number: 228418
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	4.5 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	BE3
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Lab Number:	L2464510
Client:	BE3 960 Busti Avenue Suite B-150 Buffalo, NY 14213
ATTN:	Jacob Cox
Phone:	(716) 362-6532
Project Name:	NEST
Project Number:	Not Specified
Report Date:	11/11/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2464510-01	VP-1	SOIL_VAPOR	333 1ST STREET	11/05/24 12:30	11/05/24
L2464510-02	VP-3	SOIL_VAPOR	333 1ST STREET	11/05/24 12:30	11/05/24
L2464510-03	VP-2	SOIL_VAPOR	333 1ST STREET	11/05/24 12:45	11/05/24
L2464510-04	VP-4	SOIL_VAPOR	333 1ST STREET	11/05/24 12:45	11/05/24

Project Name:	NEST	**Lab Number:**	L2464510
Project Number:	Not Specified	**Report Date:**	11/11/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on October 30, 2024. The canister certification data is provided as an addendum.

L2464510-03D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2464510-03D: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen. The pressurization resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

L2464510-04: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2464510-04D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 11/11/24

AIR

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-01
Client ID: VP-1
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:30
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/09/24 22:01
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.520	0.200	0.076	2.57	0.989	0.374		1
Chloromethane	0.088	0.200	0.058	0.182	0.413	0.119	J	1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	0.074	0.200	0.062	0.164	0.442	0.137	J	1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	1.74	1.00	0.515	4.13	2.38	1.22		1
Trichlorofluoromethane	14.6	0.200	0.079	82.0	1.12	0.442		1
Isopropanol	1.28	0.500	0.272	3.15	1.23	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	0.246	0.500	0.125	0.855	1.74	0.434	J	1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	0.291	0.200	0.047	0.906	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	0.130	0.200	0.076	0.515	0.793	0.299	J	1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	0.228	0.500	0.099	0.672	1.47	0.292	J	1
cis-1,2-Dichloroethene	0.162	0.200	0.060	0.642	0.793	0.236	J	1

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-01
Client ID: VP-1
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:30
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	1.64	0.200	0.055	8.01	0.977	0.270		1
Tetrahydrofuran	0.166	0.500	0.117	0.490	1.47	0.345	J	1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.293	0.200	0.074	1.03	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
Benzene	0.209	0.200	0.064	0.668	0.639	0.205		1
Carbon tetrachloride	0.107	0.200	0.069	0.673	1.26	0.432	J	1
Cyclohexane	0.248	0.200	0.073	0.854	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	28.9	0.200	0.055	155	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	27.2	0.200	0.063	184	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-01
Client ID: VP-1
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:30
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
Hexachlorobutadiene	0.217	0.200	0.061	2.31	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	105		60-140
Bromochloromethane	111		60-140
chlorobenzene-d5	113		60-140

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-02
Client ID: VP-3
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:30
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/09/24 22:41
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.00	0.200	0.076	4.94	0.989	0.374		1
Chloromethane	0.151	0.200	0.058	0.312	0.413	0.119	J	1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	1.58	1.00	0.515	3.75	2.38	1.22		1
Trichlorofluoromethane	69.3	0.200	0.079	389	1.12	0.442		1
Isopropanol	2.57	0.500	0.272	6.32	1.23	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	0.132	0.500	0.125	0.459	1.74	0.434	J	1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	0.052	0.200	0.051	0.399	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	0.152	0.500	0.099	0.448	1.47	0.292	J	1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-02
Client ID: VP-3
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:30
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	0.755	0.200	0.055	3.69	0.977	0.270		1
Tetrahydrofuran	0.329	0.500	0.117	0.970	1.47	0.345	J	1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	0.234	0.200	0.069	1.47	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	4.28	0.200	0.055	23.0	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	6.85	0.200	0.063	46.5	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-02
Client ID: VP-3
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:30
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	105		60-140
Bromochloromethane	111		60-140
chlorobenzene-d5	111		60-140

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-03 D
Client ID: VP-2
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:45
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/09/24 23:21
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.77	0.294	0.111	8.75	1.45	0.549		1.471
Chloromethane	0.120	0.294	0.085	0.248	0.607	0.175	J	1.471
Freon-114	ND	0.294	0.074	ND	2.05	0.518		1.471
Vinyl chloride	ND	0.294	0.086	ND	0.752	0.219		1.471
1,3-Butadiene	ND	0.294	0.091	ND	0.650	0.201		1.471
Bromomethane	ND	0.294	0.080	ND	1.14	0.312		1.471
Chloroethane	ND	0.294	0.095	ND	0.776	0.252		1.471
Ethanol	ND	7.35	2.56	ND	13.8	4.82		1.471
Vinyl bromide	ND	0.294	0.106	ND	1.29	0.463		1.471
Acetone	1.83	1.47	0.757	4.35	3.49	1.80		1.471
Trichlorofluoromethane	4.00	0.294	0.116	22.5	1.65	0.652		1.471
Isopropanol	ND	0.735	0.400	ND	1.81	0.983		1.471
1,1-Dichloroethene	ND	0.294	0.084	ND	1.17	0.331		1.471
Tertiary butyl Alcohol	ND	0.735	0.194	ND	2.23	0.588		1.471
Methylene chloride	ND	0.735	0.184	ND	2.55	0.639		1.471
3-Chloropropene	ND	0.294	0.126	ND	0.920	0.394		1.471
Carbon disulfide	0.409	0.294	0.068	1.27	0.916	0.213		1.471
Freon-113	ND	0.294	0.074	ND	2.25	0.570		1.471
trans-1,2-Dichloroethene	ND	0.294	0.111	ND	1.17	0.440		1.471
1,1-Dichloroethane	ND	0.294	0.084	ND	1.19	0.338		1.471
Methyl tert butyl ether	ND	0.294	0.066	ND	1.06	0.239		1.471
2-Butanone	0.259	0.735	0.146	0.764	2.17	0.431	J	1.471
cis-1,2-Dichloroethene	ND	0.294	0.088	ND	1.17	0.347		1.471

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-03 D
Client ID: VP-2
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:45
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.735	0.436	ND	2.65	1.57		1.471
Chloroform	0.100	0.294	0.081	0.488	1.44	0.396	J	1.471
Tetrahydrofuran	ND	0.735	0.172	ND	2.17	0.507		1.471
1,2-Dichloroethane	ND	0.294	0.116	ND	1.19	0.470		1.471
n-Hexane	0.207	0.294	0.109	0.730	1.04	0.384	J	1.471
1,1,1-Trichloroethane	ND	0.294	0.090	ND	1.60	0.492		1.471
Benzene	ND	0.294	0.095	ND	0.939	0.302		1.471
Carbon tetrachloride	ND	0.294	0.101	ND	1.85	0.635		1.471
Cyclohexane	ND	0.294	0.107	ND	1.01	0.368		1.471
1,2-Dichloropropane	ND	0.294	0.093	ND	1.36	0.429		1.471
Bromodichloromethane	ND	0.294	0.101	ND	1.97	0.677		1.471
1,4-Dioxane	ND	0.294	0.079	ND	1.06	0.285		1.471
Trichloroethene	ND	0.294	0.081	ND	1.58	0.433		1.471
2,2,4-Trimethylpentane	ND	0.294	0.102	ND	1.37	0.476		1.471
Heptane	0.170	0.294	0.122	0.697	1.20	0.500	J	1.471
cis-1,3-Dichloropropene	ND	0.294	0.099	ND	1.33	0.450		1.471
4-Methyl-2-pentanone	ND	0.735	0.279	ND	3.01	1.14		1.471
trans-1,3-Dichloropropene	ND	0.294	0.115	ND	1.33	0.522		1.471
1,1,2-Trichloroethane	ND	0.294	0.086	ND	1.60	0.467		1.471
Toluene	ND	0.294	0.127	ND	1.11	0.479		1.471
2-Hexanone	ND	0.294	0.134	ND	1.20	0.549		1.471
Dibromochloromethane	ND	0.294	0.083	ND	2.50	0.709		1.471
1,2-Dibromoethane	ND	0.294	0.080	ND	2.26	0.615		1.471
Tetrachloroethene	0.842	0.294	0.092	5.71	1.99	0.625		1.471
Chlorobenzene	ND	0.294	0.076	ND	1.35	0.349		1.471
Ethylbenzene	ND	0.294	0.085	ND	1.28	0.367		1.471

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-03 D
Client ID: VP-2
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:45
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.588	0.184	ND	2.55	0.799		1.471
Bromoform	ND	0.294	0.088	ND	3.04	0.906		1.471
Styrene	ND	0.294	0.088	ND	1.25	0.373		1.471
1,1,2,2-Tetrachloroethane	ND	0.294	0.076	ND	2.02	0.525		1.471
o-Xylene	ND	0.294	0.091	ND	1.28	0.397		1.471
4-Ethyltoluene	ND	0.294	0.081	ND	1.45	0.400		1.471
1,3,5-Trimethylbenzene	ND	0.294	0.088	ND	1.45	0.434		1.471
1,2,4-Trimethylbenzene	ND	0.294	0.085	ND	1.45	0.417		1.471
Benzyl chloride	ND	0.294	0.138	ND	1.52	0.715		1.471
1,3-Dichlorobenzene	ND	0.294	0.114	ND	1.77	0.685		1.471
1,4-Dichlorobenzene	ND	0.294	0.121	ND	1.77	0.727		1.471
1,2-Dichlorobenzene	ND	0.294	0.091	ND	1.77	0.547		1.471
1,2,4-Trichlorobenzene	ND	0.294	0.147	ND	2.18	1.09		1.471
Naphthalene	ND	0.294	0.115	ND	1.54	0.603		1.471
Hexachlorobutadiene	ND	0.294	0.089	ND	3.14	0.951		1.471

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	104		60-140
Bromochloromethane	109		60-140
chlorobenzene-d5	112		60-140

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-04
Client ID: VP-4
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:45
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/10/24 00:01
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	3.05	0.200	0.076	15.1	0.989	0.374		1
Chloromethane	0.157	0.200	0.058	0.324	0.413	0.119	J	1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	1.92	0.200	0.062	4.25	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	1.24	1.00	0.515	2.95	2.38	1.22		1
Trichlorofluoromethane	172	0.200	0.079	967	1.12	0.442	E	1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	1.42	0.500	0.125	4.93	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	4.63	0.200	0.047	14.4	0.623	0.145		1
Freon-113	0.056	0.200	0.051	0.429	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-04
Client ID: VP-4
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:45
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	0.444	0.200	0.055	2.17	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	0.143	0.200	0.079	0.579	0.809	0.319	J	1
n-Hexane	73.2	0.200	0.074	258	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
Benzene	11.6	0.200	0.064	37.1	0.639	0.205		1
Carbon tetrachloride	0.403	0.200	0.069	2.54	1.26	0.432		1
Cyclohexane	57.6	0.200	0.073	198	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	1.22	0.200	0.055	6.56	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	9.56	0.200	0.083	39.2	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	3.72	0.200	0.087	14.0	0.754	0.327		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	19.5	0.200	0.063	132	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	0.329	0.200	0.058	1.43	0.869	0.250		1

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-04
Client ID: VP-4
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:45
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.06	0.400	0.125	4.60	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	0.446	0.200	0.062	1.94	0.869	0.270		1
4-Ethyltoluene	0.340	0.200	0.055	1.67	0.983	0.272		1
1,3,5-Trimethylbenzene	0.495	0.200	0.060	2.43	0.983	0.295		1
1,2,4-Trimethylbenzene	0.480	0.200	0.058	2.36	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
Hexachlorobutadiene	1.53	0.200	0.061	16.3	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	104		60-140
Bromochloromethane	111		60-140
chlorobenzene-d5	110		60-140

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

SAMPLE RESULTS

Lab ID: L2464510-04 D
Client ID: VP-4
Sample Location: 333 1ST STREET

Date Collected: 11/05/24 12:45
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/10/24 08:10
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichlorofluoromethane	242	1.00	0.394	1360	5.62	2.21		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	104		60-140
Bromochloromethane	111		60-140
chlorobenzene-d5	112		60-140

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/09/24 14:23

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1995315-4								
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/09/24 14:23

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1995315-4								
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/09/24 14:23

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1995315-4								
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	0.102	0.200	0.078	0.535	1.05	0.409	J	1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: NEST

Project Number: Not Specified

Lab Number: L2464510

Report Date: 11/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1995315-3								
Dichlorodifluoromethane	92		-		70-130	-		
Chloromethane	76		-		70-130	-		
Freon-114	87		-		70-130	-		
Vinyl chloride	86		-		70-130	-		
1,3-Butadiene	104		-		70-130	-		
Bromomethane	97		-		70-130	-		
Chloroethane	80		-		70-130	-		
Ethanol	79		-		40-160	-		
Vinyl bromide	83		-		70-130	-		
Acetone	76		-		40-160	-		
Trichlorofluoromethane	89		-		70-130	-		
Isopropanol	76		-		40-160	-		
1,1-Dichloroethene	92		-		70-130	-		
Tertiary butyl Alcohol	93		-		70-130	-		
Methylene chloride	96		-		70-130	-		
3-Chloropropene	82		-		70-130	-		
Carbon disulfide	80		-		70-130	-		
Freon-113	86		-		70-130	-		
trans-1,2-Dichloroethene	88		-		70-130	-		
1,1-Dichloroethane	82		-		70-130	-		
Methyl tert butyl ether	83		-		70-130	-		
2-Butanone	84		-		70-130	-		
cis-1,2-Dichloroethene	88		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1995315-3								
Ethyl Acetate	97		-		70-130	-		
Chloroform	95		-		70-130	-		
Tetrahydrofuran	77		-		70-130	-		
1,2-Dichloroethane	84		-		70-130	-		
n-Hexane	106		-		70-130	-		
1,1,1-Trichloroethane	100		-		70-130	-		
Benzene	90		-		70-130	-		
Carbon tetrachloride	101		-		70-130	-		
Cyclohexane	111		-		70-130	-		
1,2-Dichloropropane	90		-		70-130	-		
Bromodichloromethane	115		-		70-130	-		
1,4-Dioxane	119		-		70-130	-		
Trichloroethene	103		-		70-130	-		
2,2,4-Trimethylpentane	106		-		70-130	-		
Heptane	90		-		70-130	-		
cis-1,3-Dichloropropene	94		-		70-130	-		
4-Methyl-2-pentanone	95		-		70-130	-		
trans-1,3-Dichloropropene	98		-		70-130	-		
1,1,2-Trichloroethane	97		-		70-130	-		
Toluene	87		-		70-130	-		
2-Hexanone	76		-		70-130	-		
Dibromochloromethane	99		-		70-130	-		
1,2-Dibromoethane	78		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1995315-3								
Tetrachloroethene	73		-		70-130	-		
Chlorobenzene	77		-		70-130	-		
Ethylbenzene	87		-		70-130	-		
p/m-Xylene	88		-		70-130	-		
Bromoform	101		-		70-130	-		
Styrene	82		-		70-130	-		
1,1,2,2-Tetrachloroethane	87		-		70-130	-		
o-Xylene	87		-		70-130	-		
4-Ethyltoluene	85		-		70-130	-		
1,3,5-Trimethylbenzene	83		-		70-130	-		
1,2,4-Trimethylbenzene	84		-		70-130	-		
Benzyl chloride	96		-		70-130	-		
1,3-Dichlorobenzene	86		-		70-130	-		
1,4-Dichlorobenzene	85		-		70-130	-		
1,2-Dichlorobenzene	82		-		70-130	-		
1,2,4-Trichlorobenzene	94		-		70-130	-		
Naphthalene	89		-		70-130	-		
Hexachlorobutadiene	90		-		70-130	-		

Project Name: NEST

Lab Number: L2464510

Project Number:

Report Date: 11/11/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2464510-01	VP-1	01191	Flow 5	10/30/24	491722		-	-	-	Pass	3.0	3.3	10
L2464510-01	VP-1	687	6.0L Can	10/30/24	491722	L2461041-08	Pass	-30.0	-7.9	-	-	-	-
L2464510-02	VP-3	01352	Flow 5	10/30/24	491722		-	-	-	Pass	3.0	3.3	10
L2464510-02	VP-3	3466	6.0L Can	10/30/24	491722	L2461041-08	Pass	-30.0	-2.2	-	-	-	-
L2464510-03	VP-2	01284	Flow 5	10/30/24	491722		-	-	-	Pass	3.0	3.4	13
L2464510-03	VP-2	782	6.0L Can	10/30/24	491722	L2461041-08	Pass	-30.1	-9.1	-	-	-	-
L2464510-04	VP-4	01111	Flow 5	10/30/24	491722		-	-	-	Pass	3.0	3.4	13
L2464510-04	VP-4	589	6.0L Can	10/30/24	491722	L2461041-08	Pass	-30.0	-7.4	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2461041
Report Date: 11/11/24

Air Canister Certification Results

Lab ID: L2461041-08
Client ID: CAN 2273 SHELF 63
Sample Location:

Date Collected: 10/21/24 10:00
Date Received: 10/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/25/24 02:46
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2461041
Report Date: 11/11/24

Air Canister Certification Results

Lab ID: L2461041-08
Client ID: CAN 2273 SHELF 63
Sample Location:

Date Collected: 10/21/24 10:00
Date Received: 10/21/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2461041
Report Date: 11/11/24

Air Canister Certification Results

Lab ID: L2461041-08
Client ID: CAN 2273 SHELF 63
Sample Location:

Date Collected: 10/21/24 10:00
Date Received: 10/21/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2461041
Report Date: 11/11/24

Air Canister Certification Results

Lab ID: L2461041-08
Client ID: CAN 2273 SHELF 63
Sample Location:

Date Collected: 10/21/24 10:00
Date Received: 10/21/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2461041
Report Date: 11/11/24

Air Canister Certification Results

Lab ID: L2461041-08
Client ID: CAN 2273 SHELF 63
Sample Location:

Date Collected: 10/21/24 10:00
Date Received: 10/21/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Nitrogen	1.1	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2461041
Report Date: 11/11/24

Air Canister Certification Results

Lab ID: L2461041-08
Client ID: CAN 2273 SHELF 63
Sample Location:

Date Collected: 10/21/24 10:00
Date Received: 10/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/25/24 02:46
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2461041
Report Date: 11/11/24

Air Canister Certification Results

Lab ID: L2461041-08
Client ID: CAN 2273 SHELF 63
Sample Location:

Date Collected: 10/21/24 10:00
Date Received: 10/21/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2461041
Report Date: 11/11/24

Air Canister Certification Results

Lab ID: L2461041-08
Client ID: CAN 2273 SHELF 63
Sample Location:

Date Collected: 10/21/24 10:00
Date Received: 10/21/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	91		60-140

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2464510-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)
L2464510-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)
L2464510-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)
L2464510-04A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	NEST	**Lab Number:**	L2464510
Project Number:	Not Specified	**Report Date:**	11/11/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	NEST	**Lab Number:**	L2464510
Project Number:	Not Specified	**Report Date:**	11/11/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	NEST	**Lab Number:**	L2464510
Project Number:	Not Specified	**Report Date:**	11/11/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE _____ OF _____

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 11/6/24

ALPHA Job #: L2464510

Client Information

Client: BE3
Address: 960 Bust. Avenue
Buffalo NY 14213
Phone: 716-249-6880
Fax:
Email: JCOX@BE3corp.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Nest
Project Location: 333 1st Street
Project #:
Project Manager:
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
☐ EMAIL (standard pdf report)
☐ Additional Deliverables: _____
Report to: (if different than Project Manager) _____

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
64510-01	VP-1	11/5/24	12:30PM	12:30PM	-29.83	-6.46	SV	JG	6L	687	01191	X	X				
02	VP-3		12:30PM	12:30PM	-29.82	-0.86	SV	JG	6L	3466	01352	X	X				
03	VP-2		12:45PM	12:45PM	-29.73	-7.96	SV	JG	6L	782	01284	X	X				
04	VP-4		12:45PM	12:45PM	-30.12	-6.13	SV	JG	6L	589	01111	X	X				

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

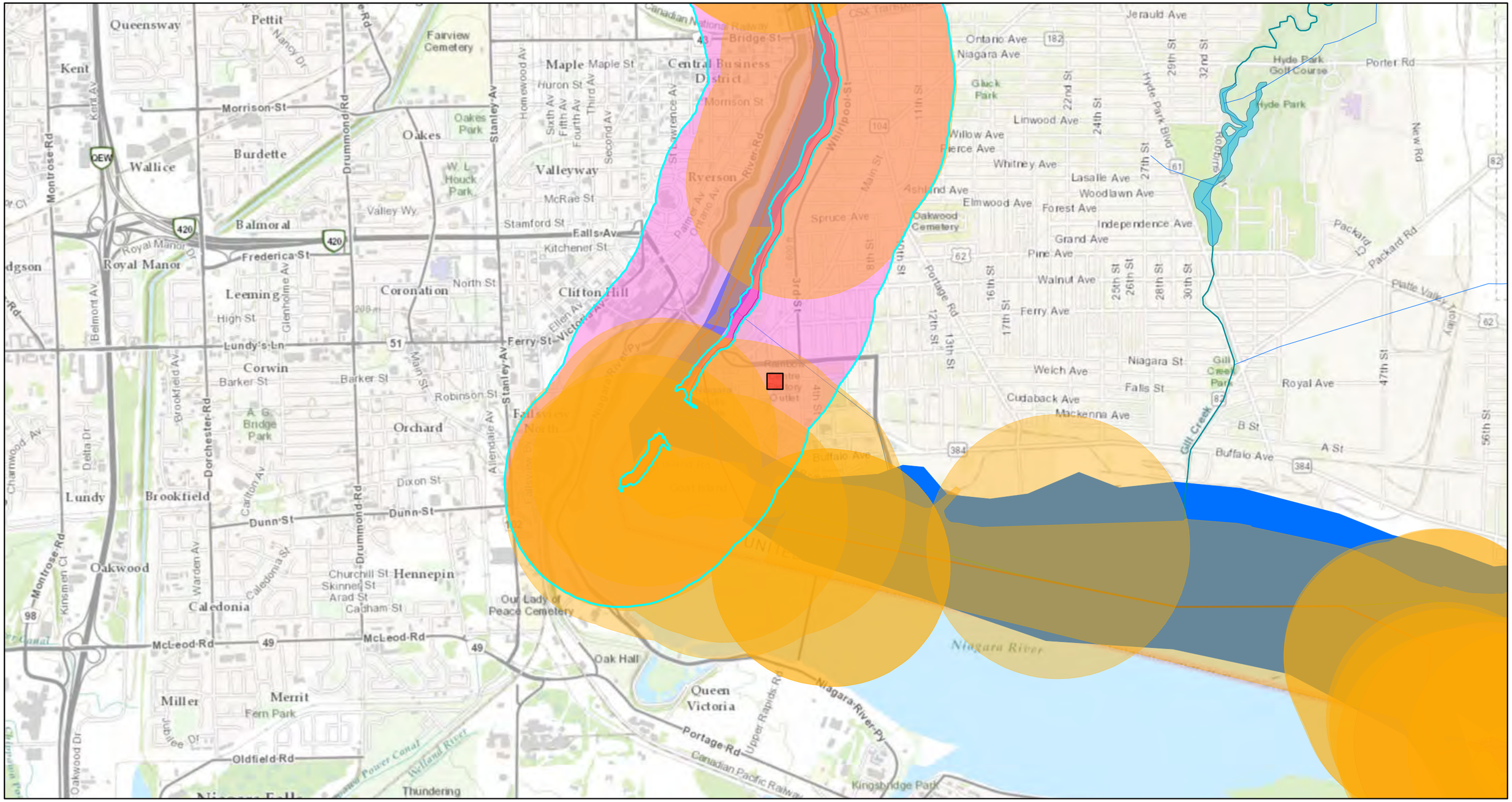
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time/clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
11/6/24 0650			
Steve Stars	11/5/24 1440	MM/L. PAGE	11/5/24 1440
MM/L. PAGE	11/5/24 1440	BUFFS.C	11/5/24 1440
Russell B Bailey	11-5-24 1512		

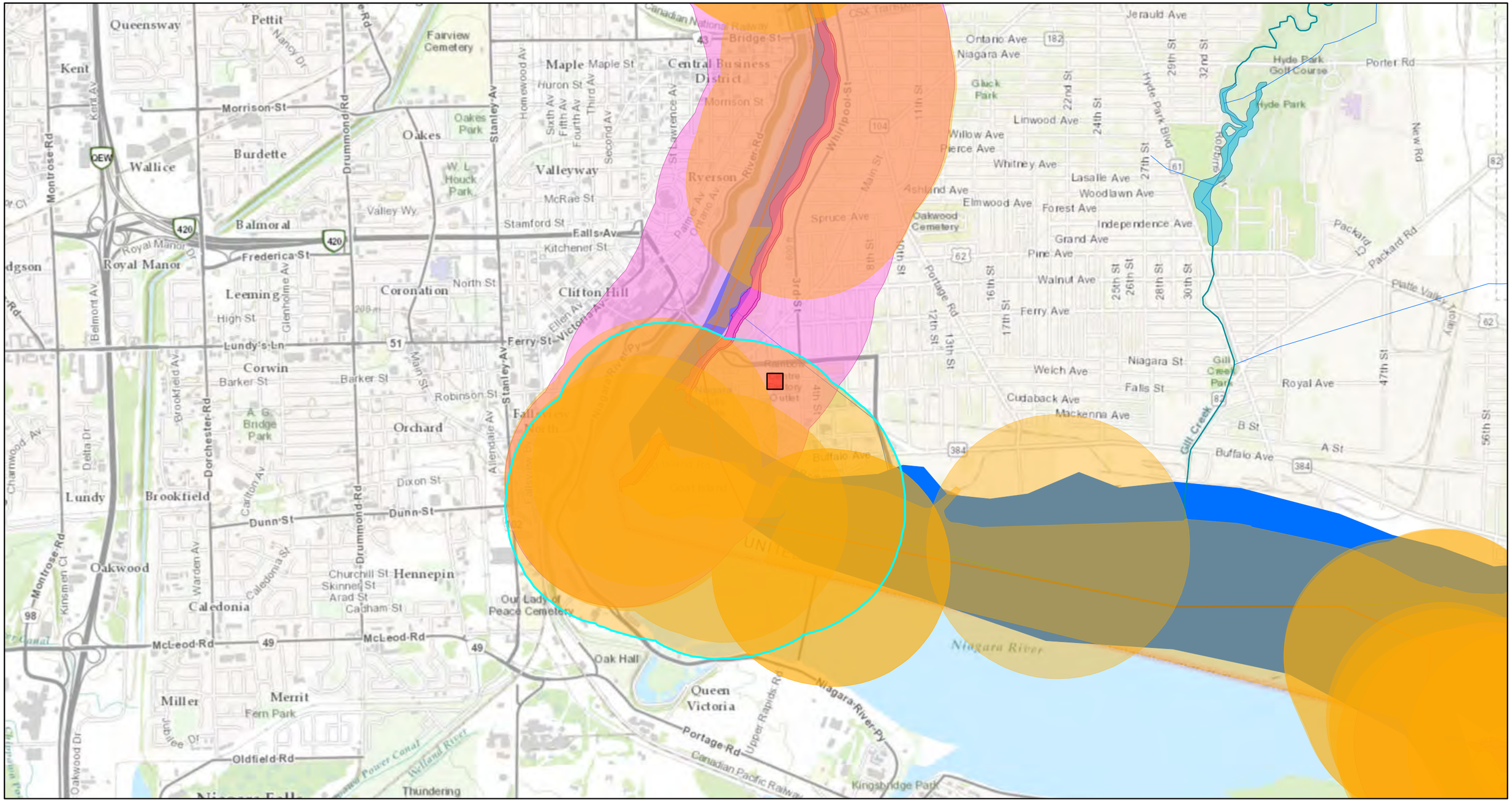
Appendix F

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?	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	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?	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.		

The Nest - Natural Communities


Queensway
Pettit
Fairview Cemetery
Kent
Morrison St
Maple
Maple St
Central Business District
Bridge St
Huron St
Oakes
Oakes Park
Burdette
Wallice
W. L. Houck Park
Valleyway
McRae St
Valley Wy
Balmoral
Stamford St
Falls Ave
Kitchener St
Royal Manor
Frederica St
Leeming
High St
Coronation
North St
Clifton Hill
Lundy's Ln
Ferry St
Corwin
Barker St
Robinson St
Orchard
A. G. Bridge Park
Fallsview
Dixon St
Lundy
Brookfield
Dunn St
Oakwood
Churchill St
Hennepin
Skinner St
Arad St
Cadham St
Caledonia
Our Lady of Peace Cemetery
McLeod Rd
Oak Hall
Miller
Merrit
Fern Park
Jubilee Dr
Oldfield Rd
Welland River
Thundering
Queen Victoria
Portage Rd
Canadian Pacific Railway
Kingsbridge Park
Niagara River
Ryerson
Spruce Ave
Oakwood Cemetery
Ontario Ave
Niagara Ave
Glick Park
Linwood Ave
Willow Ave
Pierce Ave
Whitney Ave
Ashland Ave
Elmwood Ave
Lasalle Ave
Woodlawn Ave
Forest Ave
Independence Ave
Grand Ave
Pine Ave
Walnut Ave
Ferry Ave
Weich Ave
Cudaback Ave
Mackenna Ave
Niagara St
Falls St
Buffalo Ave
B St
A St
Jerauld Ave
Hyde Park Golf Course
Hyde Park
Porter Rd
Gill Creek Park
Gill Creek
Royal Ave
Packard Rd
Platte Valley Trail
New Rd
Portage Rd
Upper Rapids Rd
Niagara River Py
Whirlpool St
River Rd
Main St
Bridge St
Morrison St
Spruce Ave
Ontario Ave
Niagara Ave
Linwood Ave
Willow Ave
Pierce Ave
Whitney Ave
Ashland Ave
Elmwood Ave
Lasalle Ave
Woodlawn Ave
Forest Ave
Independence Ave
Grand Ave
Pine Ave
Walnut Ave
Ferry Ave
Weich Ave
Cudaback Ave
Mackenna Ave
Buffalo Ave
Jerauld Ave
Porter Rd
Royal Ave
Packard Rd
Platte Valley Trail
New Rd
Portage Rd
Niagara River
Kingsbridge Park
Canadian Pacific Railway
Thundering
Oakwood
Lundy
Brookfield
Dunn St
Caledonia
Hennepin
Our Lady of Peace Cemetery
McLeod Rd
Oak Hall
Miller
Merrit
Fern Park
Jubilee Dr
Oldfield Rd
Welland River

The Nest - Freshwater Mussels



December 6, 2024

1:36,112

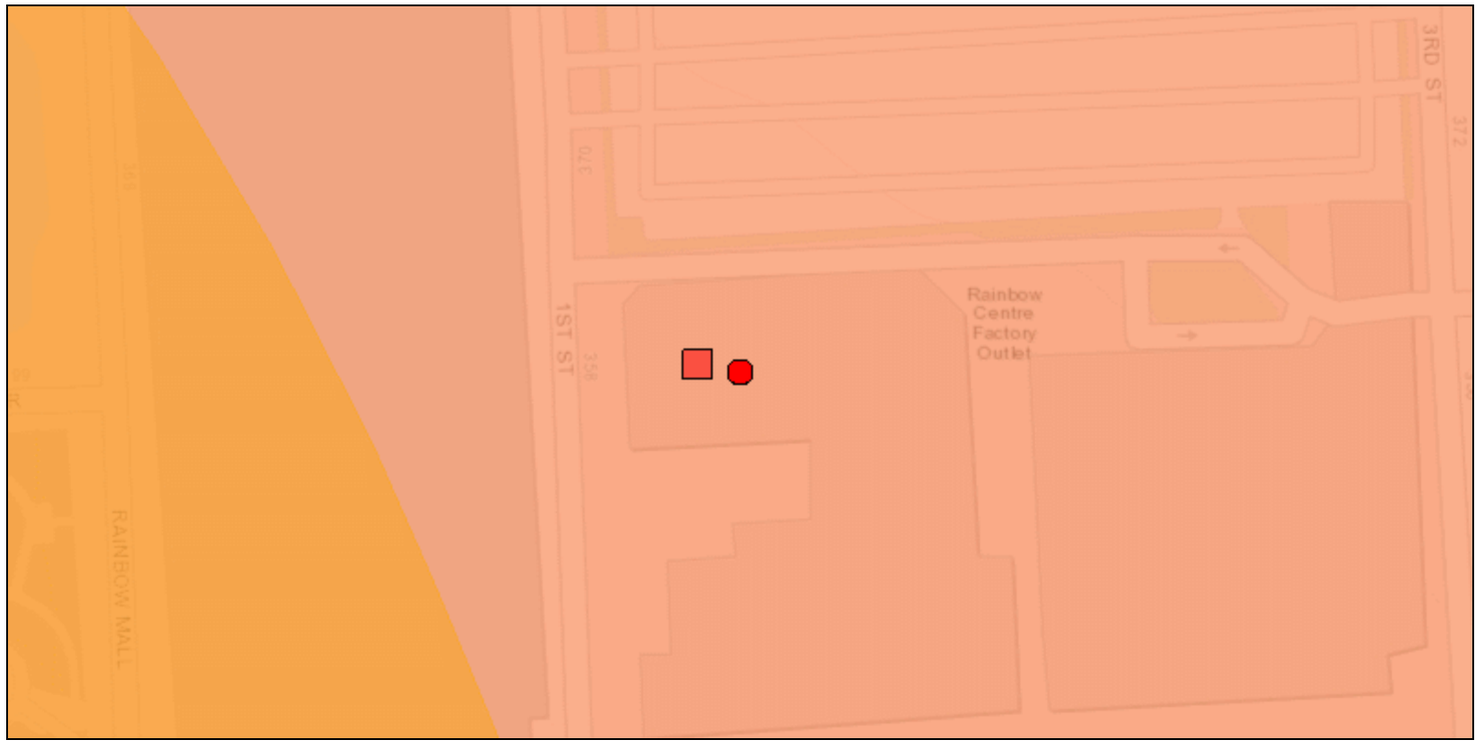
0 0.33 0.65 1.3 mi

0 0.5 1 2 km

City of Niagara Falls, City of Welland, Niagara Region, Regional Municipality of Niagara, Province of Ontario, Ontario MNR, Esri Canada, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA, AAFC, NRCan

Author: BE3
Not a legal document

Environmental Resource Mapper



The coordinates of the point you clicked on are:

UTM 18	**Easting:**	169424.4369979726	**Northing:**	4778490.426840766
Longitude/Latitude	**Longitude:**	-79.0612359411409	**Latitude:**	43.08704578687

The approximate address of the point you clicked on is:
Cardtronics

County: Niagara
City: Niagara Falls

USGS Quad: NIAGARA FALLS, NY-ONT

Natural Communities in the Vicinity

Natural Community Name: Calcareous talus slope woodland
Location: Niagara Gorge Whirlpool Woods
Significance: High Quality Occurrence of Uncommon Community Type

Natural Community Name: Calcareous cliff community
Location: Niagara Gorge Whirlpool Woods
Significance: High Quality Occurrence of Uncommon Community Type

Rare Plants and Rare Animals

This location is in the vicinity of Rare Freshwater Mussels – Not Listed by NYS

If your project or action is within or near an area with a rare animal, a permit may be required if the species is listed as endangered or threatened and the department determines the action may be harmful to the species or its habitat.

If your project or action is within or near an area with rare plants and/or significant natural communities, the environmental impacts may need to be addressed.

The presence of a unique geological feature or landform near a project, unto itself, does not trigger a requirement for a NYS DEC permit. Readers are advised, however, that there is the chance that a unique feature may also show in another data layer (ie. a wetland) and thus be subject to permit jurisdiction.

Please refer to the "Need a Permit?" tab for permit information or other authorizations regarding these natural resources.

Disclaimer: If you are considering a project or action in, or near, a wetland or a stream, a NYS DEC permit may be required. The Environmental Resources Mapper does not show all natural resources which are regulated by NYS DEC, and for which permits from NYS DEC are required. For example, Regulated Tidal Wetlands, and Wild, Scenic, and Recreational Rivers, are currently not included on the maps.

Print Preview

Appendix G

THE NEST SITE

REMEDIAL ALTERNATIVE COST ESTIMATES

ALTERNATIVE 1 - REMDIATE TO TRACK 4 - RESTRICTED RESIDENTIAL			
Item	**Unit Cost**	**Quantity**	**Total**
Mobilization/Demobilization (LS)	$10,000	1	$10,000
Excavate/dispose - Existing slab,subbase, subsurface soil (3') (Tons)	$60.00	7000	$420,000
Additional Excavate/dispose - New Build (2') (Tons)	$60.00	2300	$138,000
Import Clean Fill/Placement- 3' (Tons)	$25.00	7000	$175,000
Import Clean Fill/Foundation 2' (Tons)	$25.00	2300	$57,500
Delineation Fabric (SY)	$1.35	4700	$6,345
Imported Clean Fill Assess Sampling (LS)	$10,000	1	$10,000
Confirmation/Waste Sampling (LS)	$10,000	1	$10,000
Groundwater Monitoring	$25,000	1	$25,000
Remove 1 UST (LS)	$15,000	1	$15,000
Sub-Total			$866,845
Engineering Oversight (5 Months) (LS)	$300,000	1	$300,000
Sub-Total			$1,166,845
Contingency (10%)			$116,685
Estimated Capital Cost Total			$1,283,530
Total Cost	**$1,283,529.50**		

Assumptions:

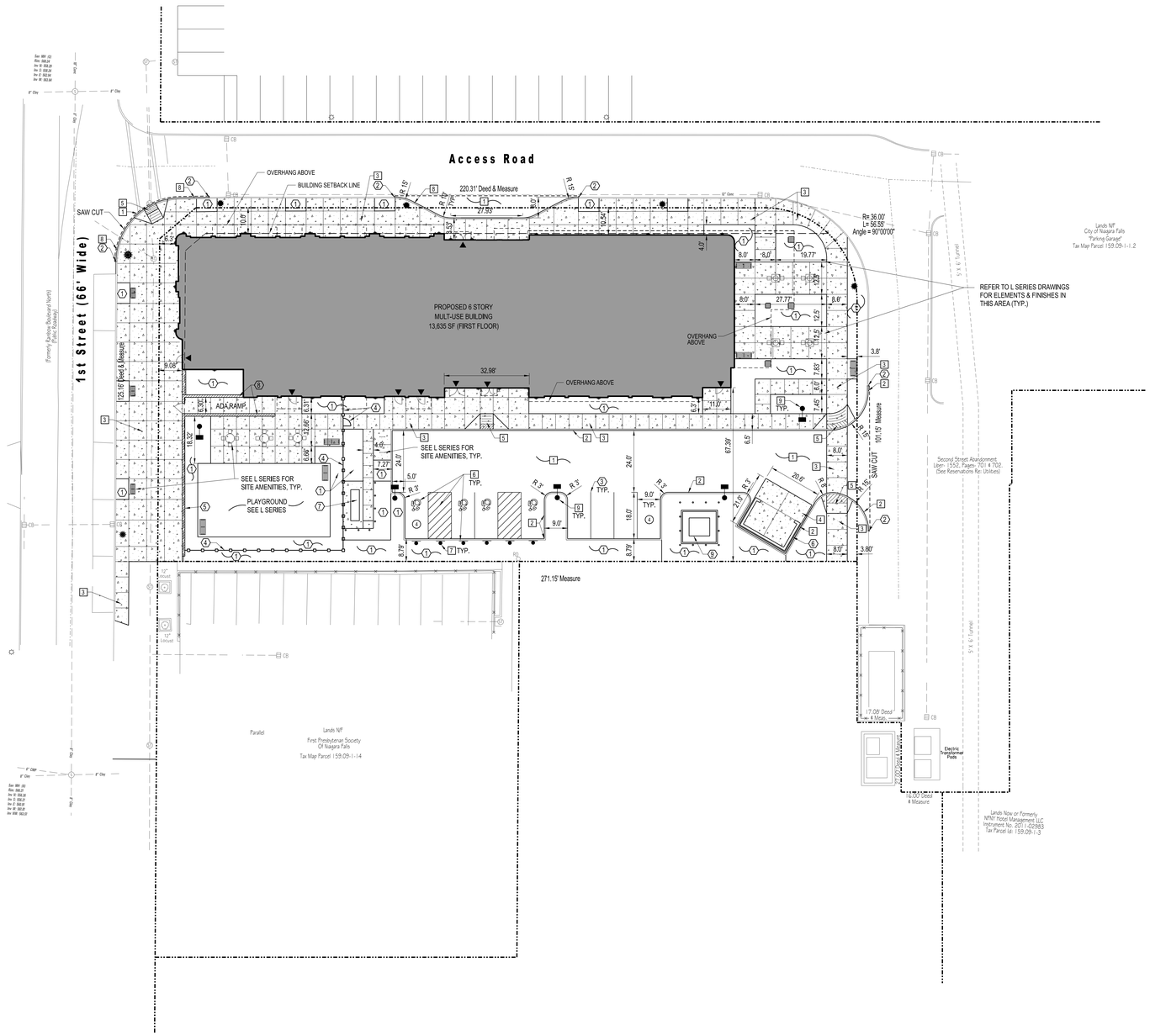
1) Conversion factor of cubic yards of soil/stone to tons is 1.5

ALTERNATIVE 2 - REMEDIATE TO TRACK 1 - UNRESTRICTED			
Item	**Unit Cost**	**Quantity**	**Total**
Mobilization/Demobilization (LS)	$10,000	1	$10,000
Excavate/dispose - Existing slab and subbase (1') (Tons)	$60.00	2340	$140,400
Excavate/dispose - 8' soil below existing slab and subbase (Tons)	$60.00	18720	$1,123,200
Import Clean Fill/Placement/Hardscape Minium 9' across the Site (Tons)	$25.00	21060	$526,500
Delineation Fabric (SY)	$1.35	4700	$6,345
Imported Clean Fill Assess Sampling (LS)	$10,000	1	$10,000
Confirmation/Waste Sampling (LS)	$10,000	1	$10,000
Groundwater Sampling (Quarterly)	$15,000	3	$45,000
Remove 1 UST (LS)	$15,000	1	$15,000
Sub-Total			$1,886,445
Engineering Oversight (5 Months) (LS)	$300,000	1	$300,000
Sub-Total			$2,186,445
Contingency (20%)			$437,289
Estimated Capital Cost Total			$2,623,734
Total Cost	**$2,623,734**		

Assumptions:

1) Conversion factor of cubic yards of soil/stone to tons is 1.5

Appendix H



SITE PLAN NOTES

1. SURVEY INFORMATION WAS PROVIDED BY NIAGARA BOUNDARY AND MAPPING SERVICES DATED 1-18-23 . C&S ENGINEERS, INC. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

2. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS AND UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION. CONTACT THE ENGINEER WITH ANY DISCREPANCIES FOUND IN THE FIELD.

3. ALL DIMENSIONS FROM PROPERTY LINES ARE 90° FROM PROPERTY LINE UNLESS OTHERWISE NOTED.

4. ALL DIMENSIONS ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED.

5. COORDINATE EXACT LOCATION OF SIDEWALKS AT DOORWAYS WITH ARCHITECTURAL PLANS.

6. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND LAYOUT.

SITE PLAN DETAIL LEGEND

1. ASPHALT PAVEMENT SECTION - SEE DETAIL 1 ON C-501
2. CONCRETE CURB - SEE DETAIL 2 ON C-501
3. CONCRETE SIDEWALK - SEE DETAIL 3 ON C-501
4. EXTERIOR CONCRETE SLAB-ON-GRADE - SEE DETAIL 4 ON C-501
5. ACCESSIBLE CURB RAMP - SEE DETAIL 5 ON C-501
6. ACCESSIBLE SIGNS & MARKINGS - SEE DETAIL 6 ON C-501
7. SIGN POST - SEE DETAIL 7 ON C-501
8. GRANITE CURB - SEE DETAIL 8 ON C-501
9. LIGHT POLE FOUNDATION - SEE DETAIL 9 ON C-501

SITE PLAN SHEET KEYNOTES

1. LANDSCAPED/LAWN AREA - REFER TO L SERIES DRAWINGS
2. MATCH EXISTING CURB OR RUN OUT IN 2'-0"
3. 4" WIDE PAINTED YELLOW PAVEMENT STRIPES
4. DECORATIVE METAL FENCE - REFER TO L SERIES DRAWINGS
5. MASONRY WALL - REFER TO L SERIES DRAWINGS
6. DUMPSTER ENCLOSURE - REFER TO L SERIES DRAWINGS
7. GENERATOR - REFER TO ELECTRICAL DRAWINGS
8. RETAINING WALL - REFER TO L SERIES DRAWINGS
9. TRANSFORMER - REFER TO ELECTRICAL DRWINGS

SITE PLAN PROPOSED LEGEND

- PROPERTY LINE
- PROPOSED SIGN
- PROPOSED CONCRETE PAVEMENT/SIDEWALK
- PROPOSED CURB
- (5) NUMBER OF PARKING SPACES
- DOOR LOCATION
- E.P. EDGE OF PAVEMENT
- LIGHTING FIXTURES
- SAW CUT LINE
- DETECTABLE WARNING SURFACE

20' 20 0 20 40FT.

PLAN NORTH

FILE PATH:

SWBR

387 East Main Street Rochester NY 14604
585.232.8300 | rochester@swbr.com

SWBR NYS Certificate of Authorization #: 233221

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C&S Engineers, Inc.
141 Elm Street, Suite 100
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Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com

HCR SHARS NO. 20230391

Drawn By:	S.S.
Checked By:	V.O.
Project Manager:	V.O.

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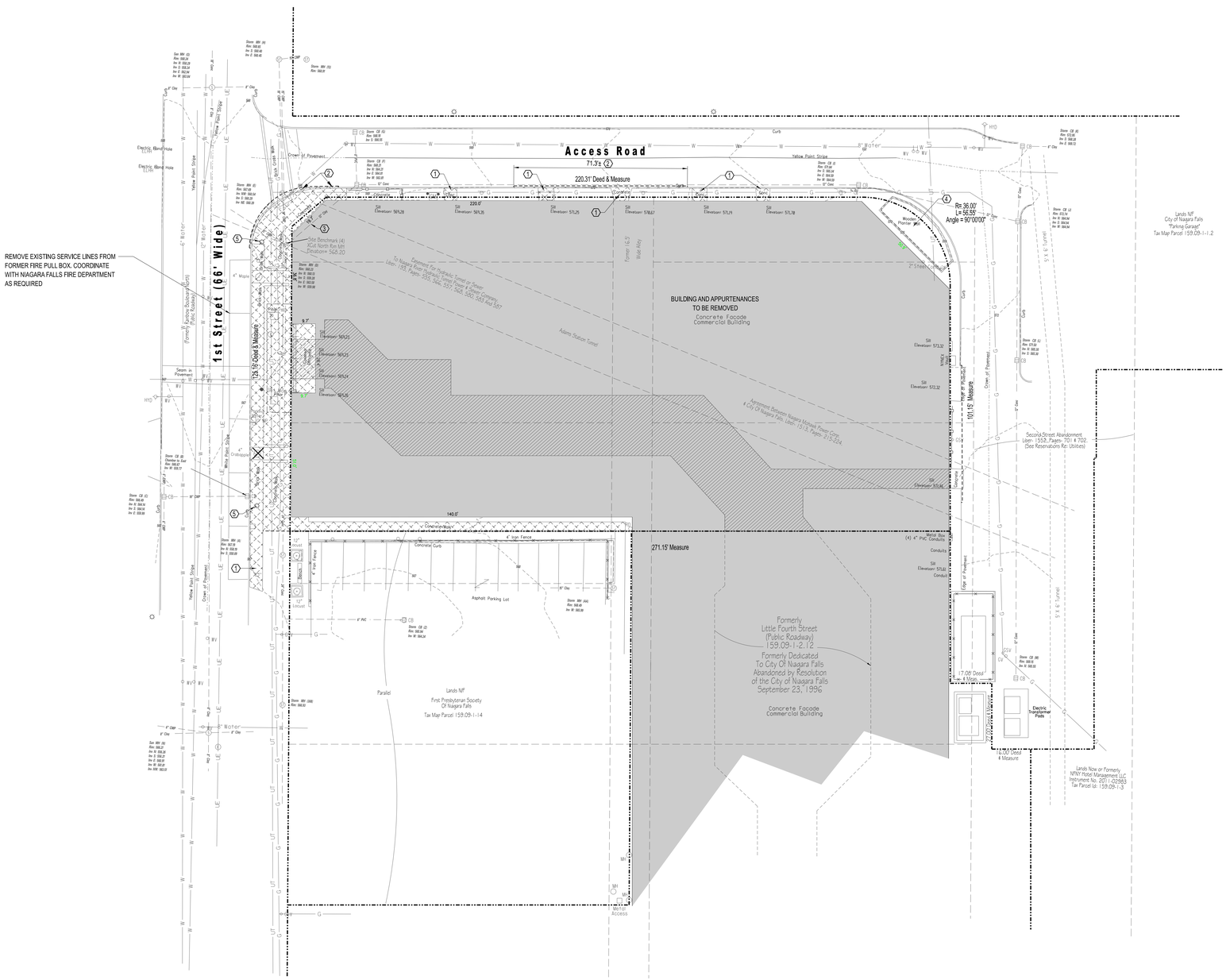
Revisions

The Nest
333 1st Street
Niagara Falls, NY 14303
SWBR Project Number 22234.00

Community Services for Every1
180 Oak Street
Buffalo, NY 14203

C-101
SITE PLAN

DECEMBER 6TH, 2024
CONSTRUCTION DOCUMENTS



DEMOLITION PLAN NOTES

1. CONTRACTOR TO REMOVE & DISPOSE OF ALL ITEMS INDICATED & ANY ITEMS INCIDENTAL TO THE CONSTRUCTION AS REQUIRED.

2. CONTRACTOR SHALL PROTECT/PRESERVE ALL EXISTING ITEMS TO REMAIN, INCLUDING, BUT NOT LIMITED TO BUILDINGS, PAVEMENT, OVERHEAD & BURIED UTILITIES, TREES LANDSCAPING, ETC. DAMAGE TO ITEMS SCHEDULED TO REMAIN SHALL BE REPAIRED OR REPLANTED AT NO ADDITIONAL COST TO THE OWNER.

3. UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL HAVE ALL UNDER -GROUND FACILITIES LOCATED AND MARKED PRIOR TO EXCAVATION/DEMOLITION/ CONSTRUCTION.

4. DISCONNECT, CAP AND REMOVE/ABANDON EXISTING UTILITIES FOR ALL BUILDINGS TO BE DEMOLISHED, UNLESS NOTED OTHERWISE. ALL UTILITY TERMINATIONS SHALL BE IN ACCORDANCE W/ THE APPLICABLE UTILITY COMPANY REQUIREMENTS.

5. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL MATERIALS/DEBRIS REMOVED FROM THE SITE.

6. CONTRACTOR TO OBTAIN HIGHWAY WORK PERMIT PRIOR TO THE START OF CONSTRUCTION. CALL FOR STAKEOUT OF UTILITIES BEFORE STARTING WORK. NOTIFY ENGINEER OR OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES FOUND IN THE FIELD.

7. THIS PLAN IS PREPARED FROM A SURVEY SHOWING KNOWN SURFACE FEATURES. IT IS INTENDED AS A GUIDE TO THE CONTRACTOR, NOT AS A COMPLETE AND UNIVERSAL DEMOLITION PLAN. SEE THE SITE PLAN. MORE FEATURES (NOT INDICATED) MAY REQUIRE DEMOLITION TO CONSTRUCT THE SITE PLAN. CONTRACTOR MUST VISIT THE SITE TO CONFIRM DEMOLITION EFFORT PRIOR TO BIDDING.

8. REMOVE CONCRETE SIDEWALK AND/OR PAVEMENT TO THE LIMITS INDICATED. SAW CUT CONCRETE TO THE NEAREST EXISTING CONTROL/EXPANSION JOINT.

9. BUILDING DEMOLITION SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS/REGULATIONS.

10. MAINTAIN STORM SEWER CONTINUITY & POSITIVE DRAINAGE DURING DEMOLITION, REMOVAL & CONSTRUCTION OF STORM SEWERS & INLETS.

DEMOLITION PLAN SHEET KEYNOTES

1. REMOVE EXISTING CONCRETE/ASPHALT PAVEMENT & SUBBASE AND/OR MASONRY UNITS
2. ACCESS ROAD CURB SHALL BE SAW CUT FULL-DEPTH AND NEATLY REMOVED FROM THE BACKSIDE. ACCESS ROAD ROAD PAVEMENT SHALL NOT BE DISTURBED AND THE PAVEMENT EDGE SHALL BE USED AS A FORM FOR PLACING NEW CURB.
3. REMOVE STORM PIPE
4. REMOVE PLANTER
5. REMOVE LIGHT POLE & FIXTURE, STORE AND REINSTALL ON NEW BASE

DEMOLITION PLAN LEGEND

CONCRETE/ASPHALT PAVEMENT/MASONRY UNITS TO BE REMOVED

20 0 20 40Ft.
20'

PLAN NORTH

FILE PATH:

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387 East Main Street Rochester NY 14604
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Checked By:	V.O.
Project Manager:	V.O.

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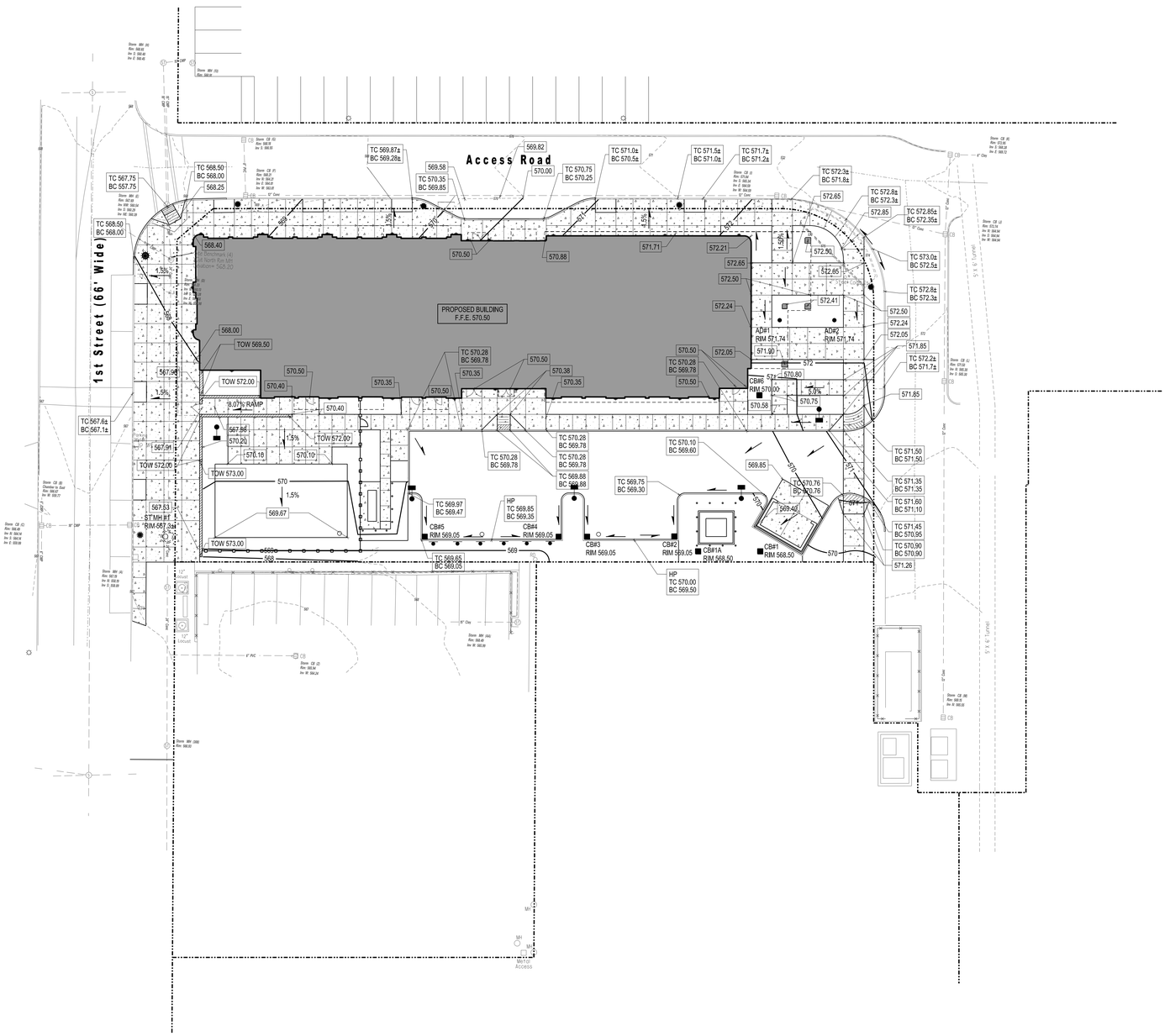
Revisions

The Nest
333 1st Street
Niagara Falls, NY 14303
SWBR Project Number 22234.00

Community Services for Every1
180 Oak Street
Buffalo, NY 14203

C-102
DEMOLITION PLAN

DECEMBER 6TH, 2024
CONSTRUCTION DOCUMENTS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8.07% RAMP
TOW 569.50
TOW 572.00
TOW 572.00
TOW 573.00
TOW 573.00
ADA#1
RIM 571.74
ADA#2
RIM 571.74
CB#6
RIM 570.00
CB#5
RIM 569.05
CB#4
RIM 569.05
CB#3
RIM 569.05
CB#2
RIM 569.05
CB#1A
RIM 569.50
CB#1
RIM 568.50
STMH #1
RIM 567.34
TC 567.75
BC 557.75
TC 568.50
BC 568.00
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BC 568.00
TC 567.6±
BC 567.1±
TC 569.87±
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TC 570.35
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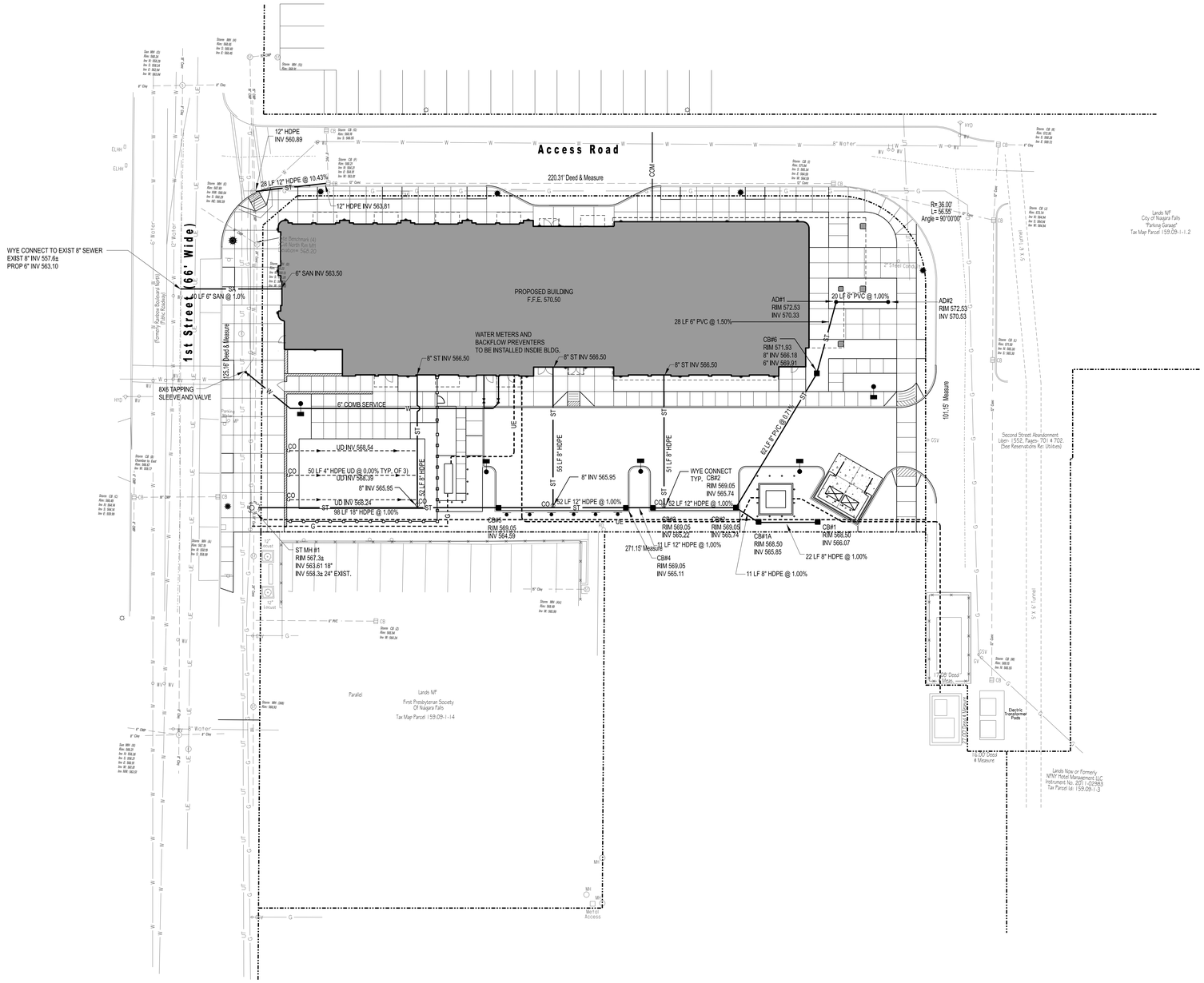

UTILITY PLAN LEGEND

EXISTING SANITARY SEWER	SA
EXISTING STORM SEWER	ST
EXISTING WATER MAIN	W
EXISTING ELECTRIC	UE
EXISTING GAS	G
PROPOSED SANITARY SEWER	SA
PROPOSED STORM SEWER	ST
PROPOSED WATER MAIN	W
PROPOSED ELECTRIC	E
PROPOSED GAS	G
PROPOSED HYDRANT	
PROPOSED MANHOLE	
PROPOSED CATCH BASIN	
PROPOSED YARD DRAIN	YD
PROPOSED CLEAN OUT	C.O.
PROPOSED LIGHT STANDARD	

20' 20 0 20 40FL

PLAN NORTH

FILE PATH:

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Revisions

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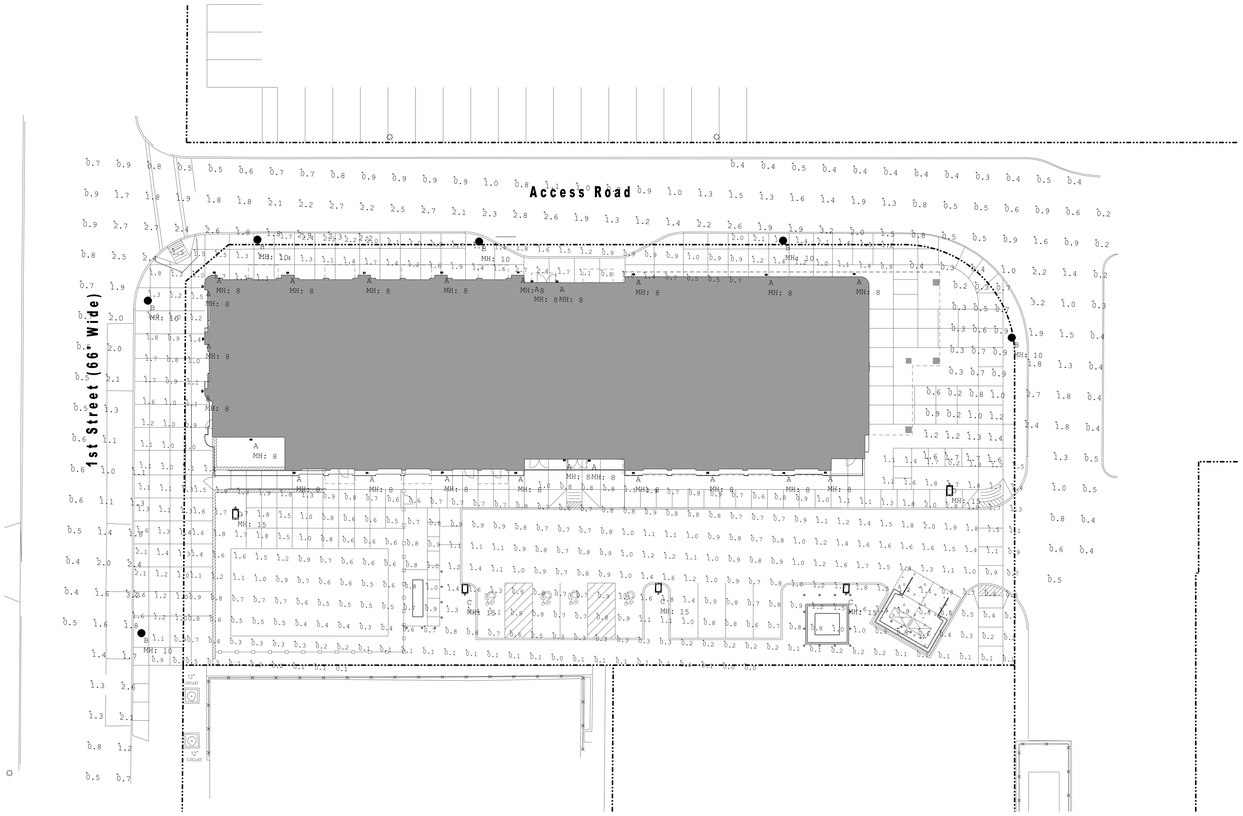
C-104
UTILITY PLAN

DECEMBER 6TH, 2024
CONSTRUCTION DOCUMENTS



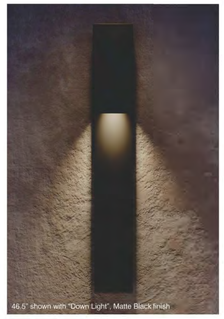
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts_1	Illuminance	Fc	0.87	2.0	0.0	N.A.	N.A.
Patio	Illuminance	Fc	0.84	1.7	0.2	4.20	8.50
Street	Illuminance	Fc	1.27	3.2	0.2	6.35	16.00
Street Walks	Illuminance	Fc	1.36	2.7	0.5	2.72	5.40

Luminaire Schedule					
Symbol	Tag	Qty	[MANUFAC]	[LUMCAT]	Luminaire Lumens
	A	24	Alva Light	Brian MT1	282
	B	6	Holophane	PTE2 P30 40K XX AY3 PHSS90	6800
	C	3	Lithonia Lighting	DSX0 LED P1 40K T5W MVOLT HS	3211
	D	2	Lithonia Lighting	DSX0 LED P1 40K T5M MVOLT	4891

Brian

alva

ARCHITECTURAL SCALE, WET-LISTED OUTDOOR DECORATIVE ACCENT LIGHT



TITLE 24 | ADA COMPLIANT | 10YR WARRANTY | ETL LISTED

APPLICATIONS

Decorative accent light for building facades. Designed to provide a gentle downward or up and downward light accent.

SHADE DIMENSIONS

- 7"W x 15.5"H x 4"D
- 7"W x 31"H x 4"D
- 7"W x 46.5"H x 4"D

WEIGHT

- 15.5"H - 6 lb
- 31"H - 8 lb
- 46.5"H - 12 lb

MOUNTING

- Steel mounting system with mounting plate and cover with rubber gaskets between the junction box and mounting plate. Mounts to center of J-box at 5.5" from top of rectangular shade

SPECIFICATIONS

- Dark Sky Compliant, Full cut-off (applies to "Down Light" version)
- High efficiency, fully integrated proprietary LED module
- IP66 Rated
- BUG Rating B1-U0-G0
- 120-277V input
- 100,000+ hours rated life time
- 10 Year Limited Warranty (excludes shade)
- Title 24 Compliant
- ADA Compliant

LAMPING

- 2700K, 3000K, 3500K, 4000K CCT
- MT1 (down light) 282 lumens delivered
- MT2 (down and up) 282 lumens down, 282 lumens up
- 33W

CONSTRUCTION

Manufactured from aluminum with industrial powder coat finish

D-Series Size 0

LED Area Luminaire

d-series

Catalog Number

Notes

Type

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Specifications

EPA: 0.95 ft² (.09 m²)

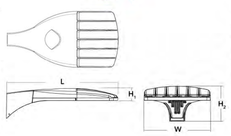
Length: 26" (66.0 cm)

Width: 13" (33.0 cm)

Height$_L$: 3" (7.62 cm)

Height$_H$: 7" (17.5 cm)

Weight (max): 16 lbs (7.25kg)



A+ Capable options indicated by this color background.

Ordering Information **EXAMPLE:** DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature	Distribution		Voltage	Mounting
DSX0 LED	Forward optics: P1 P4 P7, P2 P5, P3 P6. Rotated optics: P10 P12, P11 P13	30K 3000K, 40K 4000K, 50K 5000K	T1S Type I short (Automotive), T2S Type II short, T2M Type II medium, T3S Type III short, T3M Type III medium, T4M Type IV medium, T5FTM Forward throw medium, T5VS Type V very short, T5S Type V short, T5M Type V medium, T5W Type V wide, BLC Backlight control, LCCO Left corner cutoff, RCCO Right corner cutoff		MVOLT, 120, 208, 240, 277, 347, 480	Shipped included: SPA Square pole mounting, RPA Round pole mounting, WBA Wall bracket, SPUMBA Square pole universal mounting adaptor, RPUMBA Round pole universal mounting adaptor. Shipped separately: KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)

Control options		Other options	Finish
Shipped installed: NLTAIR2 nLight AIR generation 2 enabled; PIRHN Network, high/low motion/ambient sensor; PER NEMA twist-lock receptacle only (control ordered separately); PER5 Five-pin receptacle only (control ordered separately); PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separately). DMG 0-10V dimming extend out back of housing for external control (control ordered separately). PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc. PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc. PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc. PIRH1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc. FAO Field adjustable output.		Shipped included: HS House-side shield, SF Single fuse (120, 277, 347V), DF Double fuse (208, 240, 480V), L90 Left rotated optics, R90 Right rotated optics, DDL Diffused drop lens. Shipped separately: BS Bird spikes, EGS External glare shield	DDBXD Dark bronze, DBLXD Black, DNAXD Natural aluminum, DWHXD White, DDBTXD Textured dark bronze, DBLBXD Textured black, DNATXD Textured natural aluminum, DWHGXD Textured white

LITHONIA LIGHTING COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com/contact

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HOLOPHANE® LEADER IN LIGHTING SOLUTIONS

Catalog Number

Notes | Type

PTUE3

Utility Taft Postop LED

SPECIFICATIONS

General Description

The decorative post top lantern is ideal for lighting city streets, residential areas, campuses, parking lots, and walkways. The architectural luminaire consists of a luminaire housing, a prismatic optic, and a decorative cover.

Optical Assembly

The optical assembly consists of a prismatic glass or acrylic refractor to precisely distribute light with excellent visual comfort and reduced glare. Configurable with CCT options of 2700K, 3000K, and 4000K. CRI is 70 minimum. Available in symmetric and asymmetric distributions.

Electrical Assembly

The cast aluminum electrical housing allows tool-less access with a spring loaded latch. The hidden hinge allows the door to swing open and remain open for easy access. A (3) station terminal block is provided to accept #14 through #2 size wire. The programmable LED driver includes 0-10V dimming with optional DALI dimming. Driver is available in 120-277V, 347-480V, and 277V-480V options (50/60 Hz). Driver life is rated to at least 100,000 hours. The 277V-480V (VOLT) option includes enhanced power quality protection for maximum robustness against loss of neutral, voltage transients, harmonic disturbances, and other real-world power quality disturbances.

Finish

The luminaire housing and decorative cover are low copper cast aluminum and finished with corrosion resistant super durable powder coat paint for maximum durability. Rigorous multi-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5,000 hours exposure to salt fog chamber (operated per ASTM B117)

Mounting

Luminaire includes an integral slipfitter that accepts a 3" tall by Ø2-7/8" – 3-1/8" O.D. tenon. Secured to the tenon by 6 set screws

Control Options

Optional controls include:

- Field adjustable output (AO) module for manual adjustment of lumen output of the luminaire
- Industry standard 7-pin NEMA photocontrols, optionally mounted inside the housing or externally in place of the finial
- "nLight AIR enabled" for connection to nLight AIR wireless control networks via internally mounted antenna (NLTAIR2) or via motion-sensing photocontrol (RSBDBG/DALI compatible drivers. Contact factory for details.
- Customization of lumen packages is possible. Consult factory for details.

Listing

The luminaire is CSA certified to US and Canadian standards. 20kV/10kA extreme surge protection per ANSI/IEEE C136.2. Suitable for operation in ambient temperatures from -40°C to 40°C. Optical chamber is sealed to IP66.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Government Procurement

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented at the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/resources/buy-american for additional information.

Warranty

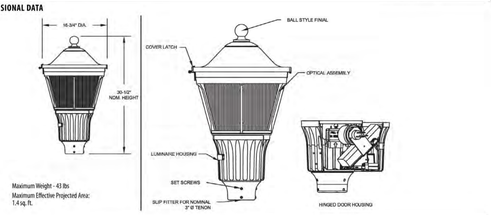
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

DIMENSIONAL DATA



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HCR SHARS NO. 20230391

Drawn By:	S.S.
Checked By:	V.O.
Project Manager:	V.O.

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Revisions

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SWBR Project Number 22234.00

Community Services for Every1
180 Oak Street
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C-105

PHOTOMETRIC PLAN

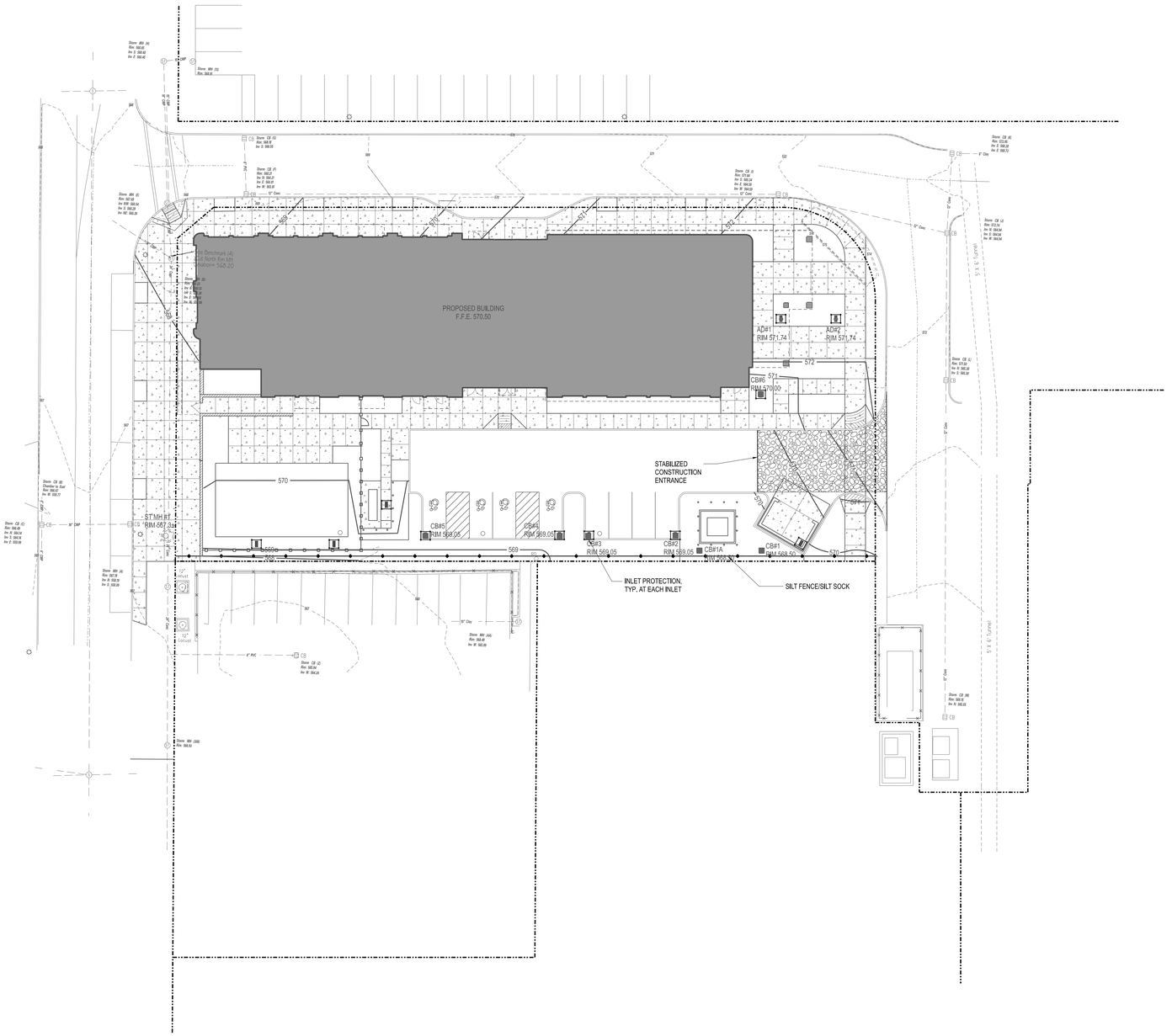
DECEMBER 6TH, 2024

CONSTRUCTION DOCUMENTS

20' 20 0 20 40FL

PLAN NORTH

FILE PATH:



EROSION CONTROL PLAN LEGEND

- INLET PROTECTION
- SILT FENCE/SILT SOCK
- STABILIZED CONSTRUCTION ENTRANCE

20' 20 0 20 40FL

PLAN NORTH

FILE PATH:

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Drawn By:	S.S.
Checked By:	V.O.
Project Manager:	V.O.

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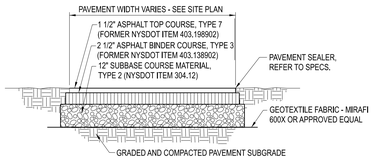
EROSION & SEDIMENT CONTROL PLAN

DECEMBER 6TH, 2024

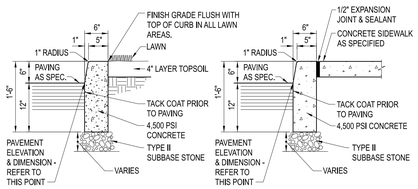
CONSTRUCTION DOCUMENTS



NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO FORMER NYSDOT STANDARD SPECIFICATION 401.3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304.3.

ASPHALT PAVEMENT SECTION 1

SCALE:NTS

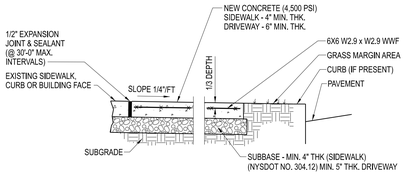


GRASS/LANDSCAPED AREAS SIDEWALK AREAS

NOTE: CONTROL JOINTS TO BE 2" DEEP AT 15'-0". SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700

CONCRETE CURB 2

SCALE:NTS



CROSS SECTION

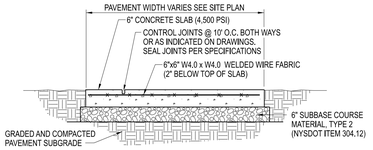
NOTES:

1. CONTROL JOINTS TO BE AT 5'-0" O.C. BOTH WAYS OR AS SHOWN ON DRAWINGS. SEAL JOINTS PER SPECIFICATIONS.

2. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3

CONCRETE SIDEWALK 3

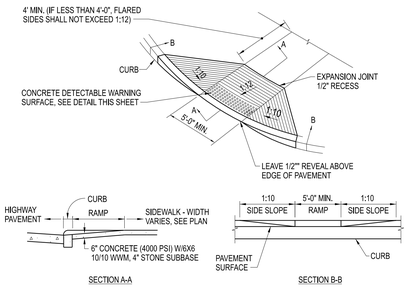
SCALE:NTS



NOTE: CONCRETE PAVEMENT MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 502.3

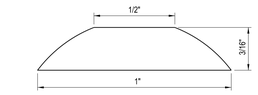
EXTERIOR CONCRETE SLAB-ON-GRADE SECTION 4

SCALE:NTS

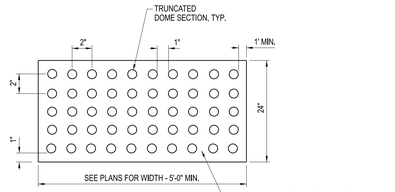


ACCESSIBLE CURB RAMP 5

SCALE:NTS



TRUNCATED DOME SECTION

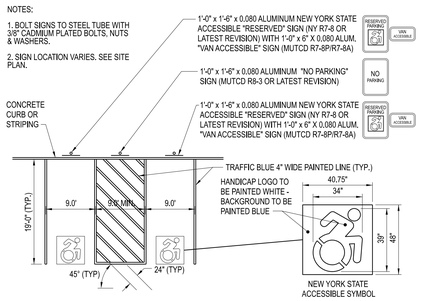


DOME SPACING

NOTE:
DETECTABLE WARNING DEVICES SHALL BE PER 2010 ADA STANDARDS SECTION 705 OR THE MOST CURRENT UPDATE

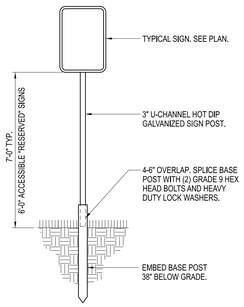
DETECTABLE WARNING SURFACE

SCALE:NTS



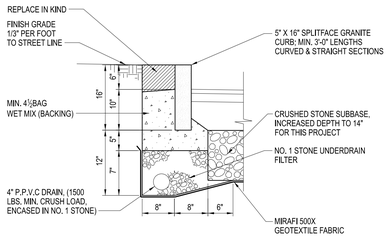
ACCESSIBLE SIGNS & MARKINGS 6

SCALE:NTS



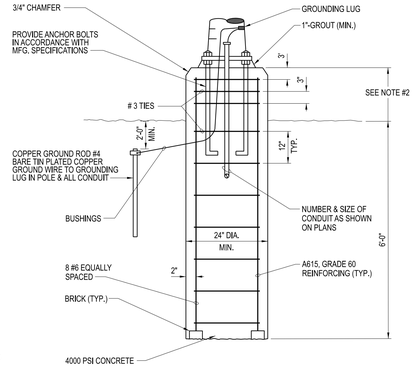
SIGN POST 7

SCALE:NTS



GRANITE STONE CURB DETAIL (CITY OF NIAGARA FALLS) 8

SCALE:NTS



NOTES:

1. AUGER HOLES FOR FOOTING, INSPECT THE EXCAVATION & NOTIFY THE ENGINEER OF UNSUITABLE MATERIALS BEFORE PLACING THE STEEL & CONCRETE.

2. LIGHT POLE BASE SHALL BE: 30" ABOVE GRADE IN PAVED AREAS
12" ABOVE THE CURB IN LANDSCAPED AREAS
30" ABOVE GRADE IN AREAS W/O CURBING

3. FOR LOCATIONS OF LIGHT POLES, SEE SIGHT PLAN.

LIGHT POLE FOUNDATION 9

SCALE:NTS

FILE PATH:

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Checked By:	V.O.
Project Manager:	V.O.

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Revisions

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SWBR Project Number 22234.00

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160 Oak Street
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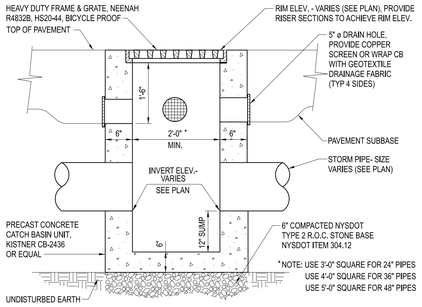
C-501

SITE DETAILS

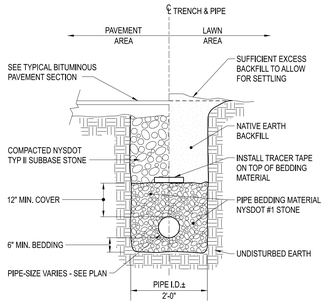
DECEMBER 6TH, 2024

CONSTRUCTION DOCUMENTS



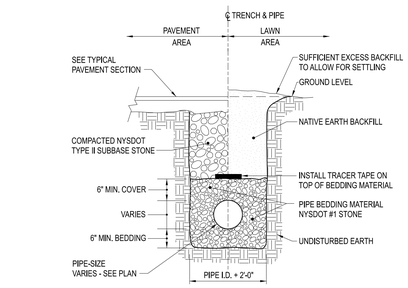
TYPICAL PRECAST CATCH BASIN

SCALE: NTS



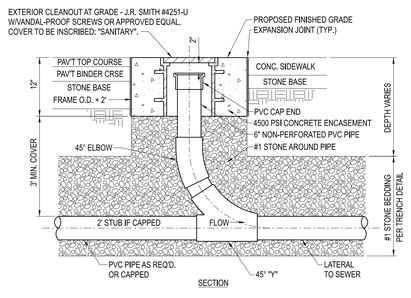
STORM PIPE TRENCH SECTION

SCALE: NTS



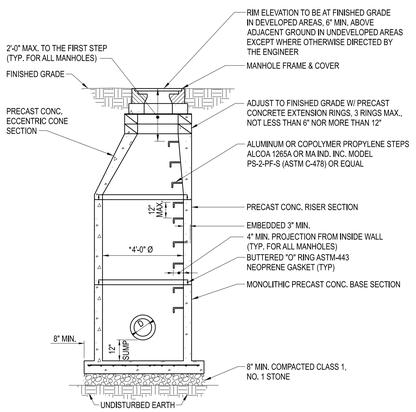
SANITARY SEWER TRENCH SECTION

SCALE: NTS



TYPICAL SANITARY SEWER CLEANOUT IN PAVEMENT AREAS

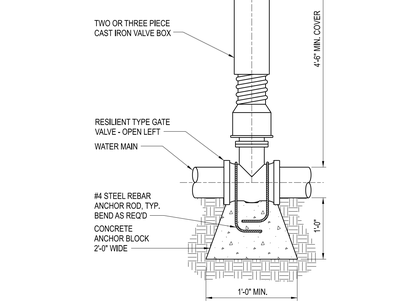
SCALE: NTS



NOTE:
PROVIDE HEAVY DUTY NEENAH R-1792-FG OPEN GRATE AND FRAME FOR ALL STORM MANHOLES
PROVIDE HEAVY DUTY NEENAH R-1792-FL FRAME AND COVER FOR ALL SOLID COVER MANHOLES

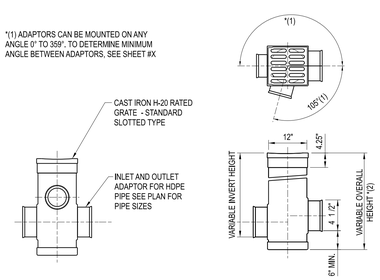
PRECAST CONCRETE STORM MANHOLE DETAIL

SCALE: NTS



TYPICAL VALVE SETTING DETAIL

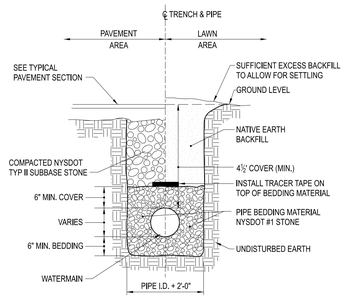
SCALE: NTS



*(2) MAXIMUM RECOMMENDED OVERALL HEIGHT 10'

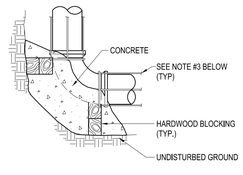
12" YARD DRAIN

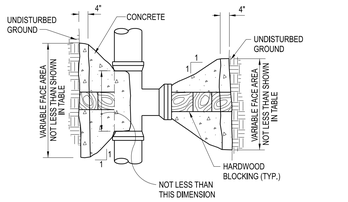
SCALE: NTS

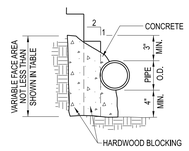


TYPICAL WATERLINE TRENCH SECTION

SCALE: NTS



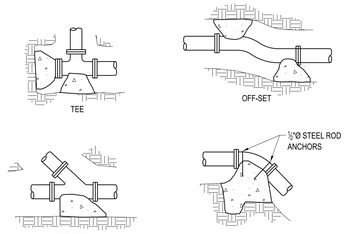




TYPICAL THRUST BLOCKING DETAILS FOR TEES, PLUGS AND BENDS

PIPE SIZE	AREA SQ. IN.	TOTAL PRESS. IN LBS.	AREA OF BLOCK IN SQUARE FEET				
			TEES PLUGS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	26	5,800	1.5	2.1	1.1	1.0	1.0
6"	48	10,800	2.7	3.8	2.1	1.0	1.0
8"	79	17,800	4.5	6.3	3.5	2.0	1.0
10"	114	25,700	6.4	9.0	4.9	2.5	1.25
12"	158	35,600	9.0	12.7	6.9	3.5	2.0

NOTES:
1. THRUST BLOCKS ARE TO BE CONSTRUCTED OF DRY-MIX PORTLAND CEMENT ATTAINING 3000 AT 28 DAYS.
2. THRUST BLOCKS ARE TO BE USED IN CONJUNCTION WITH LOCKING COLLARS
3. PROVIDE TIE-RODS OR MEGA-LUGS TO ALIGNMENT CONCRETE THRUST BLOCKS AS SHOWN.



TYPICAL THRUST BLOCK PAVEMENT

SCALE: NTS

STABILIZED CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE - USE 2" STONE, WASHED, CRUSHED.

2. LENGTH - NOT LESS THAN 50 FEET

3. THICKNESS - NOT LESS THAN SIX (6) INCHES

4. WIDTH - TWELVE (12) FOOT MINIMUM, BU NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.

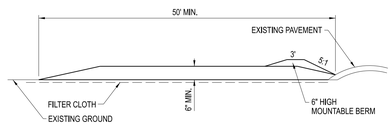
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

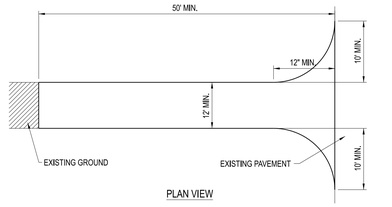
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC-RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE & WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

9. PERIODIC INSPECTION & NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



PROFILE



PLAN VIEW

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS

EROSION CONTROL NOTES:

THE FOLLOWING EROSION CONTROL PROCEDURE SHALL BE ADHERED TO BY THE CONTRACTOR:

1. INSTALL TEMPORARY SILT FENCE BARRIERS AS SHOWN ON THE PLAN AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT FENCE/SOCK BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.

2. THE TOPSOIL SHALL BE STRIPPED & STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE AND/OR REMOVAL OF TOPSOIL FROM THE SITE MUST BE FOLLOWED.

3. ALL SILT FENCES/SOCKS SHALL BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENNACE & REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.

5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR AND WATER APPLIED AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.

6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED & ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.

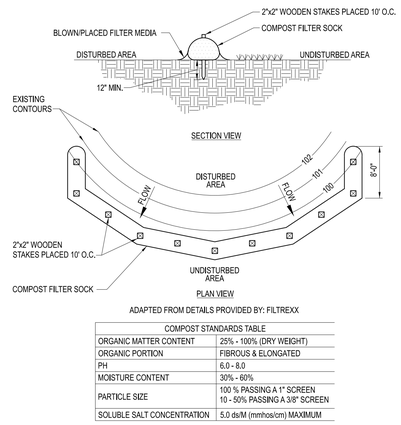
7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH & SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE & AS SOON AS PHYSICALLY POSSIBLE.

8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES & CULVERTS. SILT BUILD-UP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN.

9. IN ADDITION TO STORM WATER DISCHARGES, THE FOLLOWING NON-STORM WATER DISCHARGES MAY CONTRIBUTE TO THE RUN-OFF FROM THE SITE:

- WATER FROM WATER SERVICE FLUSHINGS
- WATER USED TO WASH DOWN CONSTRUCTION VEHICLES (NO DETERGENTS)
- WATER USED FOR DUST CONTROL
- UNCONTAMINATED GROUNDWATER

10. THE ABOVE NON-STORM WATER FLOWS SHALL BE TREATED IN THE SAME MANNER AS STORM WATER FLOWS INDICATED HERIN.



ADAPTED FROM DETAILS PROVIDED BY: FILTREXX

COMPOST STANDARDS TABLE	
ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT)
ORGANIC PORTION	FIBROUS & ELONGATED
PH	6.0 - 8.0
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	100 % PASSING A 1" SCREEN 10 - 50% PASSING A 3/8" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 ds/M (mmhos/cm) MAXIMUM

1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 5.1. COMPOST SHALL MEET THE STANDARDS LISTED ON OF TABLE 5.2.

2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (FIGURE 5.2). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE X.X. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.

3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT OF THE SOCK & DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

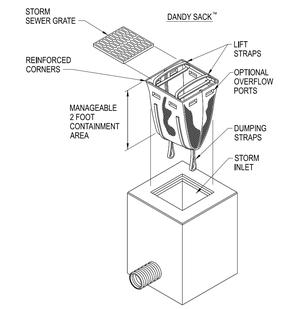
5. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

6. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCKS, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCK

SCALE: NTS



DANDY SACK™ SPECIFICATIONS

NOTE: THE DANDY SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

REGULAR FLOW DANDY SACK™ (BLACK)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
GRAB TENSILE ELONGATION	ASTM D 4632	%	15 x 15
PUNCTURE STRENGTH	ASTM D 4833	kN (lbs)	0.67 (150)
MULLEN BURST STRENGTH	ASTM D 3786	kPa (psi)	5506 (800)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (lbs)	0.67 (150) x 0.73 (165)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
FLOW RATE	ASTM D 4491	l/min/m² (gal/min/ft²)	2852 (70)
PERMITTIVITY	ASTM D 4491	Sec-1	0.90

HI-FLOW DANDY SACK™ (SAFETY ORANGE)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	kN (lbs)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	kPa (psi)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
FLOW RATE	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
PERMITTIVITY	ASTM D 4491	Sec-1	2.1

*NOTE: DANDY SACKS™ CAN BE ORDERED WITH OUR OPTIONAL OIL ABSORBENT PILLOWS.

FILTER SACK INLET PROTECTION

SCALE: NTS

SWBR
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585 232 8300 | rochester@swbr.com
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Drawn By:	S.S.
Checked By:	V.O.
Project Manager:	V.O.

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Revisions

The Nest
333 1st Street
Niagara Falls, NY 14303
SWBR Project Number 22234.00

Community Services for Every1
180 Oak Street
Buffalo, NY 14203

C-502
UTILITY DETAILS

DECEMBER 6TH, 2024
CONSTRUCTION DOCUMENTS

FILE PATH:

Appendix I

DATA USABILITY SUMMARY REPORT (DUSR)

The NEST Site
333 1st Street
Niagara Falls, NY 14303
BCP Site # C932183

SDG: J224373-1
1 soil sample

Prepared for:

BE3 Corp.
960 Busti Avenue
Suite 150-B
Buffalo, NY 14213
Attention: Jacob Cox

December 2024

EDU *Environmental Data Usability 10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
BE3 SDG J224373-1: The NEST Site – Niagara Falls, NY

The data associated with this Sample Delivery Group (SDG) J224373-1, analyzed by Eurofins Buffalo, Buffalo, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/9/2024

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	The NEST Site 333 1st Street Niagara Falls, NY 14303 BCP Site #: C932183
SAMPLING DATE:	October 15, 2024
SAMPLE TYPE:	1 soil sample
LABORATORY:	Eurofins Buffalo Buffalo, NY
SDG No.:	J224373-1

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 1 soil sample collected on October 15, 2024. This sample was analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), Pesticides, PCBs, Herbicides, PFASs, Metals, TCN, and Hexavalent Chromium (Cr+6).

All analyses were performed by Eurofins Buffalo, Buffalo, NY and analyzed as SDG J224373-1. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-8. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG J224373-1, one sample was analyzed and results were reported for 204 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have rejected/qualified and the corresponding QC reasons.

NOTE: 1) As noted by the laboratory, the soil samples were not collected following SW846 5035A protocol. This adds an element of uncertainty to the analytical results for volatile organic analytes (VOAs). Although not specifically indicated on the final data sheets with a "J" flag, the VOA analytical results should be considered estimated, but usable.

Table 6-1 8260 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
RI-MW-3 (2-4')	1,1,2,2-Tetrachloroethane 1,2,4-Trichlorobenzene DBCP 2-Butanone	J detects UJ non-detects	MS/MSD rec < QC limit	Data are estimated

Table 6-2 8270 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
RI-MW-3 (2-4')	Bis(2-ethylhexl)phthalate Butyl benzl phthalate Di-n-octyl phthalate	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-5 Herbicides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
RI-MW-3 (2-4')	Sb, Ba, Mn, and Se	J- detects UJ non-detects	MS/MSD rec < QC limit	Data are biased low
RI-MW-3 (2-4')	Pb and Zn	J+ detects	MS rec > QC limit	Data are biased high`
RI-MW-3 (2-4')	Zn and Ca	J detects	% D for lab dups > 35 %	Data are estimated
RI-MW-3 (2-4')	Ca, Cr, Fe, and Zn	J detects	% D for Serial Dil > 15 %	Data are estimated

Table 6-8 TCN and Cr+6

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo NY 14213

Generated 10/31/2024 2:13 PM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-224373-1

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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Authorized for release by
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
716 504-9874

Job Narrative
480-224373-1

Receipt
The sample was received on 10/15/2024 4:35 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.2º C.

GC/MS VOA
Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-728699 and analytical batch 480-728670 were outside control limits for one or more analytes. See QC Sample Results for detail.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-728699 and analytical batch 480-728670 was outside control limits.

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

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

LCMS
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 analytes associated with this IDA are within spec, data is reported. The following sample is impacted: R1 MW-3 (2-4') (480-224373-1).

Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-631763 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 analytes associated with this IDA are within spec, data is reported.

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit in the opening CCB for the following sample: R1 MW-3 (2-4') (480-224373-1). 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.

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

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-729538 and analytical batch 480-729607 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224373-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224373-1	R1 MW-3 (2-4')	Solid	10/15/24 15:30	10/15/24 16:35

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: R0517.D

Analysis Method: 8260C | Date Collected: 10/15/2024 15:30

Sample wt/vol: 5.07(g) | Date Analyzed: 10/17/2024 15:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.5 % Solids: 91.5 | Level: (low/med) Low

Analysis Batch No.: 728670 | Units: ug/Kg

Preparation Batch No.: 728699 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.4	U vs	5.4	0.39	
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U F1 F2 vs	5.4	0.87	UJ
79-00-5	1,1,2-Trichloroethane	5.4	U F1 vs	5.4	0.70	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	5.4	1.2	
75-34-3	1,1-Dichloroethane	5.4	U vs	5.4	0.66	
75-35-4	1,1-Dichloroethene	5.4	U vs	5.4	0.66	
120-82-1	1,2,4-Trichlorobenzene	5.4	U F1 vs	5.4	0.33	UJ
96-12-8	1,2-Dibromo-3-Chloropropane	5.4	U F1 vs	5.4	2.7	UJ
95-50-1	1,2-Dichlorobenzene	5.4	U vs	5.4	0.42	
107-06-2	1,2-Dichloroethane	5.4	U vs	5.4	0.27	
78-87-5	1,2-Dichloropropane	5.4	U vs	5.4	2.7	
541-73-1	1,3-Dichlorobenzene	5.4	U F1 vs	5.4	0.28	
106-46-7	1,4-Dichlorobenzene	5.4	U F1 vs	5.4	0.75	
78-93-3	2-Butanone (MEK)	6.4	J F1 F2 vs	27	2.0	UJ
591-78-6	2-Hexanone	27	U vs	27	2.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.8	
67-64-1	Acetone	27	U vs	27	4.5	
71-43-2	Benzene	5.4	U vs	5.4	0.26	
75-27-4	Bromodichloromethane	5.4	U vs	5.4	0.72	
75-25-2	Bromoform	5.4	U vs	5.4	2.7	
74-83-9	Bromomethane	5.4	U vs	5.4	0.49	
75-15-0	Carbon disulfide	5.4	U vs	5.4	2.7	
56-23-5	Carbon tetrachloride	5.4	U vs	5.4	0.52	
108-90-7	Chlorobenzene	5.4	U vs	5.4	0.71	
124-48-1	Dibromochloromethane	5.4	U vs	5.4	0.69	
75-00-3	Chloroethane	5.4	U vs	5.4	1.2	
67-66-3	Chloroform	0.47	J vs	5.4	0.33	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: R0517.D

Analysis Method: 8260C | Date Collected: 10/15/2024 15:30

Sample wt/vol: 5.07(g) | Date Analyzed: 10/17/2024 15:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.5 % Solids: 91.5 | Level: (low/med) Low

Analysis Batch No.: 728670 | Units: ug/Kg

Preparation Batch No.: 728699 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	5.4	U vs	5.4	0.33
156-59-2	cis-1,2-Dichloroethene	5.4	U vs	5.4	0.69
10061-01-5	cis-1,3-Dichloropropene	5.4	U vs	5.4	0.78
110-82-7	Cyclohexane	5.4	U vs	5.4	0.75
75-71-8	Dichlorodifluoromethane	5.4	U vs	5.4	0.45
100-41-4	Ethylbenzene	0.50	J vs	5.4	0.37
106-93-4	1,2-Dibromoethane	5.4	U F1 vs	5.4	0.69
98-82-8	Isopropylbenzene	5.4	U vs	5.4	0.81
79-20-9	Methyl acetate	27	U F2 vs	27	3.3
1634-04-4	Methyl tert-butyl ether	5.4	U vs	5.4	0.53
108-87-2	Methylcyclohexane	5.4	U vs	5.4	0.82
75-09-2	Methylene Chloride	5.4	U vs	5.4	2.5
100-42-5	Styrene	5.4	U F1 vs	5.4	0.27
127-18-4	Tetrachloroethene	5.4	U vs	5.4	0.72
108-88-3	Toluene	1.4	J vs	5.4	0.41
156-60-5	trans-1,2-Dichloroethene	5.4	U vs	5.4	0.56
10061-02-6	trans-1,3-Dichloropropene	5.4	U vs	5.4	2.4
79-01-6	Trichloroethene	5.4	U F1 vs	5.4	1.2
75-69-4	Trichlorofluoromethane	5.4	U vs	5.4	0.51
75-01-4	Vinyl chloride	5.4	U vs	5.4	0.66
1330-20-7	Xylenes, Total	3.1	J vs	11	0.91

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		64-126
460-00-4	4-Bromofluorobenzene (Surr)	98		72-126
1868-53-7	Dibromofluoromethane (Surr)	107		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: R0517.D

Analysis Method: 8260C | Date Collected: 10/15/2024 15:30

Sample wt/vol: 5.07(g) | Date Analyzed: 10/17/2024 15:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.5 % Solids: 91.5 | Level: (low/med) Low

Analysis Batch No.: 728670 | Units: ug/Kg

Preparation Batch No.: 728699 | Instrument ID: HP5977R

Number TICs Found: 2 | TIC Result Total: 3.11

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
179601-23-1	m-Xylene & p-Xylene	8.48	2.3	J	97%
95-47-6	o-Xylene	8.90	0.81	J	97%

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: V3169562.d

Analysis Method: 8270D | Date Collected: 10/15/2024 15:30

Extract. Method: 3550C | Date Extracted: 10/28/2024 17:43

Sample wt/vol: 5.23(g) | Date Analyzed: 10/29/2024 11:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.5 % Solids: 91.5 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730201 | Units: ug/Kg

Preparation Batch No.: 730173 | Instrument ID: HP5973V

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	3100	U	3100	1700
95-95-4	2,4,5-Trichlorophenol	5300	U	5300	1400
88-06-2	2,4,6-Trichlorophenol	5300	U	5300	1100
120-83-2	2,4-Dichlorophenol	5300	U	5300	560
105-67-9	2,4-Dimethylphenol	5300	U	5300	1300
51-28-5	2,4-Dinitrophenol	52000	U	52000	25000
121-14-2	2,4-Dinitrotoluene	5300	U	5300	1100
606-20-2	2,6-Dinitrotoluene	5300	U	5300	630
91-58-7	2-Chloronaphthalene	5300	U	5300	880
95-57-8	2-Chlorophenol	10000	U	10000	970
91-57-6	2-Methylnaphthalene	5300	U	5300	1100
95-48-7	2-Methylphenol	5300	U	5300	630
88-74-4	2-Nitroaniline	10000	U	10000	780
88-75-5	2-Nitrophenol	5300	U	5300	1500
91-94-1	3,3'-Dichlorobenzidine	10000	U	10000	6300
99-09-2	3-Nitroaniline	10000	U	10000	1500
534-52-1	4,6-Dinitro-2-methylphenol	10000	U	10000	5300
101-55-3	4-Bromophenyl phenyl ether	5300	U	5300	750
59-50-7	4-Chloro-3-methylphenol	5300	U	5300	1300
106-47-8	4-Chloroaniline	5300	U	5300	1300
7005-72-3	4-Chlorophenyl phenyl ether	5300	U	5300	660
106-44-5	4-Methylphenol	10000	U	10000	630
100-01-6	4-Nitroaniline	10000	U	10000	2800
100-02-7	4-Nitrophenol	10000	U	10000	3700
83-32-9	Acenaphthene	5300	U	5300	780
208-96-8	Acenaphthylene	5300	U	5300	690
98-86-2	Acetophenone	5300	U	5300	720
120-12-7	Anthracene	5300	U	5300	1300
1912-24-9	Atrazine	5300	U	5300	1900
100-52-7	Benzaldehyde	5300	U	5300	4200
56-55-3	Benzo[a]anthracene	5300	U	5300	530

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: V3169562.d

Analysis Method: 8270D | Date Collected: 10/15/2024 15:30

Extract. Method: 3550C | Date Extracted: 10/28/2024 17:43

Sample wt/vol: 5.23(g) | Date Analyzed: 10/29/2024 11:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.5 % Solids: 91.5 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730201 | Units: ug/Kg

Preparation Batch No.: 730173 | Instrument ID: HP5973V

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	5300	U	5300	780	
205-99-2	Benzo[b]fluoranthene	5300	U	5300	850	
191-24-2	Benzo[g,h,i]perylene	5300	U	5300	560	
207-08-9	Benzo[k]fluoranthene	5300	U	5300	690	
92-52-4	Biphenyl	5300	U	5300	780	
108-60-1	bis (2-chloroisopropyl) ether	5300	U	5300	1100	
111-91-1	Bis(2-chloroethoxy)methane	5300	U	5300	1100	
111-44-4	Bis(2-chloroethyl)ether	5300	U	5300	690	
117-81-7	Bis(2-ethylhexyl) phthalate	5300	U	5300	1800	UJ
85-68-7	Butyl benzyl phthalate	5300	U	5300	880	UJ
105-60-2	Caprolactam	5300	U	5300	1600	
86-74-8	Carbazole	5300	U	5300	630	
218-01-9	Chrysene	5300	U	5300	1200	
53-70-3	Dibenz(a,h)anthracene	5300	U	5300	940	
132-64-9	Dibenzofuran	5300	U	5300	630	
84-66-2	Diethyl phthalate	5300	U	5300	690	
131-11-3	Dimethyl phthalate	5300	U	5300	630	
84-74-2	Di-n-butyl phthalate	5300	U	5300	910	
117-84-0	Di-n-octyl phthalate	5300	U	5300	630	UJ
206-44-0	Fluoranthene	5300	U	5300	560	
86-73-7	Fluorene	5300	U	5300	630	
118-74-1	Hexachlorobenzene	5300	U	5300	720	
87-68-3	Hexachlorobutadiene	5300	U	5300	780	
77-47-4	Hexachlorocyclopentadiene	5300	U	5300	720	
67-72-1	Hexachloroethane	5300	U	5300	690	
193-39-5	Indeno[1,2,3-cd]pyrene	5300	U	5300	660	
78-59-1	Isophorone	5300	U	5300	1100	
91-20-3	Naphthalene	5300	U	5300	690	
98-95-3	Nitrobenzene	5300	U	5300	600	
621-64-7	N-Nitrosodi-n-propylamine	5300	U	5300	910	
86-30-6	N-Nitrosodiphenylamine	5300	U	5300	4300	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: V3169562.d

Analysis Method: 8270D | Date Collected: 10/15/2024 15:30

Extract. Method: 3550C | Date Extracted: 10/28/2024 17:43

Sample wt/vol: 5.23(g) | Date Analyzed: 10/29/2024 11:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.5 % Solids: 91.5 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730201 | Units: ug/Kg

Preparation Batch No.: 730173 | Instrument ID: HP5973V

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	10000	U	10000	5300
85-01-8	Phenanthrene	5300	U	5300	780
108-95-2	Phenol	5300	U	5300	820
129-00-0	Pyrene	5300	U	5300	630

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	64		26-143
321-60-8	2-Fluorobiphenyl (Surr)	80		50-121
367-12-4	2-Fluorophenol (Surr)	73		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	73		40-121
4165-62-2	Phenol-d5 (Surr)	74		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	84		46-143

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

No data validation qualifiers were added

MKP 12/9/2024

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: 25_84-344.D

Analysis Method: 8081B | Date Collected: 10/15/2024 15:30

Extraction Method: 3550C | Date Extracted: 10/28/2024 18:02

Sample wt/vol: 5.21(g) | Date Analyzed: 10/29/2024 16:19

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 8.5 % Solids: 91.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730189 | Units: ug/Kg

Preparation Batch No.: 730175 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	210	U	210	41
72-55-9	4,4'-DDE	210	U	210	44
50-29-3	4,4'-DDT	210	U	210	49
309-00-2	Aldrin	210	U	210	52
319-84-6	alpha-BHC	210	U	210	38
319-85-7	beta-BHC	210	U	210	38
5103-71-9	Chlordane (.alpha.)	210	U	210	100
319-86-8	delta-BHC	210	U	210	39
60-57-1	Dieldrin	210	U	210	50
959-98-8	Endosulfan I	210	U	210	40
33213-65-9	Endosulfan II	210	U	210	38
1031-07-8	Endosulfan sulfate	210	U	210	39
72-20-8	Endrin	210	U	210	42
76-44-8	Heptachlor	210	U	210	45
58-89-9	Lindane	210	U	210	39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	0	S1-	45-120
877-09-8	Tetrachloro-m-xylene	114		30-124

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

No data validation qualifiers were added

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FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: 60000836.D

Analysis Method: 8082A | Date Collected: 10/15/2024 15:30

Extraction Method: 3550C | Date Extracted: 10/21/2024 17:40

Sample wt/vol: 2.22(g) | Date Analyzed: 10/22/2024 18:38

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 8.5 % Solids: 91.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729232 | Units: mg/Kg

Preparation Batch No.: 729216 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.25	U	0.25	0.048
11104-28-2	PCB-1221	0.25	U	0.25	0.048
11141-16-5	PCB-1232	0.25	U	0.25	0.048
53469-21-9	PCB-1242	0.25	U	0.25	0.048
12672-29-6	PCB-1248	0.25	U	0.25	0.048
11097-69-1	PCB-1254	0.25	U	0.25	0.12
11096-82-5	PCB-1260	0.25	U	0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	120		60-154
2051-24-3	DCB Decachlorobiphenyl	114		65-174

Method 8151A

Herbicides (GC) by Method 8151A

No data validation qualifiers were added

MKP 12/9/2024

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: 2024-10-30 13-00-42-04-00-04.D

Analysis Method: 8151A | Date Collected: 10/15/2024 15:30

Extraction Method: 8151A | Date Extracted: 10/28/2024 18:12

Sample wt/vol: 5.23(g) | Date Analyzed: 10/30/2024 13:00

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 8.5 % Solids: 91.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730374 | Units: ug/Kg

Preparation Batch No.: 730177 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	100	U	100	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	71		28-129

1633

Per- and Polyfluoroalkyl Substances by LC/MS/MS

No data validation qualifiers were added

MKP 12/9/2024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: 2024_10_21solidinj09.d

Analysis Method: Draft-3 1633 | Date Collected: 10/15/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 10/21/2024 10:05

Sample wt/vol: 1.58(g) | Date Analyzed: 10/22/2024 01:22

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 8.5 % Solids: 91.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 631763 | Units: ug/Kg

Preparation Batch No.: 631678 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.19	J	0.69	0.17
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.086
307-24-4	Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.043
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.043
335-67-1	Perfluorooctanoic acid (PFOA)	0.17	U	0.17	0.043
375-95-1	Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.043
335-76-2	Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.043
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.043
307-55-1	Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.043
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.043
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.043
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.043
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.043
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.043
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.043
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.11	J	0.17	0.043
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.043
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.043
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.69	U	0.69	0.17
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.69	U	0.69	0.17
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.69	U	0.69	0.17
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.043
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.043
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.043
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.043

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: 2024_10_21solidinj09.d

Analysis Method: Draft-3 1633 | Date Collected: 10/15/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 10/21/2024 10:05

Sample wt/vol: 1.58(g) | Date Analyzed: 10/22/2024 01:22

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 8.5 % Solids: 91.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 631763 | Units: ug/Kg

Preparation Batch No.: 631678 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.043
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.43
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.43
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.69	U	0.69	0.17
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.69	U	0.69	0.17
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.086
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.086
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.69	U	0.69	0.17
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.69	U	0.69	0.17
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.086
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.86	U	0.86	0.22
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.3	U	4.3	1.1
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.3	U	4.3	1.1
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.043
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.086

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224373-1

SDG No.:

Client Sample ID: R1 MW-3 (2-4') | Lab Sample ID: 480-224373-1

Matrix: Solid | Lab File ID: 2024_10_21solidinj09.d

Analysis Method: Draft-3 1633 | Date Collected: 10/15/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 10/21/2024 10:05

Sample wt/vol: 1.58(g) | Date Analyzed: 10/22/2024 01:22

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 8.5 % Solids: 91.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 631763 | Units: ug/Kg

Preparation Batch No.: 631678 | Instrument ID: LCMS04

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	85.0		20-150
STL01893	13C5 PFPeA	74.7		20-150
STL02577	13C5 PFHxA	79.9		20-150
STL01892	13C4 PFHpA	79.8		20-150
STL01052	13C8 PFOA	75.8		20-150
STL02578	13C9 PFNA	87.5		20-150
STL02579	13C6 PFDA	88.3		20-150
STL02580	13C7 PFUnA	80.8		20-150
STL02116	13C2 PFTeDA	52.0		20-150
STL02337	13C3 PFBS	92.4		20-150
STL02581	13C3 PFHxS	78.2		20-150
STL01054	13C8 PFOS	84.7		20-150
STL01056	13C8 PFOSA	79.7		20-150
STL02118	d3-NMeFOSAA	83.3		20-150
STL02117	d5-NEtFOSAA	87.3		20-150
STL02395	M2-4:2 FTS	124		20-150
STL02279	M2-6:2 FTS	127		20-150
STL02280	M2-8:2 FTS	131		20-150
STL02255	13C3 HFPO-DA	80.2		20-150
STL02277	d7-N-MeFOSE-M	68.0		20-150
STL02278	d9-N-EtFOSE-M	64.0		20-150
STL02704	d5-NEtPFOSA	67.8		20-150
STL02705	D3-NMeFOSA	66.6		20-150
STL02703	13C2-PFDoDA	77.1		20-150

METALS

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224373-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
R1 MW-3 (2-4')	480-224373-1

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: R1 MW-3 (2-4') Lab Sample ID: 480-224373-1

Lab Name: Eurofins Buffalo Job No.: 480-224373-1

SDG ID.:

Matrix: Solid Date Sampled: 10/15/2024 15:30

Reporting Basis: DRY Date Received: 10/15/2024 16:35

Preparation Batch Number: 728533 Instrument ID: ICAP3

% Solids: 91.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7429-90-5	Aluminum	8190	10.9	9.4	mg/Kg		F2	1	6010C	
7440-36-0	Antimony	16.4	16.4	0.58	mg/Kg	U	F1	1	6010C	UJ
7440-38-2	Arsenic	4.9	2.2	0.96	mg/Kg			1	6010C	
7440-39-3	Barium	161	0.55	0.15	mg/Kg		F1 F2	1	6010C	J-
7440-41-7	Beryllium	0.39	0.22	0.044	mg/Kg			1	6010C	
7440-43-9	Cadmium	0.79	0.22	0.077	mg/Kg			1	6010C	
7440-70-2	Calcium	68800	54.7	29.5	mg/Kg		F2	1	6010C	J
7440-47-3	Chromium	11.4	0.55	0.39	mg/Kg			1	6010C	J
7440-48-4	Cobalt	4.6	0.55	0.11	mg/Kg			1	6010C	
7440-50-8	Copper	30.6	1.1	0.62	mg/Kg			1	6010C	
7439-89-6	Iron	11600	10.9	9.3	mg/Kg			1	6010C	J
7439-92-1	Lead	144	1.1	0.50	mg/Kg		F1 F2	1	6010C	J+
7439-95-4	Magnesium	23200	21.9	9.3	mg/Kg		F2	1	6010C	
7439-96-5	Manganese	405	1.1	0.31	mg/Kg		F1	1	6010C	J-
7440-02-0	Nickel	13.3	5.5	0.27	mg/Kg			1	6010C	
7440-09-7	Potassium	1890	32.8	26.5	mg/Kg			1	6010C	
7782-49-2	Selenium	4.4	4.4	0.88	mg/Kg	U	F1	1	6010C	UJ
7440-22-4	Silver	0.66	0.66	0.22	mg/Kg	U		1	6010C	
7440-23-5	Sodium	467	153	67.1	mg/Kg			1	6010C	
7440-28-0	Thallium	6.6	6.6	0.83	mg/Kg	U		1	6010C	
7440-62-2	Vanadium	17.4	0.55	0.14	mg/Kg			1	6010C	
7440-66-6	Zinc	229	2.2	1.1	mg/Kg		F1 F2	1	6010C	J
7439-97-6	Mercury	0.087	0.022	0.0051	mg/Kg			1	7471B	

MKP 12/9/2024

GENERAL CHEMISTRY

No data validation qualifiers were added

MKP 12/9/2024

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224373-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
R1 MW-3 (2-4')	480-224373-1

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job Number: 480-224373-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
R1 MW-3 (2-4')	480-224373-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: R1 MW-3 (2-4')
Lab Sample ID: 480-224373-1
Lab Name: Eurofins Buffalo
Job No.: 480-224373-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/15/2024 15:30
Reporting Basis: DRY
Date Received: 10/15/2024 16:35
Preparation Batch Number: 729538
Instrument ID: SEAL 1
% Solids: 91.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.1	1.1	0.52	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: R1 MW-3 (2-4') Lab Sample ID: 480-224373-1

Lab Name: Eurofins Edison Job No.: 480-224373-1

SDG ID.:

Matrix: Solid Date Sampled: 10/15/2024 15:30

Reporting Basis: DRY Date Received: 10/15/2024 16:35

Preparation Batch Number: 1003494 Instrument ID: WetHexSpec

% Solids: 91.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.1	2.1	0.91	mg/Kg	U		1	7196A

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Syracuse

#225

Client Information

Client Contact: Jacob Cox	Sampler: Jacob Cox	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-199807-41205.1
Company: Brydges Engineering in Environment & Energy DPC	Phone: 716 418 0192	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 1 of 3
Address: 960 Busti Ave Suite B-150	PWSID:			Job #:
City: Buffalo	Due Date Requested:			
State, Zip: NY, 14213	TAT Requested (days): Standard			
Phone: 716 4180192	Compliance Project: Δ Yes Δ No			
Email: jcox@be3corp.com	PO #: Purchase Order not required			
Project Name: The Nest Site Analysis - Soil	WO #:			
Site: THE NEST	Project #: 48028073			
	SSOW#:			

Analysis Requested

Preservation Codes: N - None

Other:

Special Instructions/Note:

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 - TCL VOCs + TICs	6010C, 7471B, 8081B, 8082A, 8151A, 8270D	1633_Final - 1633 Standard List 40	Total Number of containers
			Preservation Code:				N	N	N	
RI MW-3 (2-4')	10/15	15 30	G	Solid			X	X	X	
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

480-224373 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)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/15/24 @4:35PM	BE3	LC	10/15/24 16:35	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 1.6.2 ICE IR# 5C no

Ver: 05/06/2024

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	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-89886.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Beninati@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 #: 480-224373-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/28/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: The Nest Site Analysis	Project #: 48028073			
Site:	SSOW#:			Other

PFAS -90-90

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/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633_Final/1633_Shake 1633 Standard List 40	Total Number of containers
			Preservation Code:					
R1 MW-3 2-4 (480-224373-1)	10/15/24	15:30 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
1	[signature]	10-16-24 1600		JESSICA RIGDON	10-17-24 1000	ET NC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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 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:	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-89900.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-224373-1
Address: 777 New Durham Road,	Due Date Requested: 10/28/2024			Preservation Codes:
City: Edison	TAT Requested (days):			
State, Zip: NJ 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: The Nest Site Analysis	Project #: 48028073			
Site:	SSOW#:			Other:

Analysis Requested

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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
R1 MW-3 (2-4') (480-224373-1)	10/15/24	15:30 Eastern	G	Solid			X	1	

Page 3265 of 3267

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: Fedex

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10-17-24 1600		[signature]	10/18/24 10 ET	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:

IR9 12-14 16-18

Ver: 05/06/2024

Appendix B

Laboratory QC Documentation

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224373-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: R0522.D

Lab ID: 480-224373-1 MS Client ID: R1 MW-3 (2-4') MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	54.1	5.4 U	54.3	100	77-121	vs
1,1,2,2-Tetrachloroethane	54.1	5.4 U	33.6	62	80-120	F1 vs
1,1,2-Trichloroethane	54.1	5.4 U	49.2	91	78-122	vs
1,1,2-Trichloro-1,2,2-trifluoroethane	54.1	5.4 U	48.8	90	60-140	vs
1,1-Dichloroethane	54.1	5.4 U	57.7	107	73-126	vs
1,1-Dichloroethene	54.1	5.4 U	54.4	100	59-125	vs
1,2,4-Trichlorobenzene	54.1	5.4 U	28.1	52	64-120	F1 vs
1,2-Dibromo-3-Chloropropane	54.1	5.4 U	40.3	75	63-124	vs
1,2-Dichlorobenzene	54.1	5.4 U	44.7	83	75-120	vs
1,2-Dichloroethane	54.1	5.4 U	53.6	99	77-122	vs
1,2-Dichloropropane	54.1	5.4 U	56.6	105	75-124	vs
1,3-Dichlorobenzene	54.1	5.4 U	46.4	86	74-120	vs
1,4-Dichlorobenzene	54.1	5.4 U	45.1	83	73-120	vs
2-Butanone (MEK)	271	6.4 J	234	84	70-134	vs
2-Hexanone	271	27 U	214	79	59-130	vs
4-Methyl-2-pentanone (MIBK)	271	27 U	223	83	65-133	vs
Acetone	271	27 U	227	84	61-137	vs
Benzene	54.1	5.4 U	58.7	108	79-127	vs
Bromodichloromethane	54.1	5.4 U	55.9	103	80-122	vs
Bromoform	54.1	5.4 U	43.9	81	68-126	vs
Bromomethane	54.1	5.4 U	59.4	110	37-149	vs
Carbon disulfide	54.1	5.4 U	51.5	95	64-131	vs
Carbon tetrachloride	54.1	5.4 U	51.7	96	75-135	vs
Chlorobenzene	54.1	5.4 U	51.3	95	76-124	vs
Dibromochloromethane	54.1	5.4 U	51.2	95	76-125	vs
Chloroethane	54.1	5.4 U	60.6	112	69-135	vs
Chloroform	54.1	0.47 J	56.7	104	80-120	vs
Chloromethane	54.1	5.4 U	56.8	105	63-127	vs
cis-1,2-Dichloroethene	54.1	5.4 U	56.7	105	80-120	vs
cis-1,3-Dichloropropene	54.1	5.4 U	52.6	97	80-120	vs
Cyclohexane	54.1	5.4 U	45.8	85	65-120	vs
Dichlorodifluoromethane	54.1	5.4 U	48.5	90	57-142	vs
Ethylbenzene	54.1	0.50 J	50.6	92	80-120	vs
1,2-Dibromoethane	54.1	5.4 U	46.8	87	78-120	vs
Isopropylbenzene	54.1	5.4 U	52.8	98	72-120	vs
Methyl acetate	108	27 U	81.4	75	55-136	vs
Methyl tert-butyl ether	54.1	5.4 U	51.8	96	63-125	vs
Methylcyclohexane	54.1	5.4 U	38.7	71	60-140	vs
Methylene Chloride	54.1	5.4 U	63.5	117	61-127	vs
Styrene	54.1	5.4 U	49.3	91	80-120	vs
Tetrachloroethene	54.1	5.4 U	49.2	91	74-122	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224373-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: R0522.D

Lab ID: 480-224373-1 MS Client ID: R1 MW-3 (2-4') MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Toluene	54.1	1.4 J	53.7	97	74-128	vs
trans-1,2-Dichloroethene	54.1	5.4 U	56.2	104	78-126	vs
trans-1,3-Dichloropropene	54.1	5.4 U	49.9	92	73-123	vs
Trichloroethene	54.1	5.4 U	70.4	130	77-129	F1 vs
Trichlorofluoromethane	54.1	5.4 U	54.2	100	65-146	vs
Vinyl chloride	54.1	5.4 U	55.2	102	61-133	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224373-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: R0523.D

Lab ID: 480-224373-1 MSD Client ID: R1 MW-3 (2-4') MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	53.9	45.6	85	17	30	77-121	vs
1,1,2,2-Tetrachloroethane	53.9	21.1	39	46	30	80-120	F1 F2 vs
1,1,2-Trichloroethane	53.9	40.2	75	20	30	78-122	F1 vs
1,1,2-Trichloro-1,2,2-trifluoroethane	53.9	42.8	79	13	30	60-140	vs
1,1-Dichloroethane	53.9	49.1	91	16	30	73-126	vs
1,1-Dichloroethene	53.9	45.8	85	17	30	59-125	vs
1,2,4-Trichlorobenzene	53.9	30.9	57	10	30	64-120	F1 vs
1,2-Dibromo-3-Chloropropane	53.9	32.9	61	20	30	63-124	F1 vs
1,2-Dichlorobenzene	53.9	40.8	76	9	30	75-120	vs
1,2-Dichloroethane	53.9	43.8	81	20	30	77-122	vs
1,2-Dichloropropane	53.9	46.8	87	19	30	75-124	vs
1,3-Dichlorobenzene	53.9	39.6	73	16	30	74-120	F1 vs
1,4-Dichlorobenzene	53.9	39.0	72	15	30	73-120	F1 vs
2-Butanone (MEK)	270	170	61	31	30	70-134	F1 F2 vs
2-Hexanone	270	169	63	24	30	59-130	vs
4-Methyl-2-pentanone (MIBK)	270	183	68	20	30	65-133	vs
Acetone	270	185	69	20	30	61-137	vs
Benzene	53.9	47.7	89	21	30	79-127	vs
Bromodichloromethane	53.9	46.5	86	18	30	80-122	vs
Bromoform	53.9	38.1	71	14	30	68-126	vs
Bromomethane	53.9	50.1	93	17	30	37-149	vs
Carbon disulfide	53.9	42.9	80	18	30	64-131	vs
Carbon tetrachloride	53.9	43.9	81	16	30	75-135	vs
Chlorobenzene	53.9	45.0	83	13	30	76-124	vs
Dibromochloromethane	53.9	43.6	81	16	30	76-125	vs
Chloroethane	53.9	51.7	96	16	30	69-135	vs
Chloroform	53.9	47.6	87	18	30	80-120	vs
Chloromethane	53.9	47.6	88	18	30	63-127	vs
cis-1,2-Dichloroethene	53.9	49.4	92	14	30	80-120	vs
cis-1,3-Dichloropropene	53.9	43.8	81	18	30	80-120	vs
Cyclohexane	53.9	39.8	74	14	30	65-120	vs
Dichlorodifluoromethane	53.9	42.8	79	13	30	57-142	vs
Ethylbenzene	53.9	44.2	81	13	30	80-120	vs
1,2-Dibromoethane	53.9	39.0	72	18	30	78-120	F1 vs
Isopropylbenzene	53.9	44.0	82	18	30	72-120	vs
Methyl acetate	108	59.6	55	31	30	55-136	F2 vs
Methyl tert-butyl ether	53.9	44.1	82	16	30	63-125	vs
Methylcyclohexane	53.9	35.5	66	8	30	60-140	vs
Methylene Chloride	53.9	50.5	94	23	30	61-127	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224373-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: R0523.D

Lab ID: 480-224373-1 MSD Client ID: R1 MW-3 (2-4') MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	53.9	42.4	79	15	30	80-120	F1 vs
Tetrachloroethene	53.9	41.4	77	17	30	74-122	vs
Toluene	53.9	44.8	81	18	30	74-128	vs
trans-1,2-Dichloroethene	53.9	47.4	88	17	30	78-126	vs
trans-1,3-Dichloropropene	53.9	40.1	74	22	30	73-123	vs
Trichloroethene	53.9	65.3	121	8	30	77-129	vs
Trichlorofluoromethane	53.9	45.5	84	17	30	65-146	vs
Vinyl chloride	53.9	45.2	84	20	30	61-133	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Lab Sample ID: CCVIS 480-730201/3 | Calibration Date: 10/29/2024 09:46

Instrument ID: HP5973V | Calib Start Date: 10/10/2024 16:59

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 20:04

Lab File ID: V3169558.d | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.570	1.611	0.0100	41000	40000	2.6	20.0
2-Chloronaphthalene	Ave	1.164	1.147	0.8000	39400	40000	-1.4	20.0
2-Nitroaniline	Ave	0.4642	0.5164	0.0100	44500	40000	11.3	20.0
Dimethyl phthalate	Ave	1.323	1.357	0.0100	41000	40000	2.5	20.0
1,3-Dinitrobenzene	Ave	0.0971	0.1001	0.0100	41200	40000	3.0	20.0
2,6-Dinitrotoluene	Ave	0.2897	0.3003	0.2000	41500	40000	3.7	20.0
Acenaphthylene	Ave	1.781	1.908	0.9000	42800	40000	7.1	20.0
3-Nitroaniline	Lin2		0.3791	0.0100	41700	40000	4.3	20.0
Acenaphthene	Ave	1.249	1.269	0.9000	40700	40000	1.6	20.0
2,4-Dinitrophenol	Lin2		0.1475	0.0100	80400	80000	0.6	20.0
Dibenzofuran	Ave	1.610	1.643	0.8000	40800	40000	2.0	20.0
4-Nitrophenol	Lin2		0.2158	0.0100	82600	80000	3.2	20.0
2,4-Dinitrotoluene	Ave	0.3844	0.4202	0.2000	43700	40000	9.3	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2567	0.2485	0.0100	38700	40000	-3.2	20.0
Diethyl phthalate	Ave	1.301	1.413	0.0100	43500	40000	8.7	20.0
Hexadecane	Ave	1.131	1.204	0.0100	42600	40000	6.5	20.0
Fluorene	Ave	1.294	1.313	0.9000	40600	40000	1.5	20.0
4-Chlorophenyl phenyl ether	Ave	0.5850	0.5721	0.4000	39100	40000	-2.2	20.0
4-Nitroaniline	Ave	0.3342	0.3527	0.0100	42200	40000	5.5	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1377	0.0100	83800	80000	4.7	20.0
Diphenylamine	Ave	0.6362	0.6704	0.0100	36000	34200	5.4	20.0
N-Nitrosodiphenylamine	Ave	0.5440	0.5732	0.0100	42100	40000	5.4	20.0
1,2-Diphenylhydrazine	Lin2		1.858	0.0100	39800	40000	-0.6	20.0
trans-Azobenzene	Ave	1.104	1.140	0.0100	41300	40000	3.3	20.0
4-Bromophenyl phenyl ether	Ave	0.2007	0.1945	0.1000	38800	40000	-3.1	20.0
Hexachlorobenzene	Ave	0.2385	0.2074	0.1000	34800	40000	-13.0	20.0
Atrazine	Ave	0.3343	0.3472	0.0100	41500	40000	3.9	20.0
Pentachlorophenol	Lin2		0.1163	0.0500	77600	80000	-3.0	50.0
n-Octadecane	Ave	0.6788	0.7454	0.0100	43900	40000	9.8	20.0
Phenanthrene	Lin2		1.114	0.7000	40900	40000	2.3	20.0
Anthracene	Lin2		1.163	0.7000	41900	40000	4.7	20.0
Carbazole	Ave	1.009	1.034	0.0100	41000	40000	2.5	20.0
Di-n-butyl phthalate	Ave	1.290	1.498	0.0100	46500	40000	16.2	20.0
Fluoranthene	Lin2		1.163	0.6000	41400	40000	3.6	20.0
Benzidine	Lin2		1.128	0.0100	82500	80000	3.1	50.0
Pyrene	Ave	1.398	1.479	0.6000	42300	40000	5.9	20.0
Butyl benzyl phthalate	Ave	0.6648	0.8293	0.0100	49900	40000	24.8*	20.0
3,3'-Dichlorobenzidine	Ave	0.6252	0.6251	0.0100	80000	80000	-0.0	50.0
Benzo[a]anthracene	Lin2		1.311	0.8000	41000	40000	2.6	20.0
Chrysene	Lin2		1.263	0.7000	41700	40000	4.3	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8992	1.201	0.0100	53400	40000	33.5*	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Lab Sample ID: CCVIS 480-730201/3 | Calibration Date: 10/29/2024 09:46

Instrument ID: HP5973V | Calib Start Date: 10/10/2024 16:59

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 20:04

Lab File ID: V3169558.d | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Ave	1.525	2.173	0.0100	57000	40000	42.5*	20.0
Benzo[b]fluoranthene	Lin2		1.266	0.7000	44000	40000	10.0	20.0
Benzo[k]fluoranthene	Ave	1.329	1.243	0.7000	37400	40000	-6.5	20.0
Benzo[a]pyrene	Ave	1.079	1.126	0.7000	41700	40000	4.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.446	1.434	0.5000	39700	40000	-0.9	20.0
Dibenz(a,h)anthracene	Lin2		1.132	0.4000	40800	40000	2.1	20.0
Benzo[g,h,i]perylene	Ave	1.165	1.171	0.5000	40200	40000	0.5	20.0
2-Fluorophenol (Surr)	Lin2		1.577	0.0100	40700	40000	1.7	20.0
Phenol-d5 (Surr)	Lin2		2.001	0.0100	40700	40000	1.8	20.0
Nitrobenzene-d5 (Surr)	Ave	0.4435	0.4759	0.0100	42900	40000	7.3	20.0
2-Fluorobiphenyl (Surr)	Ave	1.339	1.363	0.0100	40700	40000	1.8	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1132	0.1008	0.0100	35600	40000	-11.0	20.0
p-Terphenyl-d14 (Surr)	Ave	1.057	1.086	0.0100	41100	40000	2.7	20.0

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: R1 MW-3 (2-4') MS | Lab ID: 480-224373-1 MS

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 91.5

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10950		8190		1070	258	75-125	4	6010C
Antimony	63.67		16.4	U	105	61	75-125	F1	6010C
Arsenic	179.8		4.9		210	83	75-125		6010C
Barium	369.5		161		210	99	75-125		6010C
Beryllium	89.79		0.39		105	85	75-125		6010C
Cadmium	93.90		0.79		105	89	75-125		6010C
Calcium	95160		68800		5250	503	75-125	E 4	6010C
Chromium	97.93		11.4		105	82	75-125		6010C
Cobalt	105.2		4.6		105	96	75-125		6010C
Copper	125.8		30.6		105	91	75-125		6010C
Iron	12390		11600		1070	72	75-125	4	6010C
Lead	292.0		144		105	141	75-125	F1	6010C
Magnesium	34070		23200		5250	206	75-125	4	6010C
Manganese	479.9		405		105	72	75-125	F1	6010C
Nickel	114.8		13.3		105	97	75-125		6010C
Potassium	7580		1890		5250	108	75-125		6010C
Selenium	165.7		4.4	U	210	79	75-125		6010C
Silver	9.29		0.66	U	10.5	89	75-125		6010C
Sodium	5341		467		5250	93	75-125		6010C
Thallium	203.9		6.6	U	210	97	75-125		6010C
Vanadium	108.2		17.4		105	87	75-125		6010C
Zinc	325.2		229		105	91	75-125		6010C
Mercury	0.459		0.087		0.374	99	80-120		7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: R1 MW-3 (2-4') MSD | Lab ID: 480-224373-1 MSD

Lab Name: Eurofins Buffalo | Job No.: 480-224373-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 91.5

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	8896		1080	66	75-125	21	20	4 F2	6010C
Antimony	63.51		106	60	75-125	0	20	F1	6010C
Arsenic	169.1		212	77	75-125	6	20		6010C
Barium	299.5		212	65	75-125	21	20	F1 F2	6010C
Beryllium	84.66		106	79	75-125	6	20		6010C
Cadmium	88.41		106	83	75-125	6	20		6010C
Calcium	66280		5310	-47	75-125	36	20	4 F2	6010C
Chromium	90.85		106	75	75-125	8	20		6010C
Cobalt	97.42		106	87	75-125	8	20		6010C
Copper	114.7		106	79	75-125	9	20		6010C
Iron	10300		1080	-122	75-125	18	20	4	6010C
Lead	227.3		106	79	75-125	25	20	F2	6010C
Magnesium	23860		5310	12	75-125	35	20	4 F2	6010C
Manganese	455.4		106	48	75-125	5	20	F1	6010C
Nickel	108.3		106	89	75-125	6	20		6010C
Potassium	6569		5310	88	75-125	14	20		6010C
Selenium	156.0		212	73	75-125	6	20	F1	6010C
Silver	8.61		10.6	81	75-125	8	20		6010C
Sodium	4958		5310	85	75-125	7	20		6010C
Thallium	189.2		212	89	75-125	7	20		6010C
Vanadium	110.5		106	88	75-125	2	20		6010C
Zinc	579.7		106	330	75-125	56	20	F1 F2	6010C
Mercury	0.450		0.373	97	80-120	2	20		7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-224373-1

SDG No:

Lab Name: Eurofins Buffalo Job No: 480-224373-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	8190		8872		8.4		6010C
Antimony	16.4	U	82.1	U	NC		6010C
Arsenic	4.9		7.88	J	NC		6010C
Barium	161		178.5		11	V	6010C
Beryllium	0.39		0.439	J	NC		6010C
Cadmium	0.79		0.839	J	NC		6010C
Calcium	68800		80980		18	V	6010C
Chromium	11.4		13.16		16	V	6010C
Cobalt	4.6		4.72		2.1		6010C
Copper	30.6		29.97		2.1		6010C
Iron	11600		14370		24	V	6010C
Lead	144		145.6		1.2		6010C
Magnesium	23200		25300		8.9		6010C
Manganese	405		464.1		15	V	6010C
Nickel	13.3		13.77	J	3.4		6010C
Potassium	1890		2011		6.2		6010C
Selenium	4.4	U	21.9	U	NC		6010C
Silver	0.66	U	3.3	U	NC		6010C
Sodium	467		470.7	J	NC		6010C
Thallium	6.6	U	32.8	U	NC		6010C
Vanadium	17.4		19.37		11	V	6010C
Zinc	229		286.8		25	V	6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

The NEST Site
333 1st Street
Niagara Falls, NY 14303
BCP Site # C932183

SDG: J224492-1
1 soil sample

Prepared for:

BE3 Corp.
960 Busti Avenue
Suite 150-B
Buffalo, NY 14213
Attention: Jacob Cox

December 2024

EDU *Environmental Data Usability 10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
BE3 SDG J224492-1: The NEST Site – Niagara Falls, NY

The data associated with this Sample Delivery Group (SDG) J224492-1, analyzed by Eurofins Buffalo, Buffalo, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/9/2024

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	The NEST Site 333 1st Street Niagara Falls, NY 14303 BCP Site #: C932183
SAMPLING DATE:	October 17, 2024
SAMPLE TYPE:	1 soil sample
LABORATORY:	Eurofins Buffalo Buffalo, NY
SDG No.:	J224492-1

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 1 soil sample collected on October 17, 2024. This sample was analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), Pesticides, PCBs, Herbicides, PFASs, Metals, TCN, and Hexavalent Chromium (Cr+6).

All analyses were performed by Eurofins Buffalo, Buffalo, NY and analyzed as SDG J224492-1. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radionuclides		
Uranium	USEPA Method 908.0	Juner 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-8. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG J224492-1, one sample was analyzed and results were reported for 204 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have rejected/qualified and the corresponding QC reasons.

NOTE: 1) As noted by the laboratory, the soil samples were not collected following SW846 5035A protocol. This adds an element of uncertainty to the analytical results for volatile organic analytes (VOAs). Although not specifically indicated on the final data sheets with a "J" flag, the VOA analytical results should be considered estimated, but usable.

Table 6-1 8260 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
RI-MW-1 (2-4')	Chloromethane Dichlorodifluoromethane Trichlorofluoromethane	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-2 8270 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-5 Herbicides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-8 TCN and Cr+6

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo NY 14213

Generated 11/5/2024 3:26 PM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-224492-1

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.

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Job Narrative
480-224492-1

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 10/17/2024 4:10 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-728936 recovered above the upper control limit for Chloromethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: R1 MW-1 (2-4') (480-224492-1).

Method 8260C: The following sample was analyzed using medium level soil analysis to bring the concentration of target analytes within the calibration range: R1 MW-1 (2-4') (480-224492-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The method blank for analytical batch preparation batch 480-728938 and analytical batch 480-728936 contained Methylene Chloride below the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated sample(s) was not re-extracted and/or re-analyzed because the concentration of the common lab contaminant in the samples was similar to the concentration in the method blank. The following sample is impacted: R1 MW-1 (2-4') (480-224492-1).

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: R1 MW-1 (2-4') (480-224492-1). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-729241 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: R1 MW-1 (2-4') (480-224492-1).

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Atrazine. The laboratory control sample (LCS) associated with preparation batch 480-728928 and analytical batch 480-729241 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

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

Herbicides
Method 8151A: Insufficient sample volume was provided for the following sample for the analysis: R1 MW-1 (2-4') (480-224492-1).

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: R1 MW-1 (2-4') (480-224492-1).

Method 8081B: The following sample was diluted due to the nature of the sample matrix: R1 MW-1 (2-4') (480-224492-1). 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 480-728929 and analytical batch 480-729100 contained 4,4'-DDT, alpha-BHC, delta-BHC and Lindane 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
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 analytes associated with this IDA are within spec, data is reported. The following sample is impacted: R1 MW-1 (2-4') (480-224492-1).

Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-631763 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 analytes associated with this IDA are within spec, data is reported.

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit in the closing CCB for the following sample: R1 MW-1 (2-4') (480-224492-1). 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.

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.

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224492-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224492-1	R1 MW-1 (2-4')	Solid	10/17/24 10:00	10/17/24 16:10

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: S3135.d

Analysis Method: 8260C | Date Collected: 10/17/2024 10:00

Sample wt/vol: 4.858(g) | Date Analyzed: 10/19/2024 13:33

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 10(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: 22.9 % Solids: 77.1 | Level: (low/med) Medium

Analysis Batch No.: 728936 | Units: ug/Kg

Preparation Batch No.: 728938 | Instrument ID: HP5973S

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	150	U	150	41	
79-34-5	1,1,2,2-Tetrachloroethane	150	U	150	24	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	150	U	150	74	
79-00-5	1,1,2-Trichloroethane	150	U	150	31	
75-34-3	1,1-Dichloroethane	150	U	150	46	
75-35-4	1,1-Dichloroethene	150	U	150	51	
120-82-1	1,2,4-Trichlorobenzene	150	U	150	56	
96-12-8	1,2-Dibromo-3-Chloropropane	150	U	150	74	
95-50-1	1,2-Dichlorobenzene	150	U	150	38	
107-06-2	1,2-Dichloroethane	150	U	150	61	
78-87-5	1,2-Dichloropropane	150	U	150	24	
541-73-1	1,3-Dichlorobenzene	150	U	150	40	
106-46-7	1,4-Dichlorobenzene	150	U	150	21	
78-93-3	2-Butanone (MEK)	740	U	740	440	
591-78-6	2-Hexanone	740	U	740	300	
108-10-1	4-Methyl-2-pentanone (MIBK)	740	U	740	47	
67-64-1	Acetone	740	U	740	610	
71-43-2	Benzene	150	U	150	28	
75-25-2	Bromoform	150	U	150	74	
74-83-9	Bromomethane	150	U	150	33	
75-15-0	Carbon disulfide	150	U	150	67	
56-23-5	Carbon tetrachloride	150	U	150	38	
108-90-7	Chlorobenzene	150	U	150	20	
124-48-1	Dibromochloromethane	150	U	150	72	
75-00-3	Chloroethane	150	U	150	31	
67-66-3	Chloroform	150	U	150	100	
74-87-3	Chloromethane	150	U	150	35	UJ
156-59-2	cis-1,2-Dichloroethene	150	U	150	41	
110-82-7	Cyclohexane	150	U	150	33	
75-27-4	Bromodichloromethane	150	U	150	30	
75-71-8	Dichlorodifluoromethane	150	U	150	65	UJ
100-41-4	Ethylbenzene	150	U	150	43	

MKP 12/9/2024

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: S3135.d

Analysis Method: 8260C | Date Collected: 10/17/2024 10:00

Sample wt/vol: 4.858(g) | Date Analyzed: 10/19/2024 13:33

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 10(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: 22.9 % Solids: 77.1 | Level: (low/med) Medium

Analysis Batch No.: 728936 | Units: ug/Kg

Preparation Batch No.: 728938 | Instrument ID: HP5973S

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
106-93-4	1,2-Dibromoethane	150	U	150	26	
98-82-8	Isopropylbenzene	150	U	150	22	
79-20-9	Methyl acetate	410	J	740	71	
1634-04-4	Methyl tert-butyl ether	150	U	150	56	
108-87-2	Methylcyclohexane	150	U	150	69	
75-09-2	Methylene Chloride	150 UJ ~~73~~	J B	150	29	UJ
127-18-4	Tetrachloroethene	1800		150	20	
108-88-3	Toluene	60	J	150	40	
156-60-5	trans-1,2-Dichloroethene	150	U	150	35	
10061-02-6	trans-1,3-Dichloropropene	150	U	150	15	
79-01-6	Trichloroethene	1700		150	41	
75-69-4	Trichlorofluoromethane	150	U	150	70	UJ
75-01-4	Vinyl chloride	150	U	150	50	
1330-20-7	Xylenes, Total	300	U	300	82	
10061-01-5	cis-1,3-Dichloropropene	150	U	150	35	
100-42-5	Styrene	150	U	150	36	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		53-146
460-00-4	4-Bromofluorobenzene (Surr)	96		49-148
2037-26-5	Toluene-d8 (Surr)	97		50-149
1868-53-7	Dibromofluoromethane (Surr)	93		60-140

MKP 12/9/2024

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: S3135.d

Analysis Method: 8260C | Date Collected: 10/17/2024 10:00

Sample wt/vol: 4.858(g) | Date Analyzed: 10/19/2024 13:33

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 10(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: 22.9 % Solids: 77.1 | Level: (low/med) Medium

Analysis Batch No.: 728936 | Units: ug/Kg

Preparation Batch No.: 728938 | Instrument ID: HP5973S

Number TICs Found: 4 | TIC Result Total: 2271

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
95-47-6	o-Xylene	8.37	21	J	1%
	Unknown	10.73	520	T J	
	Unknown	11.68	1100	T J	
87-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	12.09	630	T J N	99%

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

No data validation qualifiers were added

MKP 12/9/2024

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: X00000033772.d

Analysis Method: 8270D | Date Collected: 10/17/2024 10:00

Extract. Method: 3550C | Date Extracted: 10/18/2024 18:09

Sample wt/vol: 30.84(g) | Date Analyzed: 10/22/2024 17:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 22.9 % Solids: 77.1 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729241 | Units: ug/Kg

Preparation Batch No.: 728928 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	630	U	630	350
95-95-4	2,4,5-Trichlorophenol	1100	U	1100	290
88-06-2	2,4,6-Trichlorophenol	1100	U	1100	210
120-83-2	2,4-Dichlorophenol	1100	U	1100	110
105-67-9	2,4-Dimethylphenol	1100	U	1100	260
51-28-5	2,4-Dinitrophenol	10000	U	10000	4900
121-14-2	2,4-Dinitrotoluene	1100	U	1100	220
606-20-2	2,6-Dinitrotoluene	1100	U	1100	130
91-58-7	2-Chloronaphthalene	1100	U	1100	180
95-57-8	2-Chlorophenol	2100	U	2100	200
91-57-6	2-Methylnaphthalene	230	J	1100	210
95-48-7	2-Methylphenol	1100	U	1100	130
88-74-4	2-Nitroaniline	2100	U	2100	160
88-75-5	2-Nitrophenol	1100	U	1100	300
91-94-1	3,3'-Dichlorobenzidine	2100	U	2100	1300
99-09-2	3-Nitroaniline	2100	U	2100	300
534-52-1	4,6-Dinitro-2-methylphenol	2100	U	2100	1100
101-55-3	4-Bromophenyl phenyl ether	1100	U	1100	150
59-50-7	4-Chloro-3-methylphenol	1100	U	1100	260
106-47-8	4-Chloroaniline	1100	U	1100	260
7005-72-3	4-Chlorophenyl phenyl ether	1100	U	1100	130
106-44-5	4-Methylphenol	2100	U	2100	130
100-01-6	4-Nitroaniline	2100	U	2100	560
100-02-7	4-Nitrophenol	2100	U	2100	750
83-32-9	Acenaphthene	790	J	1100	160
208-96-8	Acenaphthylene	1100	U	1100	140
98-86-2	Acetophenone	1100	U	1100	150
120-12-7	Anthracene	1700		1100	260
1912-24-9	Atrazine	1100	U	1100	370
100-52-7	Benzaldehyde	1100	U	1100	850
56-55-3	Benzo[a]anthracene	2200		1100	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: X00000033772.d

Analysis Method: 8270D | Date Collected: 10/17/2024 10:00

Extract. Method: 3550C | Date Extracted: 10/18/2024 18:09

Sample wt/vol: 30.84(g) | Date Analyzed: 10/22/2024 17:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 22.9 % Solids: 77.1 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729241 | Units: ug/Kg

Preparation Batch No.: 728928 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	2200		1100	160
205-99-2	Benzo[b]fluoranthene	2500		1100	170
191-24-2	Benzo[g,h,i]perylene	1600		1100	110
207-08-9	Benzo[k]fluoranthene	940	J	1100	140
92-52-4	Biphenyl	1100	U	1100	160
108-60-1	bis (2-chloroisopropyl) ether	1100	U	1100	210
111-91-1	Bis(2-chloroethoxy)methane	1100	U	1100	230
111-44-4	Bis(2-chloroethyl)ether	1100	U	1100	140
117-81-7	Bis(2-ethylhexyl) phthalate	1100	U	1100	370
85-68-7	Butyl benzyl phthalate	190	J	1100	180
105-60-2	Caprolactam	1100	U	1100	320
86-74-8	Carbazole	640	J	1100	130
218-01-9	Chrysene	2300		1100	240
53-70-3	Dibenz(a,h)anthracene	390	J	1100	190
132-64-9	Dibenzofuran	460	J	1100	130
84-66-2	Diethyl phthalate	1100	U	1100	140
131-11-3	Dimethyl phthalate	1100	U	1100	130
84-74-2	Di-n-butyl phthalate	1100	U	1100	180
117-84-0	Di-n-octyl phthalate	1100	U	1100	130
206-44-0	Fluoranthene	6300		1100	110
86-73-7	Fluorene	720	J	1100	130
118-74-1	Hexachlorobenzene	1100	U	1100	150
87-68-3	Hexachlorobutadiene	390	J	1100	160
77-47-4	Hexachlorocyclopentadiene	1100	U	1100	150
67-72-1	Hexachloroethane	1100	U	1100	140
193-39-5	Indeno[1,2,3-cd]pyrene	1200		1100	130
78-59-1	Isophorone	1100	U	1100	230
91-20-3	Naphthalene	320	J	1100	140
98-95-3	Nitrobenzene	1100	U	1100	120
621-64-7	N-Nitrosodi-n-propylamine	1100	U	1100	180
86-30-6	N-Nitrosodiphenylamine	1100	U	1100	870

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: X00000033772.d

Analysis Method: 8270D | Date Collected: 10/17/2024 10:00

Extract. Method: 3550C | Date Extracted: 10/18/2024 18:09

Sample wt/vol: 30.84(g) | Date Analyzed: 10/22/2024 17:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 22.9 % Solids: 77.1 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729241 | Units: ug/Kg

Preparation Batch No.: 728928 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	2100	U	2100	1100
85-01-8	Phenanthrene	6100		1100	160
108-95-2	Phenol	1100	U	1100	160
129-00-0	Pyrene	5100		1100	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	63		26-143
321-60-8	2-Fluorobiphenyl (Surr)	71		50-121
367-12-4	2-Fluorophenol (Surr)	71		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	67		40-121
4165-62-2	Phenol-d5 (Surr)	70		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	73		46-143

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

No data validation qualifiers were added

MKP 12/9/2024

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: 5_75024.D

Analysis Method: 8081B | Date Collected: 10/17/2024 10:00

Extraction Method: 3550C | Date Extracted: 10/18/2024 18:15

Sample wt/vol: 30.48(g) | Date Analyzed: 10/21/2024 14:30

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 22.9 % Solids: 77.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729100 | Units: ug/Kg

Preparation Batch No.: 728929 | Instrument ID: HP6890-5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	43	U	43	8.3
72-55-9	4,4'-DDE	43	U	43	8.9
50-29-3	4,4'-DDT	43	U	43	10
309-00-2	Aldrin	43	U	43	10
319-84-6	alpha-BHC	9.1	J B	43	7.7
319-85-7	beta-BHC	43	U	43	7.7
5103-71-9	Chlordane (.alpha.)	43	U	43	21
319-86-8	delta-BHC	43	U	43	7.9
60-57-1	Dieldrin	43	U	43	10
959-98-8	Endosulfan I	43	U	43	8.2
33213-65-9	Endosulfan II	43	U	43	7.7
1031-07-8	Endosulfan sulfate	43	U	43	7.9
72-20-8	Endrin	43	U	43	8.4
76-44-8	Heptachlor	43	U	43	9.2
58-89-9	Lindane	43	U	43	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	144	S1+	45-120
877-09-8	Tetrachloro-m-xylene	130	S1+	30-124

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

No data validation qualifiers were added

MKP 12/9/2024

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: 70001129.D

Analysis Method: 8082A | Date Collected: 10/17/2024 10:00

Extraction Method: 3550C | Date Extracted: 10/18/2024 18:25

Sample wt/vol: 2.27(g) | Date Analyzed: 10/22/2024 03:30

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 22.9 % Solids: 77.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729107 | Units: mg/Kg

Preparation Batch No.: 728930 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.29	U	0.29	0.056
11104-28-2	PCB-1221	0.29	U	0.29	0.056
11141-16-5	PCB-1232	0.29	U	0.29	0.056
53469-21-9	PCB-1242	0.29	U	0.29	0.056
12672-29-6	PCB-1248	0.29	U	0.29	0.056
11097-69-1	PCB-1254	0.29	U	0.29	0.13
11096-82-5	PCB-1260	0.29	U	0.29	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	111		60-154
2051-24-3	DCB Decachlorobiphenyl	132		65-174

Method 8151A

Herbicides (GC) by Method 8151A

No data validation qualifiers were added

MKP 12/9/2024

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: 2024-10-22 15-20-55-04-00-08.D

Analysis Method: 8151A | Date Collected: 10/17/2024 10:00

Extraction Method: 8151A | Date Extracted: 10/20/2024 07:03

Sample wt/vol: 30.45(g) | Date Analyzed: 10/22/2024 15:20

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 22.9 % Solids: 77.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729296 | Units: ug/Kg

Preparation Batch No.: 729003 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	21	U	21	7.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	68		28-129

1633

Per- and Polyfluoroalkyl Substances by LC/MS/MS

No data validation qualifiers were added

MKP 12/9/2024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: 2024_10_21solidinj20.d

Analysis Method: Draft-3 1633 | Date Collected: 10/17/2024 10:00

Extraction Method: 1633 Shake | Date Extracted: 10/21/2024 10:05

Sample wt/vol: 1.56(g) | Date Analyzed: 10/22/2024 03:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 22.9 % Solids: 77.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 631763 | Units: ug/Kg

Preparation Batch No.: 631678 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.83	U	0.83	0.21
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.22	J	0.42	0.10
307-24-4	Perfluorohexanoic acid (PFHxA)	0.33		0.21	0.052
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.088	J	0.21	0.052
335-67-1	Perfluorooctanoic acid (PFOA)	0.34		0.21	0.052
375-95-1	Perfluorononanoic acid (PFNA)	0.10	J	0.21	0.052
335-76-2	Perfluorodecanoic acid (PFDA)	0.12	J	0.21	0.052
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.052
307-55-1	Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.052
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.21	U	0.21	0.052
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.21	U	0.21	0.052
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.052
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.21	U	0.21	0.052
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.052	J	0.21	0.052
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.21	U	0.21	0.052
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.77		0.21	0.052
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.21	U	0.21	0.052
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.21	U	0.21	0.052
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.83	U	0.83	0.21
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.83	U	0.83	0.21
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.83	U	0.83	0.21
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.52		0.21	0.052
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.15	J	0.21	0.052
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.21	U	0.21	0.052
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.56		0.21	0.052

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: 2024_10_21solidinj20.d

Analysis Method: Draft-3 1633 | Date Collected: 10/17/2024 10:00

Extraction Method: 1633 Shake | Date Extracted: 10/21/2024 10:05

Sample wt/vol: 1.56(g) | Date Analyzed: 10/22/2024 03:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 22.9 % Solids: 77.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 631763 | Units: ug/Kg

Preparation Batch No.: 631678 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.21	U	0.21	0.052
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.1	U	2.1	0.52
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.1	U	2.1	0.52
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.83	U	0.83	0.21
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.83	U	0.83	0.21
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.42	U	0.42	0.10
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.42	U	0.42	0.10
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.83	U	0.83	0.21
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.83	U	0.83	0.21
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.42	U	0.42	0.10
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	1.0	0.26
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.2	U	5.2	1.3
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.2	U	5.2	1.3
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.21	U	0.21	0.052
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.42	U	0.42	0.10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224492-1

SDG No.:

Client Sample ID: R1 MW-1 (2-4') | Lab Sample ID: 480-224492-1

Matrix: Solid | Lab File ID: 2024_10_21solidinj20.d

Analysis Method: Draft-3 1633 | Date Collected: 10/17/2024 10:00

Extraction Method: 1633 Shake | Date Extracted: 10/21/2024 10:05

Sample wt/vol: 1.56(g) | Date Analyzed: 10/22/2024 03:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 22.9 % Solids: 77.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 631763 | Units: ug/Kg

Preparation Batch No.: 631678 | Instrument ID: LCMS04

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	91.9		20-150
STL01893	13C5 PFPeA	80.7		20-150
STL02577	13C5 PFHxA	82.4		20-150
STL01892	13C4 PFHpA	87.4		20-150
STL01052	13C8 PFOA	80.9		20-150
STL02578	13C9 PFNA	96.4		20-150
STL02579	13C6 PFDA	94.3		20-150
STL02580	13C7 PFUnA	86.9		20-150
STL02116	13C2 PFTeDA	56.7		20-150
STL02337	13C3 PFBS	99.7		20-150
STL02581	13C3 PFHxS	88.8		20-150
STL01054	13C8 PFOS	93.1		20-150
STL01056	13C8 PFOSA	80.6		20-150
STL02118	d3-NMeFOSAA	94.2		20-150
STL02117	d5-NEtFOSAA	91.7		20-150
STL02395	M2-4:2 FTS	128		20-150
STL02279	M2-6:2 FTS	144		20-150
STL02280	M2-8:2 FTS	150		20-150
STL02255	13C3 HFPO-DA	87.0		20-150
STL02277	d7-N-MeFOSE-M	70.8		20-150
STL02278	d9-N-EtFOSE-M	66.3		20-150
STL02704	d5-NEtPFOSA	73.4		20-150
STL02705	D3-NMeFOSA	68.5		20-150
STL02703	13C2-PFDoDA	80.0		20-150

METALS

No data validation qualifiers were added

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COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224492-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
R1 MW-1 (2-4')	480-224492-1

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1
Lab Name: Eurofins Buffalo
Job No.: 480-224492-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/17/2024 10:00
Reporting Basis: DRY
Date Received: 10/17/2024 16:10
Preparation Batch Number: 728872
Instrument ID: ICAP3
% Solids: 77.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	6520	13.0	11.2	mg/Kg			1	6010C
7440-36-0	Antimony	19.5	19.5	0.69	mg/Kg	U		1	6010C
7440-38-2	Arsenic	2.4	2.6	1.1	mg/Kg	J		1	6010C
7440-39-3	Barium	21.1	0.65	0.18	mg/Kg			1	6010C
7440-41-7	Beryllium	0.27	0.26	0.052	mg/Kg			1	6010C
7440-43-9	Cadmium	1.5	0.26	0.091	mg/Kg			1	6010C
7440-70-2	Calcium	149000	325	176	mg/Kg			5	6010C
7440-47-3	Chromium	7.2	0.65	0.47	mg/Kg			1	6010C
7440-48-4	Cobalt	3.6	0.65	0.13	mg/Kg			1	6010C
7440-50-8	Copper	15.4	1.3	0.74	mg/Kg			1	6010C
7439-89-6	Iron	7930	13.0	11.0	mg/Kg			1	6010C
7439-92-1	Lead	105	1.3	0.60	mg/Kg			1	6010C
7439-95-4	Magnesium	85300	130	55.2	mg/Kg			5	6010C
7439-96-5	Manganese	585	1.3	0.36	mg/Kg			1	6010C
7440-02-0	Nickel	8.3	6.5	0.33	mg/Kg			1	6010C
7440-09-7	Potassium	2270	39.1	31.6	mg/Kg			1	6010C
7782-49-2	Selenium	5.2	5.2	1.0	mg/Kg	U		1	6010C
7440-22-4	Silver	0.78	0.78	0.26	mg/Kg	U		1	6010C
7440-23-5	Sodium	204	182	79.8	mg/Kg			1	6010C
7440-28-0	Thallium	7.8	7.8	0.99	mg/Kg	U		1	6010C
7440-62-2	Vanadium	12.9	0.65	0.17	mg/Kg			1	6010C
7440-66-6	Zinc	335	2.6	1.3	mg/Kg			1	6010C
7439-97-6	Mercury	0.015	0.027	0.0063	mg/Kg	J		1	7471B

GENERAL CHEMISTRY

No data validation qualifiers were added

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COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224492-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
R1 MW-1 (2-4')	480-224492-1

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job Number: 480-224492-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
R1 MW-1 (2-4')	480-224492-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1
Lab Name: Eurofins Buffalo
Job No.: 480-224492-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/17/2024 10:00
Reporting Basis: DRY
Date Received: 10/17/2024 16:10
Preparation Batch Number: 729210
Instrument ID: SEAL 1
% Solids: 77.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.2	1.2	0.56	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: R1 MW-1 (2-4')
Lab Sample ID: 480-224492-1
Lab Name: Eurofins Edison
Job No.: 480-224492-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/17/2024 10:00
Reporting Basis: DRY
Date Received: 10/17/2024 16:10
Preparation Batch Number: 1004770
Instrument ID: WetHexSpec
% Solids: 77.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.5	2.5	1.1	mg/Kg	U		1	7196A

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: Jacob Cox	Lab PM: T. Beninati	Carrier Tracking No(s):	COC No: Syracuse #175
Client Contact: Jacob Cox	Phone: 716 4180792	E-Mail: John.Beninati@eurofins.com	State of Origin:	Page:
Company: BE3 (Bridges Eng.)			Accreditations Required (See note):	Job #:
Address: 960 Bust, Ave	Due Date Requested:			
City: Buffalo NY	TAT Requested (days): Standard			
State, Zip: NY 14213	PO #:			
Phone: 716 4180192				
Email: jcox@be3corp.com	WO #:			
Site: The Nest Site Analysis-Soil	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, Other:
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

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 TCL VOC + TICs	6010C, 7471B, 8681B, 8082A	8151A, 8270D	7196A, 9012B	1633_Final	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
RI MW-1 (2-4')	10/17	10:00	G	Solid			X	X	X	X	X		Added Hex Chrom + Cyanide

480-224492 Chain of Custody

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
☒ 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) IV Cat B

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: Jacob Cox	Date/Time: 10/17 16:18	Company: BE3	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/17/21 16:18	Company TRV	

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.0 IR #SC ICE

Ver: 06/08/2021

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:	Lab PM: Beninati John	Carrier Tracking No(s):	COC No: 480-89927 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Beninati@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 #: 480-224492-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/30/2024	Analysis Requested		Preservation Codes.
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: The Nest Site Analysis	Project #: 48028073			
Site:	SSOW#:			Other:

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:						
R1 MW-1 (2-4) (480-224492-1)	10/17/24	10:00 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
1	HS	10-18-24 1600		MALISSA LOAR	10-19-24 930	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-89934.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-224492-1
Address: 777 New Durham Road,	Due Date Requested: 10/30/2024			Preservation Codes:
City: Edison	TAT Requested (days):			
State, Zip: NJ 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: The Nest Site Analysis	Project #: 48028073			
Site:	SSOW#:			Other:

Analysis Requested

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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
R1 MW-1 (2-4) (480-224492-1)	10/17/24	10:00 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: Fedex

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	MS	10-18-24 1600		BPaen	10/18/24 4:00	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 05/06/2024

IR-910-12 15-17

Appendix B

Laboratory QC Documentation

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224492-1

SDG No.:

Lab Sample ID: CCVIS 480-728936/4 Calibration Date: 10/19/2024 09:53

Instrument ID: HP5973S Calib Start Date: 10/15/2024 15:49

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/16/2024 11:36

Lab File ID: S3128.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Ave	1.342	1.692	0.1000	31.5	25.0	26.1	50.0	
Chloromethane	Ave	1.717	2.119	0.1000	30.9	25.0	23.4*	20.0	
Vinyl chloride	Ave	1.236	1.475	0.1000	29.8	25.0	19.4	20.0	
Butadiene	Ave	1.453	1.952		33.6	25.0	34.4*	20.0	NT
Bromomethane	Ave	0.7860	0.7851	0.1000	25.0	25.0	-0.1	50.0	
Chloroethane	Ave	0.9579	1.058	0.1000	27.6	25.0	10.5	50.0	
Dichlorofluoromethane	Ave	2.116	2.406		28.4	25.0	13.7	20.0	
Trichlorofluoromethane	Ave	1.528	1.923	0.1000	31.4	25.0	25.8*	20.0	
Ethyl ether	Ave	1.292	1.291		25.0	25.0	-0.0	20.0	
Acrolein	Ave	0.1657	0.1563		118	125	-5.7	50.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.9438	1.124	0.1000	29.8	25.0	19.1	20.0	
1,1-Dichloroethene	Ave	0.9530	1.043	0.1000	27.4	25.0	9.4	20.0	
Acetone	Ave	0.6289	0.6129	0.1000	122	125	-2.5	50.0	
Iodomethane	Ave	1.777	1.766		24.9	25.0	-0.6	20.0	
Carbon disulfide	Ave	3.251	3.639	0.1000	28.0	25.0	12.0	20.0	
Allyl chloride	Ave	2.237	2.617		29.2	25.0	17.0	20.0	
Methyl acetate	Ave	1.443	1.458	0.1000	50.5	50.0	1.1	50.0	
Methylene Chloride	Lin1		1.258	0.1000	25.4	25.0	1.6	20.0	
2-Methyl-2-propanol	Ave	0.1684	0.1527		227	250	-9.3	50.0	
Methyl tert-butyl ether	Ave	4.155	4.029	0.1000	24.2	25.0	-3.0	20.0	
trans-1,2-Dichloroethene	Ave	1.188	1.223	0.1000	25.7	25.0	3.0	20.0	
Acrylonitrile	Ave	0.7191	0.7199		250	250	0.1	20.0	
Hexane	Ave	1.867	2.277		30.5	25.0	21.9*	20.0	NT
1,1-Dichloroethane	Ave	2.301	2.482	0.2000	27.0	25.0	7.9	20.0	
Vinyl acetate	Lin1		2.436		45.0	50.0	-10.0	20.0	
2,2-Dichloropropane	Ave	1.157	1.336		28.9	25.0	15.4	20.0	
cis-1,2-Dichloroethene	Ave	1.243	1.322	0.1000	26.6	25.0	6.4	20.0	
2-Butanone (MEK)	Ave	0.9066	0.8865	0.1000	122	125	-2.2	20.0	
Chlorobromomethane	Ave	0.6494	0.6156		23.7	25.0	-5.2	20.0	
Tetrahydrofuran	Ave	0.6686	0.6256		46.8	50.0	-6.4	20.0	
Chloroform	Ave	2.252	2.156	0.2000	23.9	25.0	-4.3	20.0	
1,1,1-Trichloroethane	Ave	1.703	1.816	0.1000	26.7	25.0	6.6	20.0	
Cyclohexane	Ave	2.292	2.688	0.1000	29.3	25.0	17.3	20.0	
Carbon tetrachloride	Ave	1.467	1.619	0.1000	27.6	25.0	10.4	20.0	
1,1-Dichloropropene	Ave	1.669	1.849		27.7	25.0	10.8	20.0	
Benzene	Ave	5.027	5.123	0.5000	25.5	25.0	1.9	20.0	
Isobutyl alcohol	Ave	0.0643	0.0677		658	625	5.3	50.0	
1,2-Dichloroethane	Ave	1.954	1.974	0.1000	25.3	25.0	1.0	20.0	
n-Heptane	Ave	1.877	2.476		33.0	25.0	31.9*	20.0	NT
Trichloroethene	Ave	1.250	1.229	0.2000	24.6	25.0	-1.7	20.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224492-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-728938/3-A

Matrix: Solid | Lab File ID: S3134.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 10/19/2024 12:22

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 10(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Medium

Analysis Batch No.: 728936 | Units: ug/Kg

Preparation Batch No.: 728938 | Instrument ID: HP5973S

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	100	U	100	18
98-82-8	Isopropylbenzene	100	U	100	15
79-20-9	Methyl acetate	500	U	500	48
1634-04-4	Methyl tert-butyl ether	100	U	100	38
108-87-2	Methylcyclohexane	100	U	100	47
75-09-2	Methylene Chloride	70.2	J	100	20
127-18-4	Tetrachloroethene	100	U	100	13
108-88-3	Toluene	100	U	100	27
156-60-5	trans-1,2-Dichloroethene	100	U	100	24
10061-02-6	trans-1,3-Dichloropropene	100	U	100	9.8
79-01-6	Trichloroethene	100	U	100	28
75-69-4	Trichlorofluoromethane	100	U	100	47
75-01-4	Vinyl chloride	100	U	100	34
1330-20-7	Xylenes, Total	200	U	200	55
10061-01-5	cis-1,3-Dichloropropene	100	U	100	24
100-42-5	Styrene	100	U	100	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		53-146
460-00-4	4-Bromofluorobenzene (Surr)	93		49-148
2037-26-5	Toluene-d8 (Surr)	99		50-149
1868-53-7	Dibromofluoromethane (Surr)	90		60-140

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224492-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-728929/1-A

Matrix: Solid | Lab File ID: 5_75015.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 10/18/2024 18:15

Sample wt/vol: 30(g) | Date Analyzed: 10/21/2024 11:35

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729100 | Units: ug/Kg

Preparation Batch No.: 728929 | Instrument ID: HP6890-5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	1.7	U	1.7	0.32
72-55-9	4,4'-DDE	1.7	U	1.7	0.35
50-29-3	4,4'-DDT	0.480	J	1.7	0.39
309-00-2	Aldrin	1.7	U	1.7	0.41
319-84-6	alpha-BHC	0.351	J	1.7	0.30
319-85-7	beta-BHC	1.7	U	1.7	0.30
5103-71-9	Chlordane (.alpha.)	1.7	U	1.7	0.83
319-86-8	delta-BHC	0.619	J	1.7	0.31
60-57-1	Dieldrin	1.7	U	1.7	0.40
959-98-8	Endosulfan I	1.7	U	1.7	0.32
33213-65-9	Endosulfan II	1.7	U	1.7	0.30
1031-07-8	Endosulfan sulfate	1.7	U	1.7	0.31
72-20-8	Endrin	1.7	U	1.7	0.33
76-44-8	Heptachlor	1.7	U	1.7	0.36
58-89-9	Lindane	0.391	J	1.7	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	81		45-120
877-09-8	Tetrachloro-m-xylene	62		30-124

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

The NEST Site
333 1st Street
Niagara Falls, NY 14303
BCP Site # C932183

SDG: **J224566-1**
3 soil sampleS

Prepared for:

BE3 Corp.
960 Busti Avenue
Suite 150-B
Buffalo, NY 14213
Attention: Jacob Cox

December 2024

EDU *Environmental Data Usability 10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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3.0	SAMPLE AND ANALYSIS SUMMARY	2
4.0	GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA	2
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APPENDIX A Validated Analytical Results
APPENDIX B Laboratory QC Documentation
APPENDIX C Validator Qualifications

Tables

Table 4-1 Data Validation Guidance Documents
Table 4-2 Quality Control Criteria for Validating Laboratory Analytical Data

Summaries of Validated Results
Table 6-1 VOCs
Table 6-2 SVOCs
Table 6-3 Pesticides
Table 6-4 PCBs
Table 6-5 Herbicides
Table 6-6 PFASs
Table 6-7 Metals
Table 6-8 TCN and Cr+6

REVIEWER'S NARRATIVE
BE3 SDG J224566-1: The NEST Site – Niagara Falls, NY

The data associated with this Sample Delivery Group (SDG) J224566-1, analyzed by Eurofins Buffalo, Buffalo, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/9/2024

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	The NEST Site 333 1st Street Niagara Falls, NY 14303 BCP Site #: C932183
SAMPLING DATE:	October 18, 2024
SAMPLE TYPE:	3 soil samples
LABORATORY:	Eurofins Buffalo Buffalo, NY
SDG No.:	J224566-1

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 3 soil samples collected on October 18, 2024. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), Pesticides, PCBs, Herbicides, PFASs, Metals, TCN, and Hexavalent Chromium (Cr+6).

All analyses were performed by Eurofins Buffalo, Buffalo, NY and analyzed as SDG J224556-1. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-8. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG J224566-1, three samples were analyzed and results were reported for 572 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have rejected/qualified and the corresponding QC reasons.

NOTE: 1) As noted by the laboratory, the soil samples were not collected following SW846 5035A protocol. This adds an element of uncertainty to the analytical results for volatile organic analytes (VOAs). Although not specifically indicated on the final data sheets with a "J" flag, the VOA analytical results should be considered estimated, but usable.

Table 6-1 8260 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
12I-MW-4 (1-3') 12I-MW-4 (10-12') 12I-MW-2 (2-4')	Chloroform	CRQL-U	Analyte detected in method blank	Data changed to non-detect
12I-MW-4 (1-3') 12I-MW-4 (10-12') 12I-MW-2 (2-4')	Chloromethane Dichlorodifluoromethane Trichlorofluoromethane	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-2 8270 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
12I-MW-4 (1-3') 12I-MW-4 (10-12') 12I-MW-2 (2-4')	2-Nitroanlinie	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
12I-MW-4 (1-3')	d-BHC	J detect	% D for 2nd column confirmation > 25 %	Data are estimated
12I-MW-2 (2-4')	4,4'-DDT	CRQL-U	Analyte detected in method blank	Data changed to non-detect

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-5 Herbicides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
12I-MW-2 (2-4')	Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, K, Se, Ag, Na, Tl, and V	J detects UJ non-detects	MS/MSD rec < QC limit (PDS is > 75 %)	Data are estimated
12I-MW-2 (2-4')	Ca, Fe, Mn, V, and Zn	J detects UJ non-detects	% D for serial dil. > 15 %	Data are estimated

Table 6-8 TCN and Cr+6

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
12I-MW-4 (1-3')	TCN	J- detects UJ non-detects	MS/MSD rec < QC limit	Data are estimated

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo NY 14213

Generated 11/12/2024 5:08 PM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-224566-1

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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Job Narrative
480-224566-1

Receipt
The samples were received on 10/18/2024 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.9º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-729066 recovered above the upper control limit for Chloromethane, Cyclohexane, Trichlorofluoromethane and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 12I-MW-4 (1-3') (480-224566-1), 12I-MW-4 (10-12') (480-224566-2) and 12I-MW-2 (2-4') (480-224566-3).

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: 12I-MW-4 (10-12') (480-224566-2) and 12I-MW-2 (2-4') (480-224566-3). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-729559 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 12I-MW-4 (1-3') (480-224566-1), 12I-MW-4 (10-12') (480-224566-2) and 12I-MW-2 (2-4') (480-224566-3).

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 sample contained an allowable number of surrogate compounds outside limits: 12I-MW-2 (2-4') (480-224566-3). These results have been reported and qualified.

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Atrazine. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-729224 and analytical batch 480-729434 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

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

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample matrix: 12I-MW-4 (10-12') (480-224566-2) and 12I-MW-2 (2-4') (480-224566-3). 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: (480-224566-B-3-G MS) and (480-224566-B-3-H 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 method blank for preparation batch 480-729364 and analytical batch 480-729407 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.

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

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

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-729538 and analytical batch 480-729607 were outside control limits. Sample matrix interference is suspected because the

associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep
Method 3550C: Insufficient sample volume was provided for the following sample for the analysis: 12I-MW-4 (1-3') (480-224566-1).

Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: 12I-MW-4 (10-12') (480-224566-2), 12I-MW-2 (2-4') (480-224566-3), (480-224566-B-3 MS) and (480-224566-B-3 MSD).

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224566-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224566-1	12I-MW-4 (1-3')	Solid	10/18/24 08:40	10/18/24 16:20
480-224566-2	12I-MW-4 (10-12')	Solid	10/18/24 09:40	10/18/24 16:20
480-224566-3	12I-MW-2 (2-4')	Solid	10/18/24 15:00	10/18/24 16:20

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: M16183.D

Analysis Method: 8260C | Date Collected: 10/18/2024 08:40

Sample wt/vol: 5.03(g) | Date Analyzed: 10/21/2024 01:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 0.9 % Solids: 99.1 | Level: (low/med) Low

Analysis Batch No.: 729066 | Units: ug/Kg

Preparation Batch No.: 729063 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.0	U vs	5.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U vs	5.0	0.81	
79-00-5	1,1,2-Trichloroethane	5.0	U vs	5.0	0.65	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U vs	5.0	1.1	
75-34-3	1,1-Dichloroethane	5.0	U vs	5.0	0.61	
75-35-4	1,1-Dichloroethene	5.0	U vs	5.0	0.61	
120-82-1	1,2,4-Trichlorobenzene	5.0	U vs	5.0	0.30	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U vs	5.0	2.5	
95-50-1	1,2-Dichlorobenzene	5.0	U vs	5.0	0.39	
107-06-2	1,2-Dichloroethane	5.0	U vs	5.0	0.25	
78-87-5	1,2-Dichloropropane	5.0	U vs	5.0	2.5	
541-73-1	1,3-Dichlorobenzene	5.0	U vs	5.0	0.26	
106-46-7	1,4-Dichlorobenzene	5.0	U vs	5.0	0.70	
78-93-3	2-Butanone (MEK)	25	U vs	25	1.8	
591-78-6	2-Hexanone	25	U vs	25	2.5	
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U vs	25	1.6	
67-64-1	Acetone	6.6	J vs	25	4.2	
71-43-2	Benzene	0.39	J vs	5.0	0.25	
75-27-4	Bromodichloromethane	5.0	U vs	5.0	0.67	
75-25-2	Bromoform	5.0	U vs	5.0	2.5	
74-83-9	Bromomethane	5.0	U vs	5.0	0.45	
75-15-0	Carbon disulfide	5.0	U vs	5.0	2.5	
56-23-5	Carbon tetrachloride	5.0	U vs	5.0	0.49	
108-90-7	Chlorobenzene	5.0	U vs	5.0	0.66	
124-48-1	Dibromochloromethane	5.0	U vs	5.0	0.64	
75-00-3	Chloroethane	5.0	U vs	5.0	1.1	UJ
67-66-3	Chloroform	5.0 UJ ~~0.50~~	J vs B	5.0	0.31	UJ
74-87-3	Chloromethane	5.0	U vs	5.0	0.30	UJ
156-59-2	cis-1,2-Dichloroethene	5.0	U vs	5.0	0.64	
10061-01-5	cis-1,3-Dichloropropene	5.0	U vs	5.0	0.72	
110-82-7	Cyclohexane	5.0	U vs	5.0	0.70	UJ

MKP 12/9/2024

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: M16183.D

Analysis Method: 8260C | Date Collected: 10/18/2024 08:40

Sample wt/vol: 5.03(g) | Date Analyzed: 10/21/2024 01:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 0.9 % Solids: 99.1 | Level: (low/med) Low

Analysis Batch No.: 729066 | Units: ug/Kg

Preparation Batch No.: 729063 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	5.0	U vs	5.0	0.41	
100-41-4	Ethylbenzene	5.0	U vs	5.0	0.35	
106-93-4	1,2-Dibromoethane	5.0	U vs	5.0	0.64	
98-82-8	Isopropylbenzene	5.0	U vs	5.0	0.76	
79-20-9	Methyl acetate	25	U vs	25	3.0	
1634-04-4	Methyl tert-butyl ether	5.0	U vs	5.0	0.49	
108-87-2	Methylcyclohexane	5.0	U vs	5.0	0.76	
75-09-2	Methylene Chloride	5.0	U vs	5.0	2.3	
100-42-5	Styrene	5.0	U vs	5.0	0.25	
127-18-4	Tetrachloroethene	5.0	U vs	5.0	0.67	
108-88-3	Toluene	1.6	J vs	5.0	0.38	
156-60-5	trans-1,2-Dichloroethene	5.0	U vs	5.0	0.52	
10061-02-6	trans-1,3-Dichloropropene	5.0	U vs	5.0	2.2	
79-01-6	Trichloroethene	5.0	U vs	5.0	1.1	
75-69-4	Trichlorofluoromethane	5.0	U vs	5.0	0.47	UJ
75-01-4	Vinyl chloride	5.0	U vs	5.0	0.61	UJ
1330-20-7	Xylenes, Total	1.3	J vs	10	0.84	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-126
460-00-4	4-Bromofluorobenzene (Surr)	93		72-126
1868-53-7	Dibromofluoromethane (Surr)	112		60-140

MKP 12/9/2024

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: M16183.D

Analysis Method: 8260C | Date Collected: 10/18/2024 08:40

Sample wt/vol: 5.03(g) | Date Analyzed: 10/21/2024 01:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 0.9 % Solids: 99.1 | Level: (low/med) Low

Analysis Batch No.: 729066 | Units: ug/Kg

Preparation Batch No.: 729063 | Instrument ID: HP5977M

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (10-12') | Lab Sample ID: 480-224566-2

Matrix: Solid | Lab File ID: M16184.D

Analysis Method: 8260C | Date Collected: 10/18/2024 09:40

Sample wt/vol: 5.1(g) | Date Analyzed: 10/21/2024 02:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 3.8 % Solids: 96.2 | Level: (low/med) Low

Analysis Batch No.: 729066 | Units: ug/Kg

Preparation Batch No.: 729063 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.1	U vs	5.1	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U vs	5.1	0.83	
79-00-5	1,1,2-Trichloroethane	5.1	U vs	5.1	0.66	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U vs	5.1	1.2	
75-34-3	1,1-Dichloroethane	5.1	U vs	5.1	0.62	
75-35-4	1,1-Dichloroethene	5.1	U vs	5.1	0.62	
120-82-1	1,2,4-Trichlorobenzene	5.1	U vs	5.1	0.31	
96-12-8	1,2-Dibromo-3-Chloropropane	5.1	U vs	5.1	2.5	
95-50-1	1,2-Dichlorobenzene	5.1	U vs	5.1	0.40	
107-06-2	1,2-Dichloroethane	5.1	U vs	5.1	0.26	
78-87-5	1,2-Dichloropropane	5.1	U vs	5.1	2.5	
541-73-1	1,3-Dichlorobenzene	5.1	U vs	5.1	0.26	
106-46-7	1,4-Dichlorobenzene	5.1	U vs	5.1	0.71	
78-93-3	2-Butanone (MEK)	4.2	J vs	25	1.9	
591-78-6	2-Hexanone	25	U vs	25	2.5	
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U vs	25	1.7	
67-64-1	Acetone	22	J vs	25	4.3	
71-43-2	Benzene	0.47	J vs	5.1	0.25	
75-27-4	Bromodichloromethane	5.1	U vs	5.1	0.68	
75-25-2	Bromoform	5.1	U vs	5.1	2.5	
74-83-9	Bromomethane	5.1	U vs	5.1	0.46	
75-15-0	Carbon disulfide	5.1	U vs	5.1	2.5	
56-23-5	Carbon tetrachloride	5.1	U vs	5.1	0.49	
108-90-7	Chlorobenzene	5.1	U vs	5.1	0.67	
124-48-1	Dibromochloromethane	5.1	U vs	5.1	0.65	
75-00-3	Chloroethane	5.1	U vs	5.1	1.2	UJ
67-66-3	Chloroform	5.1 UJ ~~0.49~~	J vs B	5.1	0.32	UJ
74-87-3	Chloromethane	5.1	U vs	5.1	0.31	UJ
156-59-2	cis-1,2-Dichloroethene	5.1	U vs	5.1	0.65	
10061-01-5	cis-1,3-Dichloropropene	5.1	U vs	5.1	0.73	
110-82-7	Cyclohexane	5.1	U vs	5.1	0.71	UJ

MKP 12/9/2024

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (10-12') | Lab Sample ID: 480-224566-2

Matrix: Solid | Lab File ID: M16184.D

Analysis Method: 8260C | Date Collected: 10/18/2024 09:40

Sample wt/vol: 5.1(g) | Date Analyzed: 10/21/2024 02:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 3.8 % Solids: 96.2 | Level: (low/med) Low

Analysis Batch No.: 729066 | Units: ug/Kg

Preparation Batch No.: 729063 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	5.1	U vs	5.1	0.42	
100-41-4	Ethylbenzene	2.1	J vs	5.1	0.35	
106-93-4	1,2-Dibromoethane	5.1	U vs	5.1	0.65	
98-82-8	Isopropylbenzene	5.1	U vs	5.1	0.77	
79-20-9	Methyl acetate	25	U vs	25	3.1	
1634-04-4	Methyl tert-butyl ether	5.1	U vs	5.1	0.50	
108-87-2	Methylcyclohexane	5.1	U vs	5.1	0.77	
75-09-2	Methylene Chloride	5.1	U vs	5.1	2.3	
100-42-5	Styrene	5.1	U vs	5.1	0.25	
127-18-4	Tetrachloroethene	5.1	U vs	5.1	0.68	
108-88-3	Toluene	6.0	vs	5.1	0.39	
156-60-5	trans-1,2-Dichloroethene	5.1	U vs	5.1	0.53	
10061-02-6	trans-1,3-Dichloropropene	5.1	U vs	5.1	2.2	
79-01-6	Trichloroethene	5.1	U vs	5.1	1.1	
75-69-4	Trichlorofluoromethane	5.1	U vs	5.1	0.48	UJ
75-01-4	Vinyl chloride	5.1	U vs	5.1	0.62	UJ
1330-20-7	Xylenes, Total	20	vs	10	0.86	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-126
460-00-4	4-Bromofluorobenzene (Surr)	93		72-126
1868-53-7	Dibromofluoromethane (Surr)	100		60-140

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (10-12') | Lab Sample ID: 480-224566-2

Matrix: Solid | Lab File ID: M16184.D

Analysis Method: 8260C | Date Collected: 10/18/2024 09:40

Sample wt/vol: 5.1(g) | Date Analyzed: 10/21/2024 02:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 3.8 % Solids: 96.2 | Level: (low/med) Low

Analysis Batch No.: 729066 | Units: ug/Kg

Preparation Batch No.: 729063 | Instrument ID: HP5977M

Number TICs Found: 1 | TIC Result Total: 9.7

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
526-73-8	Benzene, 1,2,3-trimethyl-	10.26	9.7	T J N	97%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: M16185.D

Analysis Method: 8260C | Date Collected: 10/18/2024 15:00

Sample wt/vol: 5.18(g) | Date Analyzed: 10/21/2024 02:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 4.7 % Solids: 95.3 | Level: (low/med) Low

Analysis Batch No.: 729066 | Units: ug/Kg

Preparation Batch No.: 729063 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.1	U vs	5.1	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U vs	5.1	0.82	
79-00-5	1,1,2-Trichloroethane	5.1	U vs	5.1	0.66	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U vs	5.1	1.2	
75-34-3	1,1-Dichloroethane	5.1	U vs	5.1	0.62	
75-35-4	1,1-Dichloroethene	5.1	U vs	5.1	0.62	
120-82-1	1,2,4-Trichlorobenzene	5.1	U vs	5.1	0.31	
96-12-8	1,2-Dibromo-3-Chloropropane	5.1	U vs	5.1	2.5	
95-50-1	1,2-Dichlorobenzene	5.1	U vs	5.1	0.40	
107-06-2	1,2-Dichloroethane	5.1	U vs	5.1	0.25	
78-87-5	1,2-Dichloropropane	5.1	U vs	5.1	2.5	
541-73-1	1,3-Dichlorobenzene	5.1	U vs	5.1	0.26	
106-46-7	1,4-Dichlorobenzene	5.1	U vs	5.1	0.71	
78-93-3	2-Butanone (MEK)	25	U vs	25	1.9	
591-78-6	2-Hexanone	25	U vs	25	2.5	
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U vs	25	1.7	
67-64-1	Acetone	25	U vs	25	4.3	
71-43-2	Benzene	5.1	U vs	5.1	0.25	
75-27-4	Bromodichloromethane	5.1	U vs	5.1	0.68	
75-25-2	Bromoform	5.1	U vs	5.1	2.5	
74-83-9	Bromomethane	5.1	U vs	5.1	0.46	
75-15-0	Carbon disulfide	5.1	U vs	5.1	2.5	
56-23-5	Carbon tetrachloride	5.1	U vs	5.1	0.49	
108-90-7	Chlorobenzene	5.1	U vs	5.1	0.67	
124-48-1	Dibromochloromethane	5.1	U vs	5.1	0.65	
75-00-3	Chloroethane	5.1	U vs	5.1	1.1	UJ
67-66-3	Chloroform	5.1 UJ 0.53	J vs B	5.1	0.31	UJ
74-87-3	Chloromethane	5.1	U vs	5.1	0.31	UJ
156-59-2	cis-1,2-Dichloroethene	5.1	U vs	5.1	0.65	
10061-01-5	cis-1,3-Dichloropropene	5.1	U vs	5.1	0.73	
110-82-7	Cyclohexane	5.1	U vs	5.1	0.71	UJ

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: M16185.D

Analysis Method: 8260C | Date Collected: 10/18/2024 15:00

Sample wt/vol: 5.18(g) | Date Analyzed: 10/21/2024 02:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 4.7 % Solids: 95.3 | Level: (low/med) Low

Analysis Batch No.: 729066 | Units: ug/Kg

Preparation Batch No.: 729063 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	5.1	U vs	5.1	0.42	
100-41-4	Ethylbenzene	5.1	U vs	5.1	0.35	
106-93-4	1,2-Dibromoethane	5.1	U vs	5.1	0.65	
98-82-8	Isopropylbenzene	5.1	U vs	5.1	0.76	
79-20-9	Methyl acetate	25	U vs	25	3.1	
1634-04-4	Methyl tert-butyl ether	5.1	U vs	5.1	0.50	
108-87-2	Methylcyclohexane	5.1	U vs	5.1	0.77	
75-09-2	Methylene Chloride	5.1	U vs	5.1	2.3	
100-42-5	Styrene	5.1	U vs	5.1	0.25	
127-18-4	Tetrachloroethene	5.1	U vs	5.1	0.68	
108-88-3	Toluene	5.1	U vs	5.1	0.38	
156-60-5	trans-1,2-Dichloroethene	5.1	U vs	5.1	0.52	
10061-02-6	trans-1,3-Dichloropropene	5.1	U vs	5.1	2.2	
79-01-6	Trichloroethene	5.1	U vs	5.1	1.1	
75-69-4	Trichlorofluoromethane	5.1	U vs	5.1	0.48	UJ
75-01-4	Vinyl chloride	5.1	U vs	5.1	0.62	UJ
1330-20-7	Xylenes, Total	10	U vs	10	0.85	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-126
460-00-4	4-Bromofluorobenzene (Surr)	92		72-126
1868-53-7	Dibromofluoromethane (Surr)	112		60-140

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: M16185.D

Analysis Method: 8260C | Date Collected: 10/18/2024 15:00

Sample wt/vol: 5.18(g) | Date Analyzed: 10/21/2024 02:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 4.7 % Solids: 95.3 | Level: (low/med) Low

Analysis Batch No.: 729066 | Units: ug/Kg

Preparation Batch No.: 729063 | Instrument ID: HP5977M

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: X00000033823.d

Analysis Method: 8270D | Date Collected: 10/18/2024 08:40

Extract. Method: 3550C | Date Extracted: 10/22/2024 06:55

Sample wt/vol: 5.23(g) | Date Analyzed: 10/24/2024 11:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 0.9 % Solids: 99.1 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729559 | Units: ug/Kg

Preparation Batch No.: 729224 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	580	U	580	320	
95-95-4	2,4,5-Trichlorophenol	980	U	980	270	
88-06-2	2,4,6-Trichlorophenol	980	U	980	200	
120-83-2	2,4-Dichlorophenol	980	U	980	100	
105-67-9	2,4-Dimethylphenol	980	U	980	240	
51-28-5	2,4-Dinitrophenol	9600	U	9600	4500	
121-14-2	2,4-Dinitrotoluene	980	U	980	200	
606-20-2	2,6-Dinitrotoluene	980	U	980	120	
91-58-7	2-Chloronaphthalene	980	U	980	160	
95-57-8	2-Chlorophenol	1900	U	1900	180	
91-57-6	2-Methylnaphthalene	980	U	980	200	
95-48-7	2-Methylphenol	980	U	980	120	
88-74-4	2-Nitroaniline	1900	U	1900	140	UJ
88-75-5	2-Nitrophenol	980	U	980	280	
91-94-1	3,3'-Dichlorobenzidine	1900	U	1900	1200	
99-09-2	3-Nitroaniline	1900	U	1900	270	
534-52-1	4,6-Dinitro-2-methylphenol	1900	U	1900	980	
101-55-3	4-Bromophenyl phenyl ether	980	U	980	140	
59-50-7	4-Chloro-3-methylphenol	980	U	980	240	
106-47-8	4-Chloroaniline	980	U	980	240	
7005-72-3	4-Chlorophenyl phenyl ether	980	U	980	120	
106-44-5	4-Methylphenol	1900	U	1900	120	
100-01-6	4-Nitroaniline	1900	U	1900	520	
100-02-7	4-Nitrophenol	1900	U	1900	690	
83-32-9	Acenaphthene	980	U	980	140	
208-96-8	Acenaphthylene	980	U	980	130	
98-86-2	Acetophenone	980	U	980	130	
120-12-7	Anthracene	980	U	980	240	
1912-24-9	Atrazine	980	U	980	340	
100-52-7	Benzaldehyde	980	U	980	780	
56-55-3	Benzo[a]anthracene	980	U	980	98	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: X00000033823.d

Analysis Method: 8270D | Date Collected: 10/18/2024 08:40

Extract. Method: 3550C | Date Extracted: 10/22/2024 06:55

Sample wt/vol: 5.23(g) | Date Analyzed: 10/24/2024 11:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 0.9 % Solids: 99.1 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729559 | Units: ug/Kg

Preparation Batch No.: 729224 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	980	U	980	140
205-99-2	Benzo[b]fluoranthene	980	U	980	160
191-24-2	Benzo[g,h,i]perylene	980	U	980	100
207-08-9	Benzo[k]fluoranthene	980	U	980	130
92-52-4	Biphenyl	980	U	980	140
108-60-1	bis (2-chloroisopropyl) ether	980	U	980	200
111-91-1	Bis(2-chloroethoxy)methane	980	U	980	210
111-44-4	Bis(2-chloroethyl)ether	980	U	980	130
117-81-7	Bis(2-ethylhexyl) phthalate	980	U	980	340
85-68-7	Butyl benzyl phthalate	320	J	980	160
105-60-2	Caprolactam	980	U	980	300
86-74-8	Carbazole	980	U	980	120
218-01-9	Chrysene	980	U	980	220
53-70-3	Dibenz(a,h)anthracene	980	U	980	170
132-64-9	Dibenzofuran	980	U	980	120
84-66-2	Diethyl phthalate	980	U	980	130
131-11-3	Dimethyl phthalate	980	U	980	120
84-74-2	Di-n-butyl phthalate	980	U	980	170
117-84-0	Di-n-octyl phthalate	980	U	980	120
206-44-0	Fluoranthene	980	U	980	100
86-73-7	Fluorene	980	U	980	120
118-74-1	Hexachlorobenzene	980	U	980	130
87-68-3	Hexachlorobutadiene	980	U	980	140
77-47-4	Hexachlorocyclopentadiene	980	U	980	130
67-72-1	Hexachloroethane	980	U	980	130
193-39-5	Indeno[1,2,3-cd]pyrene	980	U	980	120
78-59-1	Isophorone	980	U	980	210
91-20-3	Naphthalene	980	U	980	130
98-95-3	Nitrobenzene	980	U	980	110
621-64-7	N-Nitrosodi-n-propylamine	980	U	980	170
86-30-6	N-Nitrosodiphenylamine	980	U	980	800

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: X00000033823.d

Analysis Method: 8270D | Date Collected: 10/18/2024 08:40

Extract. Method: 3550C | Date Extracted: 10/22/2024 06:55

Sample wt/vol: 5.23(g) | Date Analyzed: 10/24/2024 11:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 0.9 % Solids: 99.1 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729559 | Units: ug/Kg

Preparation Batch No.: 729224 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	1900	U	1900	980
85-01-8	Phenanthrene	980	U	980	140
108-95-2	Phenol	980	U	980	150
129-00-0	Pyrene	980	U	980	120

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	79		26-143
321-60-8	2-Fluorobiphenyl (Surr)	86		50-121
367-12-4	2-Fluorophenol (Surr)	85		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	81		40-121
4165-62-2	Phenol-d5 (Surr)	89		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	91		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (10-12') | Lab Sample ID: 480-224566-2

Matrix: Solid | Lab File ID: X00000033824.d

Analysis Method: 8270D | Date Collected: 10/18/2024 09:40

Extract. Method: 3550C | Date Extracted: 10/22/2024 06:55

Sample wt/vol: 30.71(g) | Date Analyzed: 10/24/2024 11:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 3.8 % Solids: 96.2 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729559 | Units: ug/Kg

Preparation Batch No.: 729224 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	510	U	510	280	
95-95-4	2,4,5-Trichlorophenol	860	U	860	230	
88-06-2	2,4,6-Trichlorophenol	860	U	860	170	
120-83-2	2,4-Dichlorophenol	860	U	860	91	
105-67-9	2,4-Dimethylphenol	860	U	860	210	
51-28-5	2,4-Dinitrophenol	8400	U	8400	4000	
121-14-2	2,4-Dinitrotoluene	860	U	860	180	
606-20-2	2,6-Dinitrotoluene	860	U	860	100	
91-58-7	2-Chloronaphthalene	860	U	860	140	
95-57-8	2-Chlorophenol	1700	U	1700	160	
91-57-6	2-Methylnaphthalene	860	U	860	170	
95-48-7	2-Methylphenol	860	U	860	100	
88-74-4	2-Nitroaniline	1700	U	1700	130	UJ
88-75-5	2-Nitrophenol	860	U	860	240	
91-94-1	3,3'-Dichlorobenzidine	1700	U	1700	1000	
99-09-2	3-Nitroaniline	1700	U	1700	240	
534-52-1	4,6-Dinitro-2-methylphenol	1700	U	1700	860	
101-55-3	4-Bromophenyl phenyl ether	860	U	860	120	
59-50-7	4-Chloro-3-methylphenol	860	U	860	210	
106-47-8	4-Chloroaniline	860	U	860	210	
7005-72-3	4-Chlorophenyl phenyl ether	860	U	860	110	
106-44-5	4-Methylphenol	1700	U	1700	100	
100-01-6	4-Nitroaniline	1700	U	1700	450	
100-02-7	4-Nitrophenol	1700	U	1700	600	
83-32-9	Acenaphthene	860	U	860	130	
208-96-8	Acenaphthylene	860	U	860	110	
98-86-2	Acetophenone	860	U	860	120	
120-12-7	Anthracene	860	U	860	210	
1912-24-9	Atrazine	860	U	860	300	
100-52-7	Benzaldehyde	860	U	860	690	
56-55-3	Benzo[a]anthracene	860	U	860	86	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (10-12') | Lab Sample ID: 480-224566-2

Matrix: Solid | Lab File ID: X00000033824.d

Analysis Method: 8270D | Date Collected: 10/18/2024 09:40

Extract. Method: 3550C | Date Extracted: 10/22/2024 06:55

Sample wt/vol: 30.71(g) | Date Analyzed: 10/24/2024 11:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 3.8 % Solids: 96.2 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729559 | Units: ug/Kg

Preparation Batch No.: 729224 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	860	U	860	130
205-99-2	Benzo[b]fluoranthene	860	U	860	140
191-24-2	Benzo[g,h,i]perylene	860	U	860	91
207-08-9	Benzo[k]fluoranthene	860	U	860	110
92-52-4	Biphenyl	860	U	860	130
108-60-1	bis (2-chloroisopropyl) ether	860	U	860	170
111-91-1	Bis(2-chloroethoxy)methane	860	U	860	180
111-44-4	Bis(2-chloroethyl)ether	860	U	860	110
117-81-7	Bis(2-ethylhexyl) phthalate	860	U	860	290
85-68-7	Butyl benzyl phthalate	5200		860	140
105-60-2	Caprolactam	860	U	860	260
86-74-8	Carbazole	860	U	860	100
218-01-9	Chrysene	860	U	860	190
53-70-3	Dibenz(a,h)anthracene	860	U	860	150
132-64-9	Dibenzofuran	860	U	860	100
84-66-2	Diethyl phthalate	860	U	860	110
131-11-3	Dimethyl phthalate	860	U	860	100
84-74-2	Di-n-butyl phthalate	860	U	860	150
117-84-0	Di-n-octyl phthalate	860	U	860	100
206-44-0	Fluoranthene	150	J	860	91
86-73-7	Fluorene	860	U	860	100
118-74-1	Hexachlorobenzene	860	U	860	120
87-68-3	Hexachlorobutadiene	860	U	860	130
77-47-4	Hexachlorocyclopentadiene	860	U	860	120
67-72-1	Hexachloroethane	860	U	860	110
193-39-5	Indeno[1,2,3-cd]pyrene	860	U	860	110
78-59-1	Isophorone	860	U	860	180
91-20-3	Naphthalene	860	U	860	110
98-95-3	Nitrobenzene	860	U	860	96
621-64-7	N-Nitrosodi-n-propylamine	860	U	860	150
86-30-6	N-Nitrosodiphenylamine	860	U	860	700

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (10-12') | Lab Sample ID: 480-224566-2

Matrix: Solid | Lab File ID: X00000033824.d

Analysis Method: 8270D | Date Collected: 10/18/2024 09:40

Extract. Method: 3550C | Date Extracted: 10/22/2024 06:55

Sample wt/vol: 30.71(g) | Date Analyzed: 10/24/2024 11:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 3.8 % Solids: 96.2 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729559 | Units: ug/Kg

Preparation Batch No.: 729224 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	1700	U	1700	860
85-01-8	Phenanthrene	860	U	860	130
108-95-2	Phenol	860	U	860	130
129-00-0	Pyrene	140	J	860	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	54		26-143
321-60-8	2-Fluorobiphenyl (Surr)	89		50-121
367-12-4	2-Fluorophenol (Surr)	92		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	89		40-121
4165-62-2	Phenol-d5 (Surr)	92		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	97		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: X00000033825.d

Analysis Method: 8270D | Date Collected: 10/18/2024 15:00

Extract. Method: 3550C | Date Extracted: 10/22/2024 06:55

Sample wt/vol: 30.25(g) | Date Analyzed: 10/24/2024 12:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 4.7 % Solids: 95.3 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729559 | Units: ug/Kg

Preparation Batch No.: 729224 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	1000	U	1000	570	
95-95-4	2,4,5-Trichlorophenol	1800	U	1800	480	
88-06-2	2,4,6-Trichlorophenol	1800	U	1800	350	
120-83-2	2,4-Dichlorophenol	1800	U	1800	190	
105-67-9	2,4-Dimethylphenol	1800	U	1800	430	
51-28-5	2,4-Dinitrophenol	17000	U	17000	8200	
121-14-2	2,4-Dinitrotoluene	1800	U	1800	360	
606-20-2	2,6-Dinitrotoluene	1800	U	1800	210	
91-58-7	2-Chloronaphthalene	1800	U	1800	290	
95-57-8	2-Chlorophenol	3400	U	3400	320	
91-57-6	2-Methylnaphthalene	1800	U	1800	350	
95-48-7	2-Methylphenol	1800	U	1800	210	
88-74-4	2-Nitroaniline	3400	U	3400	260	UJ
88-75-5	2-Nitrophenol	1800	U	1800	500	
91-94-1	3,3'-Dichlorobenzidine	3400	U	3400	2100	
99-09-2	3-Nitroaniline	3400	U	3400	490	
534-52-1	4,6-Dinitro-2-methylphenol	3400	U	3400	1800	
101-55-3	4-Bromophenyl phenyl ether	1800	U	1800	250	
59-50-7	4-Chloro-3-methylphenol	1800	U	1800	440	
106-47-8	4-Chloroaniline	1800	U	1800	440	
7005-72-3	4-Chlorophenyl phenyl ether	1800	U	1800	220	
106-44-5	4-Methylphenol	3400	U	3400	210	
100-01-6	4-Nitroaniline	3400	U	3400	930	
100-02-7	4-Nitrophenol	3400	U	3400	1200	
83-32-9	Acenaphthene	1800	U	1800	260	
208-96-8	Acenaphthylene	1800	U	1800	230	
98-86-2	Acetophenone	1800	U	1800	240	
120-12-7	Anthracene	1800	U	1800	440	
1912-24-9	Atrazine	1800	U	1800	610	
100-52-7	Benzaldehyde	1800	U	1800	1400	
56-55-3	Benzo[a]anthracene	1800	U	1800	180	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: X00000033825.d

Analysis Method: 8270D | Date Collected: 10/18/2024 15:00

Extract. Method: 3550C | Date Extracted: 10/22/2024 06:55

Sample wt/vol: 30.25(g) | Date Analyzed: 10/24/2024 12:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 4.7 % Solids: 95.3 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729559 | Units: ug/Kg

Preparation Batch No.: 729224 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	1800	U	1800	260
205-99-2	Benzo[b]fluoranthene	1800	U	1800	280
191-24-2	Benzo[g,h,i]perylene	1800	U	1800	190
207-08-9	Benzo[k]fluoranthene	1800	U	1800	230
92-52-4	Biphenyl	1800	U	1800	260
108-60-1	bis (2-chloroisopropyl) ether	1800	U	1800	350
111-91-1	Bis(2-chloroethoxy)methane	1800	U	1800	370
111-44-4	Bis(2-chloroethyl)ether	1800	U	1800	230
117-81-7	Bis(2-ethylhexyl) phthalate	1800	U	1800	600
85-68-7	Butyl benzyl phthalate	1800		1800	290
105-60-2	Caprolactam	1800	U	1800	530
86-74-8	Carbazole	1800	U	1800	210
218-01-9	Chrysene	1800	U	1800	400
53-70-3	Dibenz(a,h)anthracene	1800	U	1800	310
132-64-9	Dibenzofuran	1800	U	1800	210
84-66-2	Diethyl phthalate	1800	U	1800	230
131-11-3	Dimethyl phthalate	1800	U	1800	210
84-74-2	Di-n-butyl phthalate	1800	U	1800	300
117-84-0	Di-n-octyl phthalate	1800	U	1800	210
206-44-0	Fluoranthene	1800	U	1800	190
86-73-7	Fluorene	1800	U	1800	210
118-74-1	Hexachlorobenzene	1800	U	1800	240
87-68-3	Hexachlorobutadiene	1800	U	1800	260
77-47-4	Hexachlorocyclopentadiene	1800	U	1800	240
67-72-1	Hexachloroethane	1800	U	1800	230
193-39-5	Indeno[1,2,3-cd]pyrene	1800	U	1800	220
78-59-1	Isophorone	1800	U	1800	370
91-20-3	Naphthalene	1800	U	1800	230
98-95-3	Nitrobenzene	1800	U	1800	200
621-64-7	N-Nitrosodi-n-propylamine	1800	U	1800	300
86-30-6	N-Nitrosodiphenylamine	1800	U	1800	1400

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: X00000033825.d

Analysis Method: 8270D | Date Collected: 10/18/2024 15:00

Extract. Method: 3550C | Date Extracted: 10/22/2024 06:55

Sample wt/vol: 30.25(g) | Date Analyzed: 10/24/2024 12:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 4.7 % Solids: 95.3 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 729559 | Units: ug/Kg

Preparation Batch No.: 729224 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	3400	U	3400	1800
85-01-8	Phenanthrene	1800	U	1800	260
108-95-2	Phenol	1800	U	1800	270
129-00-0	Pyrene	1800	U	1800	210

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	25	S1-	26-143
321-60-8	2-Fluorobiphenyl (Surr)	85		50-121
367-12-4	2-Fluorophenol (Surr)	66		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	88		40-121
4165-62-2	Phenol-d5 (Surr)	83		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	87		46-143

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: 25_84-291.D

Analysis Method: 8081B | Date Collected: 10/18/2024 08:40

Extraction Method: 3550C | Date Extracted: 10/22/2024 17:45

Sample wt/vol: 30.24(g) | Date Analyzed: 10/23/2024 12:43

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 0.9 % Solids: 99.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729407 | Units: ug/Kg

Preparation Batch No.: 729364 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	1.7	U	1.7	0.32	
72-55-9	4,4'-DDE	1.7	U	1.7	0.35	
50-29-3	4,4'-DDT	1.7	U	1.7	0.39	
309-00-2	Aldrin	1.7	U	1.7	0.41	
319-84-6	alpha-BHC	1.7	U	1.7	0.30	
319-85-7	beta-BHC	1.7	U	1.7	0.30	
5103-71-9	Chlordane (.alpha.)	1.7	U	1.7	0.83	
319-86-8	delta-BHC	0.64	J	1.7	0.31	J
60-57-1	Dieldrin	1.7	U	1.7	0.40	
959-98-8	Endosulfan I	1.7	U	1.7	0.32	
33213-65-9	Endosulfan II	1.7	U	1.7	0.30	
1031-07-8	Endosulfan sulfate	1.7	U	1.7	0.31	
72-20-8	Endrin	1.7	U	1.7	0.33	
76-44-8	Heptachlor	1.7	U	1.7	0.36	
58-89-9	Lindane	1.7	U	1.7	0.31	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	56		45-120
877-09-8	Tetrachloro-m-xylene	66		30-124

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (10-12') | Lab Sample ID: 480-224566-2

Matrix: Solid | Lab File ID: 25_84-290.D

Analysis Method: 8081B | Date Collected: 10/18/2024 09:40

Extraction Method: 3550C | Date Extracted: 10/22/2024 17:45

Sample wt/vol: 30.19(g) | Date Analyzed: 10/23/2024 12:23

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 3.8 % Solids: 96.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729407 | Units: ug/Kg

Preparation Batch No.: 729364 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	35	U	35	6.7
72-55-9	4,4'-DDE	35	U	35	7.2
50-29-3	4,4'-DDT	35	U	35	8.1
309-00-2	Aldrin	35	U	35	8.5
319-84-6	alpha-BHC	35	U	35	6.2
319-85-7	beta-BHC	35	U	35	6.2
5103-71-9	Chlordane (.alpha.)	35	U	35	17
319-86-8	delta-BHC	35	U	35	6.4
60-57-1	Dieldrin	35	U	35	8.3
959-98-8	Endosulfan I	35	U	35	6.6
33213-65-9	Endosulfan II	35	U	35	6.2
1031-07-8	Endosulfan sulfate	35	U	35	6.4
72-20-8	Endrin	35	U	35	6.8
76-44-8	Heptachlor	35	U	35	7.5
58-89-9	Lindane	35	U	35	6.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	0	S1-	45-120
877-09-8	Tetrachloro-m-xylene	0	S1-	30-124

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: 25_84-289.D

Analysis Method: 8081B | Date Collected: 10/18/2024 15:00

Extraction Method: 3550C | Date Extracted: 10/22/2024 17:45

Sample wt/vol: 30.27(g) | Date Analyzed: 10/23/2024 12:04

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 4.7 % Solids: 95.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729407 | Units: ug/Kg

Preparation Batch No.: 729364 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	35	U	35	6.7	
72-55-9	4,4'-DDE	35	U	35	7.3	
50-29-3	4,4'-DDT	35 UJ 11	~~U~~ B	35	8.1	UJ
309-00-2	Aldrin	35	U F2	35	8.5	
319-84-6	alpha-BHC	35	U F1 F2	35	6.2	
319-85-7	beta-BHC	35	U F1	35	6.2	
5103-71-9	Chlordane (.alpha.)	35	U F1	35	17	
319-86-8	delta-BHC	35	U F1	35	6.4	
60-57-1	Dieldrin	35	U F1	35	8.3	
959-98-8	Endosulfan I	35	U F1	35	6.7	
33213-65-9	Endosulfan II	35	U	35	6.2	
1031-07-8	Endosulfan sulfate	35	U F1	35	6.5	
72-20-8	Endrin	35	U F1	35	6.9	
76-44-8	Heptachlor	35	U F1	35	7.5	
58-89-9	Lindane	35	U	35	6.4	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	0	S1-	45-120
877-09-8	Tetrachloro-m-xylene	0	S1-	30-124

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Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

No data validation qualifiers were added

MKP 12/9/2024

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: 60000880.D

Analysis Method: 8082A | Date Collected: 10/18/2024 08:40

Extraction Method: 3550C | Date Extracted: 10/22/2024 17:48

Sample wt/vol: 2.34(g) | Date Analyzed: 10/23/2024 19:19

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 0.9 % Solids: 99.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729420 | Units: mg/Kg

Preparation Batch No.: 729367 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.22	U	0.22	0.042
11104-28-2	PCB-1221	0.22	U	0.22	0.042
11141-16-5	PCB-1232	0.22	U	0.22	0.042
53469-21-9	PCB-1242	0.22	U	0.22	0.042
12672-29-6	PCB-1248	0.22	U	0.22	0.042
11097-69-1	PCB-1254	0.22	U	0.22	0.10
11096-82-5	PCB-1260	0.22	U	0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	88		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (10-12') | Lab Sample ID: 480-224566-2

Matrix: Solid | Lab File ID: 60000879.D

Analysis Method: 8082A | Date Collected: 10/18/2024 09:40

Extraction Method: 3550C | Date Extracted: 10/22/2024 17:48

Sample wt/vol: 2.32(g) | Date Analyzed: 10/23/2024 19:01

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 3.8 % Solids: 96.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729420 | Units: mg/Kg

Preparation Batch No.: 729367 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.22	U	0.22	0.044
11104-28-2	PCB-1221	0.22	U	0.22	0.044
11141-16-5	PCB-1232	0.22	U	0.22	0.044
53469-21-9	PCB-1242	0.22	U	0.22	0.044
12672-29-6	PCB-1248	0.22	U	0.22	0.044
11097-69-1	PCB-1254	0.22	U	0.22	0.10
11096-82-5	PCB-1260	0.22	U	0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	92		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: 60000878.D

Analysis Method: 8082A | Date Collected: 10/18/2024 15:00

Extraction Method: 3550C | Date Extracted: 10/22/2024 17:48

Sample wt/vol: 2.35(g) | Date Analyzed: 10/23/2024 18:42

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 4.7 % Solids: 95.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729420 | Units: mg/Kg

Preparation Batch No.: 729367 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.22	U	0.22	0.044
11104-28-2	PCB-1221	0.22	U	0.22	0.044
11141-16-5	PCB-1232	0.22	U	0.22	0.044
53469-21-9	PCB-1242	0.22	U	0.22	0.044
12672-29-6	PCB-1248	0.22	U	0.22	0.044
11097-69-1	PCB-1254	0.22	U	0.22	0.10
11096-82-5	PCB-1260	0.22	U	0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	98		60-154
2051-24-3	DCB Decachlorobiphenyl	88		65-174

Method 8151A

Herbicides (GC) by Method 8151A

No data validation qualifiers were added

MKP 12/9/2024

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: 2024-10-22 15-39-24-04-00-09.D

Analysis Method: 8151A | Date Collected: 10/18/2024 08:40

Extraction Method: 8151A | Date Extracted: 10/20/2024 07:03

Sample wt/vol: 15.63(g) | Date Analyzed: 10/22/2024 15:39

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 0.9 % Solids: 99.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729296 | Units: ug/Kg

Preparation Batch No.: 729003 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	32	U	32	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	68		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (10-12') | Lab Sample ID: 480-224566-2

Matrix: Solid | Lab File ID: 2024-10-22 15-57-51-04-00-10.D

Analysis Method: 8151A | Date Collected: 10/18/2024 09:40

Extraction Method: 8151A | Date Extracted: 10/20/2024 07:03

Sample wt/vol: 30.78(g) | Date Analyzed: 10/22/2024 15:57

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 3.8 % Solids: 96.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729296 | Units: ug/Kg

Preparation Batch No.: 729003 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	17	U	17	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	69		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: 2024-10-22 16-34-51-04-00-12.D

Analysis Method: 8151A | Date Collected: 10/18/2024 15:00

Extraction Method: 8151A | Date Extracted: 10/20/2024 07:03

Sample wt/vol: 30.46(g) | Date Analyzed: 10/22/2024 16:34

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 4.7 % Solids: 95.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729296 | Units: ug/Kg

Preparation Batch No.: 729003 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	17	U	17	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	59		28-129

1633

Per- and Polyfluoroalkyl Substances by LC/MS/MS

No data validation qualifiers were added

MKP 12/9/2024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: ICAL,27.d

Analysis Method: Draft-3 1633 | Date Collected: 10/18/2024 08:40

Extraction Method: 1633 Shake | Date Extracted: 10/25/2024 08:10

Sample wt/vol: 1.52(g) | Date Analyzed: 10/28/2024 17:01

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 0.9 % Solids: 99.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 632696 | Units: ug/Kg

Preparation Batch No.: 632409 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.66	U	0.66	0.17
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.33	U	0.33	0.083
307-24-4	Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.041
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.041
335-67-1	Perfluorooctanoic acid (PFOA)	0.058	J	0.17	0.041
375-95-1	Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.041
335-76-2	Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.041
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.041
307-55-1	Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.041
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.041
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.041
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.041
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.041
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.041
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.078	J	0.17	0.041
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.041
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.041
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.66	U	0.66	0.17
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.66	U	0.66	0.17
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.66	U	0.66	0.17
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.041
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.041
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.041
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.041

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: ICAL,27.d

Analysis Method: Draft-3 1633 | Date Collected: 10/18/2024 08:40

Extraction Method: 1633 Shake | Date Extracted: 10/25/2024 08:10

Sample wt/vol: 1.52(g) | Date Analyzed: 10/28/2024 17:01

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 0.9 % Solids: 99.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 632696 | Units: ug/Kg

Preparation Batch No.: 632409 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.041
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.41
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.41
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.66	U	0.66	0.17
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.66	U	0.66	0.17
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.33	U	0.33	0.083
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.33	U	0.33	0.083
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.66	U	0.66	0.17
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.66	U	0.66	0.17
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.33	U	0.33	0.083
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.83	U	0.83	0.21
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.1	U	4.1	1.0
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.1	U	4.1	1.0
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.041
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.33	U	0.33	0.083

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') | Lab Sample ID: 480-224566-1

Matrix: Solid | Lab File ID: ICAL,27.d

Analysis Method: Draft-3 1633 | Date Collected: 10/18/2024 08:40

Extraction Method: 1633 Shake | Date Extracted: 10/25/2024 08:10

Sample wt/vol: 1.52(g) | Date Analyzed: 10/28/2024 17:01

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 0.9 % Solids: 99.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 632696 | Units: ug/Kg

Preparation Batch No.: 632409 | Instrument ID: LCMS04

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	86.9		20-150
STL01893	13C5 PFPeA	87.1		20-150
STL02577	13C5 PFHxA	87.1		20-150
STL01892	13C4 PFHpA	86.7		20-150
STL01052	13C8 PFOA	88.7		20-150
STL02578	13C9 PFNA	86.4		20-150
STL02579	13C6 PFDA	86.8		20-150
STL02580	13C7 PFUnA	82.5		20-150
STL02116	13C2 PFTeDA	63.8		20-150
STL02337	13C3 PFBS	86.2		20-150
STL02581	13C3 PFHxS	87.5		20-150
STL01054	13C8 PFOS	85.5		20-150
STL01056	13C8 PFOSA	85.1		20-150
STL02118	d3-NMeFOSAA	82.3		20-150
STL02117	d5-NEtFOSAA	78.7		20-150
STL02395	M2-4:2 FTS	98.4		20-150
STL02279	M2-6:2 FTS	95.1		20-150
STL02280	M2-8:2 FTS	94.5		20-150
STL02255	13C3 HFPO-DA	92.1		20-150
STL02277	d7-N-MeFOSE-M	84.9		20-150
STL02278	d9-N-EtFOSE-M	78.7		20-150
STL02704	d5-NEtPFOSA	69.0		20-150
STL02705	D3-NMeFOSA	71.4		20-150
STL02703	13C2-PFDoDA	79.1		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: ICAL,28.d

Analysis Method: Draft-3 1633 | Date Collected: 10/18/2024 15:00

Extraction Method: 1633 Shake | Date Extracted: 10/25/2024 08:10

Sample wt/vol: 1.49(g) | Date Analyzed: 10/28/2024 17:17

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 4.7 % Solids: 95.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 632696 | Units: ug/Kg

Preparation Batch No.: 632409 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.70	U	0.70	0.18
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.088
307-24-4	Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.044
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.044
335-67-1	Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.044
375-95-1	Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.044
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.044
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.044
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.044
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.044
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.044
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.044
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.044
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.044
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.044
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.045	J	0.18	0.044
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.044
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.044
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.70	U	0.70	0.18
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.70	U	0.70	0.18
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.70	U	0.70	0.18
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.044
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.044
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.044
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.044

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: ICAL,28.d

Analysis Method: Draft-3 1633 | Date Collected: 10/18/2024 15:00

Extraction Method: 1633 Shake | Date Extracted: 10/25/2024 08:10

Sample wt/vol: 1.49(g) | Date Analyzed: 10/28/2024 17:17

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 4.7 % Solids: 95.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 632696 | Units: ug/Kg

Preparation Batch No.: 632409 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.082	J	0.18	0.044
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.44
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.44
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.70	U	0.70	0.18
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.70	U	0.70	0.18
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.088
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.088
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.70	U	0.70	0.18
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.70	U	0.70	0.18
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.088
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.88	U	0.88	0.22
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	4.4	1.1
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.4	U	4.4	1.1
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.044
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.088

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') | Lab Sample ID: 480-224566-3

Matrix: Solid | Lab File ID: ICAL,28.d

Analysis Method: Draft-3 1633 | Date Collected: 10/18/2024 15:00

Extraction Method: 1633 Shake | Date Extracted: 10/25/2024 08:10

Sample wt/vol: 1.49(g) | Date Analyzed: 10/28/2024 17:17

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 4.7 % Solids: 95.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 632696 | Units: ug/Kg

Preparation Batch No.: 632409 | Instrument ID: LCMS04

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	90.1		20-150
STL01893	13C5 PFPeA	93.1		20-150
STL02577	13C5 PFHxA	94.1		20-150
STL01892	13C4 PFHpA	94.6		20-150
STL01052	13C8 PFOA	90.8		20-150
STL02578	13C9 PFNA	88.2		20-150
STL02579	13C6 PFDA	88.5		20-150
STL02580	13C7 PFUnA	82.2		20-150
STL02116	13C2 PFTeDA	68.2		20-150
STL02337	13C3 PFBS	89.6		20-150
STL02581	13C3 PFHxS	88.9		20-150
STL01054	13C8 PFOS	88.1		20-150
STL01056	13C8 PFOSA	86.9		20-150
STL02118	d3-NMeFOSAA	79.2		20-150
STL02117	d5-NEtFOSAA	78.8		20-150
STL02395	M2-4:2 FTS	106		20-150
STL02279	M2-6:2 FTS	102		20-150
STL02280	M2-8:2 FTS	103		20-150
STL02255	13C3 HFPO-DA	98.2		20-150
STL02277	d7-N-MeFOSE-M	84.6		20-150
STL02278	d9-N-EtFOSE-M	78.3		20-150
STL02704	d5-NEtPFOSA	67.6		20-150
STL02705	D3-NMeFOSA	69.4		20-150
STL02703	13C2-PFDoDA	76.7		20-150

METALS

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224566-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
12I-MW-4 (1-3')	480-224566-1
12I-MW-4 (10-12')	480-224566-2
12I-MW-2 (2-4')	480-224566-3

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1
Lab Name: Eurofins Buffalo
Job No.: 480-224566-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/18/2024 08:40
Reporting Basis: DRY
Date Received: 10/18/2024 16:20
Preparation Batch Number: 729028
Instrument ID: ICAP3
% Solids: 99.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3220	10.4	9.0	mg/Kg			1	6010C
7440-36-0	Antimony	15.6	15.6	0.55	mg/Kg	U		1	6010C
7440-38-2	Arsenic	2.3	2.1	0.92	mg/Kg			1	6010C
7440-39-3	Barium	15.6	0.52	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.17	0.21	0.042	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.51	0.21	0.073	mg/Kg			1	6010C
7440-70-2	Calcium	178000	260	140	mg/Kg			5	6010C
7440-47-3	Chromium	5.2	0.52	0.37	mg/Kg			1	6010C
7440-48-4	Cobalt	1.5	0.52	0.10	mg/Kg			1	6010C
7440-50-8	Copper	5.4	1.0	0.59	mg/Kg			1	6010C
7439-89-6	Iron	4960	10.4	8.8	mg/Kg			1	6010C
7439-92-1	Lead	66.4	1.0	0.48	mg/Kg			1	6010C
7439-95-4	Magnesium	99100	104	44.1	mg/Kg			5	6010C
7439-96-5	Manganese	372	1.0	0.29	mg/Kg			1	6010C
7440-02-0	Nickel	5.1	5.2	0.26	mg/Kg	J		1	6010C
7440-09-7	Potassium	1710	31.2	25.2	mg/Kg			1	6010C
7782-49-2	Selenium	4.2	4.2	0.83	mg/Kg	U		1	6010C
7440-22-4	Silver	0.62	0.62	0.21	mg/Kg	U		1	6010C
7440-23-5	Sodium	256	146	63.8	mg/Kg			1	6010C
7440-28-0	Thallium	6.2	6.2	0.79	mg/Kg	U		1	6010C
7440-62-2	Vanadium	6.7	0.52	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	147	2.1	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.014	0.019	0.0045	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 12I-MW-4 (10-12')
Lab Sample ID: 480-224566-2
Lab Name: Eurofins Buffalo
Job No.: 480-224566-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/18/2024 09:40
Reporting Basis: DRY
Date Received: 10/18/2024 16:20
Preparation Batch Number: 729028
Instrument ID: ICAP3
% Solids: 96.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4830	10.8	9.3	mg/Kg			1	6010C
7440-36-0	Antimony	16.2	16.2	0.57	mg/Kg	U		1	6010C
7440-38-2	Arsenic	2.7	2.2	0.95	mg/Kg			1	6010C
7440-39-3	Barium	31.0	0.54	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.21	0.22	0.043	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.72	0.22	0.076	mg/Kg			1	6010C
7440-70-2	Calcium	160000	271	146	mg/Kg			5	6010C
7440-47-3	Chromium	10.1	0.54	0.39	mg/Kg			1	6010C
7440-48-4	Cobalt	2.4	0.54	0.11	mg/Kg			1	6010C
7440-50-8	Copper	9.6	1.1	0.62	mg/Kg			1	6010C
7439-89-6	Iron	6520	10.8	9.2	mg/Kg			1	6010C
7439-92-1	Lead	76.9	1.1	0.50	mg/Kg			1	6010C
7439-95-4	Magnesium	75600	108	45.9	mg/Kg			5	6010C
7439-96-5	Manganese	470	1.1	0.30	mg/Kg			1	6010C
7440-02-0	Nickel	7.0	5.4	0.27	mg/Kg			1	6010C
7440-09-7	Potassium	1970	32.5	26.2	mg/Kg			1	6010C
7782-49-2	Selenium	4.3	4.3	0.87	mg/Kg	U		1	6010C
7440-22-4	Silver	0.65	0.65	0.22	mg/Kg	U		1	6010C
7440-23-5	Sodium	340	152	66.4	mg/Kg			1	6010C
7440-28-0	Thallium	6.5	6.5	0.82	mg/Kg	U		1	6010C
7440-62-2	Vanadium	8.1	0.54	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	175	2.2	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.041	0.021	0.0048	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 12I-MW-2 (2-4') Lab Sample ID: 480-224566-3

Lab Name: Eurofins Buffalo Job No.: 480-224566-1

SDG ID.:

Matrix: Solid Date Sampled: 10/18/2024 15:00

Reporting Basis: DRY Date Received: 10/18/2024 16:20

Preparation Batch Number: 729028 Instrument ID: ICAP3

% Solids: 95.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7429-90-5	Aluminum	5260	10.5	9.1	mg/Kg			1	6010C	
7440-36-0	Antimony	15.8	15.8	0.56	mg/Kg	U	F1	1	6010C	J
7440-38-2	Arsenic	4.3	2.1	0.93	mg/Kg		F1	1	6010C	J
7440-39-3	Barium	25.8	0.53	0.15	mg/Kg		F1	1	6010C	J
7440-41-7	Beryllium	0.23	0.21	0.042	mg/Kg		F1	1	6010C	J
7440-43-9	Cadmium	2.9	0.21	0.074	mg/Kg		F1	1	6010C	J
7440-70-2	Calcium	140000	263	142	mg/Kg			5	6010C	J
7440-47-3	Chromium	7.1	0.53	0.38	mg/Kg		F1	1	6010C	J
7440-48-4	Cobalt	2.7	0.53	0.11	mg/Kg		F1	1	6010C	J
7440-50-8	Copper	8.3	1.1	0.60	mg/Kg		F1	1	6010C	J
7439-89-6	Iron	9090	10.5	8.9	mg/Kg			1	6010C	J
7439-92-1	Lead	47.9	1.1	0.48	mg/Kg		F1	1	6010C	J
7439-95-4	Magnesium	64900	105	44.6	mg/Kg			5	6010C	
7439-96-5	Manganese	444	1.1	0.29	mg/Kg			1	6010C	J
7440-02-0	Nickel	7.9	5.3	0.26	mg/Kg		F1	1	6010C	J
7440-09-7	Potassium	1910	31.6	25.5	mg/Kg		F1	1	6010C	J
7782-49-2	Selenium	4.2	4.2	0.84	mg/Kg	U	F1	1	6010C	UJ
7440-22-4	Silver	0.21	0.63	0.21	mg/Kg	J	F1	1	6010C	J
7440-23-5	Sodium	241	147	64.5	mg/Kg		F1	1	6010C	J
7440-28-0	Thallium	6.3	6.3	0.80	mg/Kg	U	F1	1	6010C	UJ
7440-62-2	Vanadium	8.0	0.53	0.14	mg/Kg		F1	1	6010C	J
7440-66-6	Zinc	643	2.1	1.1	mg/Kg			1	6010C	
7439-97-6	Mercury	0.026	0.021	0.0047	mg/Kg			1	7471B	J

MKP 12/9/2024

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224566-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
12I-MW-4 (1-3')	480-224566-1
12I-MW-4 (10-12')	480-224566-2
12I-MW-2 (2-4')	480-224566-3

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job Number: 480-224566-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
12I-MW-4 (1-3')	480-224566-1
12I-MW-4 (10-12')	480-224566-2
12I-MW-2 (2-4')	480-224566-3

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1
Lab Name: Eurofins Buffalo
Job No.: 480-224566-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/18/2024 08:40
Reporting Basis: DRY
Date Received: 10/18/2024 16:20
Preparation Batch Number: 730702
Instrument ID: SEAL 1
% Solids: 99.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
57-12-5	Cyanide, Total	0.93	0.93	0.45	mg/Kg	U	F1	1	9012B	UJ

MKP 12/9/2024

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 12I-MW-4 (10-12')
Lab Sample ID: 480-224566-2
Lab Name: Eurofins Buffalo
Job No.: 480-224566-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/18/2024 09:40
Reporting Basis: DRY
Date Received: 10/18/2024 16:20
Preparation Batch Number: 729538
Instrument ID: SEAL 1
% Solids: 96.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.0	1.0	0.50	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 12I-MW-2 (2-4')
Lab Sample ID: 480-224566-3
Lab Name: Eurofins Buffalo
Job No.: 480-224566-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/18/2024 15:00
Reporting Basis: DRY
Date Received: 10/18/2024 16:20
Preparation Batch Number: 729538
Instrument ID: SEAL 1
% Solids: 95.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.0	1.0	0.48	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 12I-MW-4 (1-3')
Lab Sample ID: 480-224566-1
Lab Name: Eurofins Edison
Job No.: 480-224566-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/18/2024 08:40
Reporting Basis: DRY
Date Received: 10/18/2024 16:20
Preparation Batch Number: 1006265
Instrument ID: WetHexSpec
% Solids: 99.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.0	2.0	0.84	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 12I-MW-4 (10-12')
Lab Sample ID: 480-224566-2
Lab Name: Eurofins Edison
Job No.: 480-224566-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/18/2024 09:40
Reporting Basis: DRY
Date Received: 10/18/2024 16:20
Preparation Batch Number: 1006265
Instrument ID: WetHexSpec
% Solids: 96.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.0	2.0	0.86	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 12I-MW-2 (2-4')
Lab Sample ID: 480-224566-3
Lab Name: Eurofins Edison
Job No.: 480-224566-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/18/2024 15:00
Reporting Basis: DRY
Date Received: 10/18/2024 16:20
Preparation Batch Number: 1006265
Instrument ID: WetHexSpec
% Solids: 95.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.0	2.0	0.87	mg/Kg	U		1	7196A

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: Jacob COX
Company: BE3 (Bryders Eng.)
Address: 960 Busti Ave
City: Buffalo
State, Zip: NY, 14213
Phone: 716-249-6880
Email: JCOX@BE3corp.com

Sampler: Jacob COX
Phone: 716-418-0792
Lab PM: J. Beninati
E-Mail: John.Beninati@eurofinsus.com
Due Date Requested:
TAT Requested (days): Standard
PO #:
WO #:
SSOW#:
Site:

Carrier Tracking No(s):
State of Origin:
Accreditations Required (See note):

COC No:
Page:
Job #:

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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 TCL VOC + TICs	6010C, 7471B, 8081B, 8082A	8151A, 8270D	7196A, 9012B	1633 - final 1633	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
RI-MW-4 (1-3')	10-18-24	8:40AM	G				X	X	X	X	X		Added Hex Chrom. + Cyanide
RI-MW-4 (10-12')	10-18-24	9:40AM	G				X	X	X	X			
RI-MW-2 (2-4')	10-18-24	3:00PM	G				X	X	X	X	X		RI-MW-4 (10-12') - No PFAS

480-224566 Chain of Custody

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
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:
Date:
Time:
Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Joseph Stenger	10-18-24 @ 4:20pm	BE3	Received by:	10-18-24 1620	TAL B
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: 5.1 IR#5 ICE

Ver: 06/08/2021

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-89952.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-224566-1
Address: 180 S. Van Buren Avenue, ,	Due Date Requested: 10/31/2024			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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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:						P81-9
12I-MW-4 (1-3') (480-224566-1)	10/18/24	08:40 Eastern	G	Solid			X	1	
12I-MW-2 (2-4') (480-224566-3)	10/18/24	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 *Unconfirmed*	***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) 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
MS	10-22-24 1600		JESSE MOROSKO	10/23/24 0945	GSTM
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:

Appendix B

Laboratory QC Documentation

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224566-1

SDG No.:

Lab Sample ID: CCVIS 480-729066/4 Calibration Date: 10/20/2024 18:54

Instrument ID: HP5977M Calib Start Date: 08/12/2024 23:40

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 08/13/2024 02:04

Lab File ID: M16166.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Ave	1.713	1.861	0.1000	54.3	50.0	8.6	50.0	
Chloromethane	Ave	1.928	2.369	0.1000	61.4	50.0	22.9*	20.0	
Vinyl chloride	Ave	1.421	1.748	0.1000	61.5	50.0	23.0*	20.0	
Butadiene	Ave	1.543	2.006		65.0	50.0	30.0*	20.0	NT
Bromomethane	Ave	0.8919	0.999	0.1000	56.0	50.0	12.0	50.0	
Chloroethane	Ave	0.8672	1.105	0.1000	63.7	50.0	27.4	50.0	
Trichlorofluoromethane	Ave	1.730	2.107	0.1000	60.9	50.0	21.8*	20.0	
Dichlorofluoromethane	Ave	2.295	2.737		59.6	50.0	19.3	20.0	
Ethyl ether	Ave	1.187	1.275		53.7	50.0	7.4	20.0	
Acrolein	Ave	0.2021	0.1731		214	250	-14.4	50.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.118	1.242	0.1000	55.6	50.0	11.1	20.0	
1,1-Dichloroethene	Ave	0.9599	1.108	0.1000	57.7	50.0	15.4	20.0	
Acetone	Ave	0.5032	0.5343	0.1000	265	250	6.2	50.0	
Iodomethane	Ave	1.937	1.982		51.1	50.0	2.3	20.0	
Carbon disulfide	Ave	3.385	3.710	0.1000	54.8	50.0	9.6	20.0	
Allyl chloride	Ave	1.971	2.334		59.2	50.0	18.4	20.0	
Methyl acetate	Ave	1.061	1.113	0.1000	105	100	4.9	50.0	
Methylene Chloride	Lin1		1.335	0.1000	50.4	50.0	0.7	20.0	
2-Methyl-2-propanol	Ave	0.1933	0.1637		423	500	-15.3	50.0	
Methyl tert-butyl ether	Ave	3.729	3.637	0.1000	48.8	50.0	-2.5	20.0	
trans-1,2-Dichloroethene	Ave	1.152	1.303	0.1000	56.6	50.0	13.1	20.0	
Acrylonitrile	Ave	0.5498	0.5801		528	500	5.5	20.0	
Hexane	Ave	1.843	2.291		62.2	50.0	24.3*	20.0	NT
1,1-Dichloroethane	Ave	2.176	2.481	0.2000	57.0	50.0	14.0	20.0	
Vinyl acetate	Ave	2.551	2.737		107	100	7.3	20.0	
2,2-Dichloropropane	Ave	1.314	1.364		51.9	50.0	3.9	20.0	
cis-1,2-Dichloroethene	Ave	1.322	1.388	0.1000	52.5	50.0	5.0	20.0	
2-Butanone (MEK)	Ave	0.6628	0.7305	0.1000	276	250	10.2	20.0	
Chlorobromomethane	Ave	0.6993	0.7006		50.1	50.0	0.2	20.0	
Tetrahydrofuran	Ave	0.4504	0.4642		103	100	3.1	20.0	
Chloroform	Ave	2.170	2.288	0.2000	52.7	50.0	5.4	20.0	
1,1,1-Trichloroethane	Ave	1.634	1.839	0.1000	56.3	50.0	12.5	20.0	
Cyclohexane	Ave	2.234	2.773	0.1000	62.1	50.0	24.2*	20.0	
Carbon tetrachloride	Ave	1.408	1.543	0.1000	54.8	50.0	9.6	20.0	
1,1-Dichloropropene	Ave	1.432	1.709		59.7	50.0	19.4	20.0	
Benzene	Ave	4.353	4.785	0.5000	55.0	50.0	9.9	20.0	
Isobutyl alcohol	Ave	0.0714	0.0647		1130	1250	-9.4	50.0	
1,2-Dichloroethane	Ave	1.711	1.793	0.1000	52.4	50.0	4.8	20.0	
n-Heptane	Ave	1.792	2.402		67.0	50.0	34.1*	20.0	NT
Trichloroethene	Ave	1.132	1.267	0.2000	55.9	50.0	11.9	20.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-729063/2-A

Matrix: Solid | Lab File ID: M16170.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 10/20/2024 20:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 729066 | Units: ug/Kg

Preparation Batch No.: 729063 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.61
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.39
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.25
78-87-5	1,2-Dichloropropane	5.0	U	5.0	2.5
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.26
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.70
78-93-3	2-Butanone (MEK)	25	U	25	1.8
591-78-6	2-Hexanone	25	U	25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	1.6
67-64-1	Acetone	25	U	25	4.2
71-43-2	Benzene	5.0	U	5.0	0.25
75-27-4	Bromodichloromethane	5.0	U	5.0	0.67
75-25-2	Bromoform	5.0	U	5.0	2.5
74-83-9	Bromomethane	5.0	U	5.0	0.45
75-15-0	Carbon disulfide	5.0	U	5.0	2.5
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.48
108-90-7	Chlorobenzene	5.0	U	5.0	0.66
124-48-1	Dibromochloromethane	5.0	U	5.0	0.64
75-00-3	Chloroethane	5.0	U	5.0	1.1
67-66-3	Chloroform	0.465	U	5.0	0.31
74-87-3	Chloromethane	5.0	U	5.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.72
110-82-7	Cyclohexane	5.0	U	5.0	0.70
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	0.41

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Lab Sample ID: CCVIS 480-729559/3 | Calibration Date: 10/24/2024 08:15

Instrument ID: HP5973X | Calib Start Date: 10/10/2024 14:18

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 17:13

Lab File ID: X00000033815.d | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.424	1.483	0.0100	41700	40000	4.1	20.0
2-Chloronaphthalene	Ave	1.129	1.172	0.8000	41500	40000	3.8	20.0
2-Nitroaniline	Ave	0.2912	0.3574	0.0100	49100	40000	22.8*	20.0
Dimethyl phthalate	Ave	1.240	1.323	0.0100	42700	40000	6.7	20.0
1,3-Dinitrobenzene	Lin2		0.1242	0.0100	40900	40000	2.3	20.0
2,6-Dinitrotoluene	Lin2		0.3179	0.2000	42600	40000	6.4	20.0
Acenaphthylene	Ave	1.732	1.854	0.9000	42800	40000	7.0	20.0
3-Nitroaniline	Lin2		0.3560	0.0100	42800	40000	7.0	20.0
Acenaphthene	Ave	1.160	1.183	0.9000	40800	40000	2.0	20.0
2,4-Dinitrophenol	Lin2		0.1715	0.0100	88000	80000	10.1	20.0
4-Nitrophenol	Lin2		0.1847	0.0100	88100	80000	10.2	20.0
Dibenzofuran	Ave	1.603	1.605	0.8000	40100	40000	0.2	20.0
2,4-Dinitrotoluene	Lin2		0.4322	0.2000	43000	40000	7.6	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.3072	0.0100	42200	40000	5.5	20.0
Diethyl phthalate	Ave	1.219	1.320	0.0100	43300	40000	8.3	20.0
Hexadecane	Lin2		0.8294	0.0100	46600	40000	16.4	20.0
Fluorene	Ave	1.298	1.338	0.9000	41200	40000	3.0	20.0
4-Chlorophenyl phenyl ether	Ave	0.6376	0.6498	0.4000	40800	40000	1.9	20.0
4-Nitroaniline	Lin2		0.3317	0.0100	40200	40000	0.5	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1461	0.0100	89600	80000	12.1	20.0
Diphenylamine	Ave	0.6101	0.6339	0.0100	35500	34200	3.9	20.0
N-Nitrosodiphenylamine	Ave	0.5217	0.5420	0.0100	41600	40000	3.9	20.0
1,2-Diphenylhydrazine	Ave	0.7013	0.7975	0.0100	45500	40000	13.7	20.0
trans-Azobenzene	Ave	0.7013	0.7975	0.0100	45500	40000	13.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2076	0.2225	0.1000	42900	40000	7.2	20.0
Hexachlorobenzene	Ave	0.2389	0.2531	0.1000	42400	40000	6.0	20.0
Atrazine	Lin2		0.3891	0.0100	45000	40000	12.4	20.0
Pentachlorophenol	Lin2		0.1419	0.0500	85200	80000	6.5	50.0
n-Octadecane	Lin2		0.4819	0.0100	47200	40000	18.0	20.0
Phenanthrene	Lin2		1.078	0.7000	41200	40000	3.0	20.0
Anthracene	Ave	1.073	1.112	0.7000	41500	40000	3.7	20.0
Carbazole	Ave	0.9349	0.9762	0.0100	41800	40000	4.4	20.0
Di-n-butyl phthalate	Lin2		1.260	0.0100	44200	40000	10.6	20.0
Fluoranthene	Ave	1.095	1.162	0.6000	42400	40000	6.1	20.0
Benzidine	Lin2		0.9295	0.0100	82400	80000	3.0	50.0
Pyrene	Ave	1.271	1.271	0.6000	40000	40000	0.0	20.0
Butyl benzyl phthalate	Lin2		0.6013	0.0100	43200	40000	8.1	20.0
3,3'-Dichlorobenzidine	Lin2		0.6256	0.0100	84700	80000	5.8	50.0
Benzo[a]anthracene	Lin2		1.296	0.8000	41800	40000	4.6	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.8825	0.0100	43100	40000	7.7	20.0
Chrysene	Lin2		1.177	0.7000	39100	40000	-2.3	20.0

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-4 (1-3') Lab Sample ID: 480-224566-1

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 10/23/2024 12:43 Date Analyzed (2): 10/23/2024 12:43

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
delta-BHC	1		3.00	2.98	3.04	0.64		31.8
	2		3.81	3.81	3.87	0.88		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224566-1

SDG No.:

Client Sample ID: 12I-MW-2 (2-4') Lab Sample ID: 480-224566-3

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 10/23/2024 12:04 Date Analyzed (2): 10/23/2024 12:04

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
4,4'-DDT	1		5.19	5.17	5.23	11		34.4
	2		6.28	6.26	6.32	15		

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224566-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-729364/1-A

Matrix: Solid | Lab File ID: 25_84-285.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 10/22/2024 17:45

Sample wt/vol: 30(g) | Date Analyzed: 10/23/2024 10:45

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 729407 | Units: ug/Kg

Preparation Batch No.: 729364 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	1.7	U	1.7	0.32
72-55-9	4,4'-DDE	1.7	U	1.7	0.35
50-29-3	4,4'-DDT	0.521	J	1.7	0.39
309-00-2	Aldrin	1.7	U	1.7	0.41
319-84-6	alpha-BHC	1.7	U	1.7	0.30
319-85-7	beta-BHC	1.7	U	1.7	0.30
5103-71-9	Chlordane (.alpha.)	1.7	U	1.7	0.83
319-86-8	delta-BHC	1.7	U	1.7	0.31
60-57-1	Dieldrin	1.7	U	1.7	0.40
959-98-8	Endosulfan I	1.7	U	1.7	0.32
33213-65-9	Endosulfan II	1.7	U	1.7	0.30
1031-07-8	Endosulfan sulfate	1.7	U	1.7	0.31
72-20-8	Endrin	1.7	U	1.7	0.33
76-44-8	Heptachlor	1.7	U	1.7	0.36
58-89-9	Lindane	1.7	U	1.7	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	59		45-120
877-09-8	Tetrachloro-m-xylene	67		30-124

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 12I-MW-2 (2-4') MS Lab ID: 480-224566-3 MS

Lab Name: Eurofins Buffalo Job No.: 480-224566-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 95.3

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	6234		5260		1110	88	75-125	4	6010C
Antimony	35.57		15.8	U	109	33	75-125	F1	6010C
Arsenic	94.80		4.3		218	42	75-125	F1	6010C
Barium	117.5		25.8		218	42	75-125	F1	6010C
Beryllium	46.53		0.23		109	43	75-125	F1	6010C
Cadmium	49.61		2.9		109	43	75-125	F1	6010C
Calcium	178000		140000		5440	691	75-125	4	6010C
Chromium	49.49		7.1		109	39	75-125	F1	6010C
Cobalt	56.04		2.7		109	49	75-125	F1	6010C
Copper	62.31		8.3		109	50	75-125	F1	6010C
Iron	7733		9670		1110	-175	75-125	4	6010C
Iron	6983		9090		1110	-190	75-125	4	6010C
Lead	107.5		47.9		109	55	75-125	F1	6010C
Magnesium	86880		64900		5440	404	75-125	4	6010C
Manganese	675.8		444		109	213	75-125	4	6010C
Nickel	61.19		7.9		109	49	75-125	F1	6010C
Potassium	5054		1910		5440	58	75-125	F1	6010C
Selenium	83.42		4.2	U	218	38	75-125	F1	6010C
Silver	5.26		0.21	J	10.9	46	75-125	F1	6010C
Sodium	2815		241		5440	47	75-125	F1	6010C
Sodium	2736		234		5440	46	75-125	F1	6010C
Thallium	109.7		6.3	U	218	50	75-125	F1	6010C
Vanadium	54.58		8.0		109	43	75-125	F1	6010C
Zinc	243.9		643		109	-367	75-125	4	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 12I-MW-2 (2-4') MSD Lab ID: 480-224566-3 MSD

Lab Name: Eurofins Buffalo Job No.: 480-224566-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 95.3

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	5863		1060	57	75-125	6	20	4	6010C
Antimony	31.58		104	30	75-125	12	20	F1	6010C
Arsenic	96.01		208	44	75-125	1	20	F1	6010C
Barium	121.2		208	46	75-125	3	20	F1	6010C
Beryllium	45.48		104	43	75-125	2	20	F1	6010C
Cadmium	49.78		104	45	75-125	0	20	F1	6010C
Calcium	188000		5210	915	75-125	5	20	4	6010C
Chromium	50.66		104	42	75-125	2	20	F1	6010C
Cobalt	57.28		104	52	75-125	2	20	F1	6010C
Copper	63.46		104	53	75-125	2	20	F1	6010C
Iron	8443		1060	-116	75-125	9	20	4	6010C
Iron	7699		1060	-131	75-125	10	20	4	6010C
Lead	119.1		104	68	75-125	10	20	F1	6010C
Magnesium	86760		5210	420	75-125	0	20	4	6010C
Manganese	603.2		104	152	75-125	11	20	4	6010C
Nickel	62.39		104	52	75-125	2	20	F1	6010C
Potassium	4819		5210	56	75-125	5	20	F1	6010C
Selenium	83.25		208	40	75-125	0	20	F1	6010C
Silver	5.40		10.4	50	75-125	3	20	F1	6010C
Sodium	2916		5210	51	75-125	4	20	F1	6010C
Sodium	2769		5210	49	75-125	1	20	F1	6010C
Thallium	110.0		208	53	75-125	0	20	F1	6010C
Vanadium	54.30		104	44	75-125	1	20	F1	6010C
Zinc	229.9		104	-397	75-125	6	20	4	6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 12I-MW-2 (2-4') PDS Lab ID: 480-224566-3 PDS

Lab Name: Eurofins Buffalo Job No.: 480-224566-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	6145		5260		1070	83	80-120		6010C
Antimony	87.54		15.8	U	105	83	80-120		6010C
Arsenic	179.6		4.3		210	83	80-120		6010C
Barium	205.6		25.8		210	85	80-120		6010C
Beryllium	87.81		0.23		105	83	80-120		6010C
Cadmium	95.72		2.9		105	88	80-120		6010C
Calcium	146500		140000		26300	23	80-120	W	6010C
Chromium	89.99		7.1		105	79	80-120	W	6010C
Cobalt	107.2		2.7		105	99	80-120		6010C
Copper	110.5		8.3		105	97	80-120		6010C
Iron	9764		9090		1070	63	80-120	W	6010C
Lead	158.2		47.9		105	105	80-120		6010C
Magnesium	71830		64900		26300	26	80-120	W	6010C
Manganese	520.3		444		105	72	80-120	W	6010C
Nickel	114.2		7.9		105	101	80-120		6010C
Potassium	6726		1910		5260	92	80-120		6010C
Selenium	159.5		4.2	U	210	76	80-120	W	6010C
Silver	9.40		0.21	J	10.5	87	80-120		6010C
Sodium	4935		241		5260	89	80-120		6010C
Sodium	4730		234		5260	85	80-120		6010C
Thallium	213.4		6.3	U	210	101	80-120		6010C
Vanadium	95.25		8.0		105	83	80-120		6010C
Zinc	697.1		643		105	52	80-120	W	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-224566-3

SDG No:

Lab Name: Eurofins Buffalo Job No: 480-224566-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	5260		5892		12	V	6010C
Antimony	15.8	U	78.9	U	NC		6010C
Arsenic	4.3		5.82	J	NC		6010C
Barium	25.8		29.67		15	V	6010C
Beryllium	0.23		0.285	J	NC		6010C
Cadmium	2.9		3.10		5.8		6010C
Calcium	114000		142100		25	V	6010C
Calcium	140000		137800		1.8		6010C
Chromium	7.1		8.25		NC		6010C
Cobalt	2.7		3.11		14	V	6010C
Copper	8.3		8.34		NC		6010C
Iron	9090		10720		18	V ^-	6010C
Lead	47.9		50.29		5.0		6010C
Magnesium	57400		63900		11	V	6010C
Magnesium	64900		61440		5.3		6010C
Manganese	444		526.0		18	V	6010C
Nickel	7.9		8.56	J	7.7		6010C
Potassium	1910		2099		9.9		6010C
Selenium	4.2	U	21.0	U	NC		6010C
Silver	0.21	J	3.2	U	NC		6010C
Sodium	241		736	U	NC		6010C
Sodium	234		736	U	NC		6010C
Thallium	6.3	U	31.6	U	NC		6010C
Vanadium	8.0		9.57		19	V	6010C
Zinc	643		833.7		30	V	6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224566-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730810	Date: 10/31/2024 18:15		Prep Batch: 730702		Date: 10/31/2024 14:10						
9012B	480-224566-1	Cyanide, Total	0.93	U	mg/Kg						F1
9012B	480-224566-1 MS	Cyanide, Total	1.0	U	mg/Kg	1.20	0	85-115			F1

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM V-IN

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

The NEST Site
333 1st Street
Niagara Falls, NY 14303
BCP Site # C932183

SDG: **J224894-1**
3 soil samples

Prepared for:

BE3 Corp.
960 Busti Avenue
Suite 150-B
Buffalo, NY 14213
Attention: Jacob Cox

December 2024

EDU *Environmental Data Usability* *10028 Deer Park Dr. Dansville, NY 14437* *585-991-9156*

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REVIEWER'S NARRATIVE
BE3 SDG J224894-1: The NEST Site – Niagara Falls, NY

The data associated with this Sample Delivery Group (SDG) J224894-1, analyzed by Eurofins Buffalo, Buffalo, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/10/2024

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	The NEST Site 333 1st Street Niagara Falls, NY 14303 BCP Site #: C932183
SAMPLING DATE:	October 28, 2024
SAMPLE TYPE:	3 soil samples
LABORATORY:	Eurofins Buffalo Buffalo, NY
SDG No.:	J224894-1

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 3 soil samples collected on October 28, 2024. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), Pesticides, PCBs, Herbicides, PFASs, Metals, TCN, and Hexavalent Chromium (Cr+6).

All analyses were performed by Eurofins Buffalo, Buffalo, NY and analyzed as SDG J224894-1. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-8. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG J224894-1, three samples were analyzed and results were reported for 612 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have rejected/qualified and the corresponding QC reasons.

NOTE: 1) As noted by the laboratory, the soil samples were not collected following SW846 5035A protocol. This adds an element of uncertainty to the analytical results for volatile organic analytes (VOAs). Although not specifically indicated on the final data sheets with a "J" flag, the VOA analytical results should be considered estimated, but usable.

Table 6-1 8260 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-2 (2-4') BH-4 (2-4') BH-7 (2-4')	Chloroform	CRQL-U	Analyte detected in method blank	Data changed to non-detect
BH-2 (2-4') BH-4 (2-4') BH-7 (2-4')	Methylene chloride	J detects	Analyte detected in method blank	Data are estimated
BH-2 (2-4') BH-4 (2-4') BH-7 (2-4')	Dichlorodifluoromethane	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-2 8270 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-2 (2-4') BH-4 (2-4') BH-7 (2-4'	2-Nitroanlinie Di-n-octyl phthalate	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-7 (2-4’	b-BHC 4,4’-DDT	J detects	% D for 2nd column confirmation > 25 %	Data are estimated
BH-2 (2-4’) BH-4 (2-4’) BH-7 (2-4’	a-BHC	CRQL-U	Analyte detected in method blank	Data changed to non-detect
BH-4 (2-4’) BH-7 (2-4’	Lindane	CRQL-U	Analyte detected in method blank	Data changed to non-detect
BH-7 (2-4’	d-BHC	CRQL-U	Analyte detected in method blank	Data changed to non-detect

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-5 Herbicides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-2 (2-4') BH-4 (2-4') BH-7 (2-4')	PFNS PFOSA	J detects UJ non-detects	LCCV % D > QC limit	Data are estimated

Table 6-7 Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-8 TCN and Cr+6

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo NY 14213

Generated 11/7/2024 1:12 PM

JOB DESCRIPTION

The Nest Site Analysis - Soil

JOB NUMBER

480-224894-1

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.

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Job Narrative
480-224894-1

Receipt
The samples were received on 10/28/2024 4:38 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BH-2 (2-4') (480-224894-1), BH-4 (2-4') (480-224894-2), BH-7 (2-4') (480-224894-3), (480-224894-A-1-B MS) and (480-224894-A-1-C MSD). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples required a dilution due to the nature of the sample matrix: BH-2 (2-4') (480-224894-1) and BH-7 (2-4') (480-224894-3). 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: The continuing calibration verification (CCV) associated with batch 480-730417 recovered above the upper control limit for 2-Nitroaniline and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH-2 (2-4') (480-224894-1), BH-4 (2-4') (480-224894-2) and BH-7 (2-4') (480-224894-3).

Method 8270D: The following samples were diluted due to the nature of the sample matrix: (480-224894-A-1-B MS) and (480-224894-A-1-C MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample: (480-224894-A-1-F MS) and (480-224894-A-1-G MSD). As such, surrogate and spike 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: BH-2 (2-4') (480-224894-1), BH-4 (2-4') (480-224894-2) and BH-7 (2-4') (480-224894-3). 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 480-730372 and analytical batch 480-730567 contained alpha-BHC, delta-BHC and Lindane 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: BH-2 (2-4') (480-224894-1), BH-4 (2-4') (480-224894-2) and BH-7 (2-4') (480-224894-3).

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

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

LCMS
Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-633666 recovered above the upper control limit for. The samples associated with this CCV were below the RL for the affected analytes; therefore, the data have been reported.

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

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

Organic Prep

Method 3550C: The following samples required a Florisil clean-up, via 3620C, to reduce matrix interferences: BH-2 (2-4') (480-224894-1), BH-4 (2-4') (480-224894-2), BH-7 (2-4') (480-224894-3), (480-224894-A-1 MS) and (480-224894-A-1 MSD).

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224894-1
Project/Site: The Nest Site Analysis - Soil

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224894-1	BH-2 (2-4')	Solid	10/28/24 10:30	10/28/24 16:38
480-224894-2	BH-4 (2-4')	Solid	10/28/24 12:30	10/28/24 16:38
480-224894-3	BH-7 (2-4')	Solid	10/28/24 12:00	10/28/24 16:38

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: R0692.D

Analysis Method: 8260C | Date Collected: 10/28/2024 10:30

Sample wt/vol: 5.09(g) | Date Analyzed: 10/30/2024 02:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 6.3 % Solids: 93.7 | Level: (low/med) Low

Analysis Batch No.: 730358 | Units: ug/Kg

Preparation Batch No.: 730356 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.2	U vs	5.2	0.38
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U vs	5.2	0.85
79-00-5	1,1,2-Trichloroethane	5.2	U vs	5.2	0.68
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U vs	5.2	1.2
75-34-3	1,1-Dichloroethane	5.2	U vs	5.2	0.64
75-35-4	1,1-Dichloroethene	5.2	U vs	5.2	0.64
120-82-1	1,2,4-Trichlorobenzene	5.2	U vs	5.2	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	5.2	U vs	5.2	2.6
95-50-1	1,2-Dichlorobenzene	5.2	U vs	5.2	0.41
107-06-2	1,2-Dichloroethane	5.2	U vs	5.2	0.26
78-87-5	1,2-Dichloropropane	5.2	U vs	5.2	2.6
541-73-1	1,3-Dichlorobenzene	5.2	U vs	5.2	0.27
106-46-7	1,4-Dichlorobenzene	5.2	U vs	5.2	0.73
78-93-3	2-Butanone (MEK)	26	U vs	26	1.9
591-78-6	2-Hexanone	26	U vs	26	2.6
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7
67-64-1	Acetone	5.1	J vs	26	4.4
71-43-2	Benzene	5.2	U vs	5.2	0.26
75-27-4	Bromodichloromethane	5.2	U vs	5.2	0.70
75-25-2	Bromoform	5.2	U vs	5.2	2.6
74-83-9	Bromomethane	5.2	U vs	5.2	0.47
75-15-0	Carbon disulfide	5.2	U vs	5.2	2.6
56-23-5	Carbon tetrachloride	5.2	U vs	5.2	0.51
108-90-7	Chlorobenzene	5.2	U vs	5.2	0.69
124-48-1	Dibromochloromethane	5.2	U vs	5.2	0.67
75-00-3	Chloroethane	5.2	U vs	5.2	1.2
67-66-3	Chloroform	0.72 5.2 UJ	J vs B	5.2	0.32 UJ
74-87-3	Chloromethane	5.2	U vs	5.2	0.32
156-59-2	cis-1,2-Dichloroethene	5.2	U vs	5.2	0.67
10061-01-5	cis-1,3-Dichloropropene	5.2	U vs	5.2	0.75
110-82-7	Cyclohexane	5.2	U vs	5.2	0.73

MKP 12/10/2024

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: R0692.D

Analysis Method: 8260C | Date Collected: 10/28/2024 10:30

Sample wt/vol: 5.09(g) | Date Analyzed: 10/30/2024 02:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 6.3 % Solids: 93.7 | Level: (low/med) Low

Analysis Batch No.: 730358 | Units: ug/Kg

Preparation Batch No.: 730356 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	5.2	U vs	5.2	0.43	UJ
100-41-4	Ethylbenzene	5.2	U vs	5.2	0.36	
106-93-4	1,2-Dibromoethane	5.2	U vs	5.2	0.67	
98-82-8	Isopropylbenzene	5.2	U vs	5.2	0.79	
79-20-9	Methyl acetate	26	U vs	26	3.2	
1634-04-4	Methyl tert-butyl ether	5.2	U vs	5.2	0.51	
108-87-2	Methylcyclohexane	5.2	U vs	5.2	0.80	
75-09-2	Methylene Chloride	13	vs B	5.2	2.4	J
100-42-5	Styrene	5.2	U vs	5.2	0.26	
127-18-4	Tetrachloroethene	2.5	J vs	5.2	0.70	
108-88-3	Toluene	0.92	J vs	5.2	0.40	
156-60-5	trans-1,2-Dichloroethene	5.2	U vs	5.2	0.54	
10061-02-6	trans-1,3-Dichloropropene	5.2	U vs	5.2	2.3	
79-01-6	Trichloroethene	1.9	J vs	5.2	1.2	
75-69-4	Trichlorofluoromethane	5.2	U vs	5.2	0.50	
75-01-4	Vinyl chloride	5.2	U vs	5.2	0.64	
1330-20-7	Xylenes, Total	10	U vs	10	0.88	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	112		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-126
460-00-4	4-Bromofluorobenzene (Surr)	87		72-126
1868-53-7	Dibromofluoromethane (Surr)	100		60-140

MKP 12/10/2024

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: R0692.D

Analysis Method: 8260C | Date Collected: 10/28/2024 10:30

Sample wt/vol: 5.09(g) | Date Analyzed: 10/30/2024 02:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 6.3 % Solids: 93.7 | Level: (low/med) Low

Analysis Batch No.: 730358 | Units: ug/Kg

Preparation Batch No.: 730356 | Instrument ID: HP5977R

Number TICs Found: 3 | TIC Result Total: 38.4

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
42769-38-0	1,3-Butadiene, 1,1,3,4-tetrachloro-	11.18	6.4	T J N	87%
55880-77-8	1,3-Butadiene, pentachloro-	12.12	16	T J N	90%
87-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	12.53	16	T J N	99%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: R0693.D

Analysis Method: 8260C | Date Collected: 10/28/2024 12:30

Sample wt/vol: 5.03(g) | Date Analyzed: 10/30/2024 02:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.1 % Solids: 88.9 | Level: (low/med) Low

Analysis Batch No.: 730358 | Units: ug/Kg

Preparation Batch No.: 730356 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.6	U vs	5.6	0.41
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U vs	5.6	0.91
79-00-5	1,1,2-Trichloroethane	5.6	U vs	5.6	0.73
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U vs	5.6	1.3
75-34-3	1,1-Dichloroethane	5.6	U vs	5.6	0.68
75-35-4	1,1-Dichloroethene	5.6	U vs	5.6	0.68
120-82-1	1,2,4-Trichlorobenzene	5.6	U vs	5.6	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	5.6	U vs	5.6	2.8
95-50-1	1,2-Dichlorobenzene	5.6	U vs	5.6	0.44
107-06-2	1,2-Dichloroethane	5.6	U vs	5.6	0.28
78-87-5	1,2-Dichloropropane	5.6	U vs	5.6	2.8
541-73-1	1,3-Dichlorobenzene	5.6	U vs	5.6	0.29
106-46-7	1,4-Dichlorobenzene	5.6	U vs	5.6	0.78
78-93-3	2-Butanone (MEK)	28	U vs	28	2.0
591-78-6	2-Hexanone	28	U vs	28	2.8
108-10-1	4-Methyl-2-pentanone (MIBK)	28	U vs	28	1.8
67-64-1	Acetone	14	J vs	28	4.7
71-43-2	Benzene	0.36	J vs	5.6	0.27
75-27-4	Bromodichloromethane	5.6	U vs	5.6	0.75
75-25-2	Bromoform	5.6	U vs	5.6	2.8
74-83-9	Bromomethane	5.6	U vs	5.6	0.50
75-15-0	Carbon disulfide	5.6	U vs	5.6	2.8
56-23-5	Carbon tetrachloride	5.6	U vs	5.6	0.54
108-90-7	Chlorobenzene	5.6	U vs	5.6	0.74
124-48-1	Dibromochloromethane	5.6	U vs	5.6	0.72
75-00-3	Chloroethane	5.6	U vs	5.6	1.3
67-66-3	Chloroform	0.76 5.6 UJ	U vs B	5.6	0.35 UJ
74-87-3	Chloromethane	5.6	U vs	5.6	0.34
156-59-2	cis-1,2-Dichloroethene	5.6	U vs	5.6	0.72
10061-01-5	cis-1,3-Dichloropropene	5.6	U vs	5.6	0.80
110-82-7	Cyclohexane	5.6	U vs	5.6	0.78

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: R0693.D

Analysis Method: 8260C | Date Collected: 10/28/2024 12:30

Sample wt/vol: 5.03(g) | Date Analyzed: 10/30/2024 02:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.1 % Solids: 88.9 | Level: (low/med) Low

Analysis Batch No.: 730358 | Units: ug/Kg

Preparation Batch No.: 730356 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	5.6	U vs	5.6	0.46	UJ
100-41-4	Ethylbenzene	5.6	U vs	5.6	0.39	
106-93-4	1,2-Dibromoethane	5.6	U vs	5.6	0.72	
98-82-8	Isopropylbenzene	5.6	U vs	5.6	0.84	
79-20-9	Methyl acetate	28	U vs	28	3.4	
1634-04-4	Methyl tert-butyl ether	5.6	U vs	5.6	0.55	
108-87-2	Methylcyclohexane	5.6	U vs	5.6	0.85	
75-09-2	Methylene Chloride	11	vs B	5.6	2.6	J
100-42-5	Styrene	5.6	U vs	5.6	0.28	
127-18-4	Tetrachloroethene	1.5	J vs	5.6	0.75	
108-88-3	Toluene	0.85	J vs	5.6	0.42	
156-60-5	trans-1,2-Dichloroethene	5.6	U vs	5.6	0.58	
10061-02-6	trans-1,3-Dichloropropene	5.6	U vs	5.6	2.5	
79-01-6	Trichloroethene	5.6	U vs	5.6	1.2	
75-69-4	Trichlorofluoromethane	5.6	U vs	5.6	0.53	
75-01-4	Vinyl chloride	5.6	U vs	5.6	0.68	
1330-20-7	Xylenes, Total	11	U vs	11	0.94	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	109		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-126
460-00-4	4-Bromofluorobenzene (Surr)	86		72-126
1868-53-7	Dibromofluoromethane (Surr)	96		60-140

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: R0693.D

Analysis Method: 8260C | Date Collected: 10/28/2024 12:30

Sample wt/vol: 5.03(g) | Date Analyzed: 10/30/2024 02:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.1 % Solids: 88.9 | Level: (low/med) Low

Analysis Batch No.: 730358 | Units: ug/Kg

Preparation Batch No.: 730356 | Instrument ID: HP5977R

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: R0694.D

Analysis Method: 8260C | Date Collected: 10/28/2024 12:00

Sample wt/vol: 5.11(g) | Date Analyzed: 10/30/2024 03:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 7.1 % Solids: 92.9 | Level: (low/med) Low

Analysis Batch No.: 730358 | Units: ug/Kg

Preparation Batch No.: 730356 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.3	U vs	5.3	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U vs	5.3	0.85	
79-00-5	1,1,2-Trichloroethane	5.3	U vs	5.3	0.68	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U vs	5.3	1.2	
75-34-3	1,1-Dichloroethane	5.3	U vs	5.3	0.64	
75-35-4	1,1-Dichloroethene	5.3	U vs	5.3	0.64	
120-82-1	1,2,4-Trichlorobenzene	5.3	U vs	5.3	0.32	
96-12-8	1,2-Dibromo-3-Chloropropane	5.3	U vs	5.3	2.6	
95-50-1	1,2-Dichlorobenzene	5.3	U vs	5.3	0.41	
107-06-2	1,2-Dichloroethane	5.3	U vs	5.3	0.26	
78-87-5	1,2-Dichloropropane	5.3	U vs	5.3	2.6	
541-73-1	1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	
106-46-7	1,4-Dichlorobenzene	5.3	U vs	5.3	0.74	
78-93-3	2-Butanone (MEK)	26	U vs	26	1.9	
591-78-6	2-Hexanone	26	U vs	26	2.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	
67-64-1	Acetone	26	U vs	26	4.4	
71-43-2	Benzene	5.3	U vs	5.3	0.26	
75-27-4	Bromodichloromethane	5.3	U vs	5.3	0.71	
75-25-2	Bromoform	5.3	U vs	5.3	2.6	
74-83-9	Bromomethane	5.3	U vs	5.3	0.47	
75-15-0	Carbon disulfide	5.3	U vs	5.3	2.6	
56-23-5	Carbon tetrachloride	5.3	U vs	5.3	0.51	
108-90-7	Chlorobenzene	5.3	U vs	5.3	0.69	
124-48-1	Dibromochloromethane	5.3	U vs	5.3	0.67	
75-00-3	Chloroethane	5.3	U vs	5.3	1.2	
67-66-3	Chloroform	5.3 UJ 0.59	J vs B	5.3	0.33	UJ
74-87-3	Chloromethane	5.3	U vs	5.3	0.32	
156-59-2	cis-1,2-Dichloroethene	5.3	U vs	5.3	0.67	
10061-01-5	cis-1,3-Dichloropropene	5.3	U vs	5.3	0.76	
110-82-7	Cyclohexane	5.3	U vs	5.3	0.74	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: R0694.D

Analysis Method: 8260C | Date Collected: 10/28/2024 12:00

Sample wt/vol: 5.11(g) | Date Analyzed: 10/30/2024 03:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 7.1 % Solids: 92.9 | Level: (low/med) Low

Analysis Batch No.: 730358 | Units: ug/Kg

Preparation Batch No.: 730356 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	5.3	U vs	5.3	0.43	UJ
100-41-4	Ethylbenzene	5.3	U vs	5.3	0.36	
106-93-4	1,2-Dibromoethane	5.3	U vs	5.3	0.68	
98-82-8	Isopropylbenzene	5.3	U vs	5.3	0.79	
79-20-9	Methyl acetate	26	U vs	26	3.2	
1634-04-4	Methyl tert-butyl ether	5.3	U vs	5.3	0.52	
108-87-2	Methylcyclohexane	5.3	U vs	5.3	0.80	
75-09-2	Methylene Chloride	9.5	vs B	5.3	2.4	J
100-42-5	Styrene	5.3	U vs	5.3	0.26	
127-18-4	Tetrachloroethene	5.3	U vs	5.3	0.71	
108-88-3	Toluene	0.49	J vs	5.3	0.40	
156-60-5	trans-1,2-Dichloroethene	5.3	U vs	5.3	0.54	
10061-02-6	trans-1,3-Dichloropropene	5.3	U vs	5.3	2.3	
79-01-6	Trichloroethene	5.3	U vs	5.3	1.2	
75-69-4	Trichlorofluoromethane	5.3	U vs	5.3	0.50	
75-01-4	Vinyl chloride	5.3	U vs	5.3	0.64	
1330-20-7	Xylenes, Total	11	U vs	11	0.88	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-126
460-00-4	4-Bromofluorobenzene (Surr)	90		72-126
1868-53-7	Dibromofluoromethane (Surr)	96		60-140

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: R0694.D

Analysis Method: 8260C | Date Collected: 10/28/2024 12:00

Sample wt/vol: 5.11(g) | Date Analyzed: 10/30/2024 03:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 7.1 % Solids: 92.9 | Level: (low/med) Low

Analysis Batch No.: 730358 | Units: ug/Kg

Preparation Batch No.: 730356 | Instrument ID: HP5977R

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: X00000033906.d

Analysis Method: 8270D | Date Collected: 10/28/2024 10:30

Extract. Method: 3550C | Date Extracted: 10/29/2024 17:50

Sample wt/vol: 30.17(g) | Date Analyzed: 10/30/2024 15:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 6.3 % Solids: 93.7 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730417 | Units: ug/Kg

Preparation Batch No.: 730353 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	2100	U F1	2100	1200	
95-95-4	2,4,5-Trichlorophenol	3600	U	3600	980	
88-06-2	2,4,6-Trichlorophenol	3600	U	3600	720	
120-83-2	2,4-Dichlorophenol	3600	U	3600	380	
105-67-9	2,4-Dimethylphenol	3600	U	3600	870	
51-28-5	2,4-Dinitrophenol	35000	U	35000	17000	
121-14-2	2,4-Dinitrotoluene	3600	U	3600	740	
606-20-2	2,6-Dinitrotoluene	3600	U F2	3600	420	
91-58-7	2-Chloronaphthalene	3600	U	3600	590	
95-57-8	2-Chlorophenol	7000	U	7000	660	
91-57-6	2-Methylnaphthalene	3600	U	3600	720	
95-48-7	2-Methylphenol	3600	U	3600	420	
88-74-4	2-Nitroaniline	7000	U F2	7000	530	UJ
88-75-5	2-Nitrophenol	3600	U	3600	1000	
91-94-1	3,3'-Dichlorobenzidine	7000	U	7000	4200	
99-09-2	3-Nitroaniline	7000	U	7000	1000	
534-52-1	4,6-Dinitro-2-methylphenol	7000	U	7000	3600	
101-55-3	4-Bromophenyl phenyl ether	3600	U	3600	510	
59-50-7	4-Chloro-3-methylphenol	3600	U	3600	890	
106-47-8	4-Chloroaniline	3600	U	3600	890	
7005-72-3	4-Chlorophenyl phenyl ether	3600	U	3600	450	
106-44-5	4-Methylphenol	7000	U	7000	420	
100-01-6	4-Nitroaniline	7000	U	7000	1900	
100-02-7	4-Nitrophenol	7000	U F1	7000	2500	
83-32-9	Acenaphthene	3600	U	3600	530	
208-96-8	Acenaphthylene	3600	U	3600	470	
98-86-2	Acetophenone	3600	U	3600	490	
120-12-7	Anthracene	3600	U	3600	890	
1912-24-9	Atrazine	3600	U	3600	1300	
100-52-7	Benzaldehyde	3600	U	3600	2900	
56-55-3	Benzo[a]anthracene	440	J F1	3600	360	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: X00000033906.d

Analysis Method: 8270D | Date Collected: 10/28/2024 10:30

Extract. Method: 3550C | Date Extracted: 10/29/2024 17:50

Sample wt/vol: 30.17(g) | Date Analyzed: 10/30/2024 15:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 6.3 % Solids: 93.7 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730417 | Units: ug/Kg

Preparation Batch No.: 730353 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	3600	U F1	3600	530	
205-99-2	Benzo[b]fluoranthene	640	J	3600	570	
191-24-2	Benzo[g,h,i]perylene	400	J	3600	380	
207-08-9	Benzo[k]fluoranthene	3600	U	3600	470	
92-52-4	Biphenyl	3600	U	3600	530	
108-60-1	bis (2-chloroisopropyl) ether	3600	U	3600	720	
111-91-1	Bis(2-chloroethoxy)methane	3600	U	3600	760	
111-44-4	Bis(2-chloroethyl)ether	3600	U	3600	470	
117-81-7	Bis(2-ethylhexyl) phthalate	3600	U F1	3600	1200	
85-68-7	Butyl benzyl phthalate	3600	U F1 F2	3600	590	
105-60-2	Caprolactam	3600	U	3600	1100	
86-74-8	Carbazole	3600	U	3600	420	
218-01-9	Chrysene	3600	U F1	3600	810	
53-70-3	Dibenz(a,h)anthracene	3600	U	3600	640	
132-64-9	Dibenzofuran	3600	U	3600	420	
84-66-2	Diethyl phthalate	3600	U F2	3600	470	
131-11-3	Dimethyl phthalate	3600	U F1 F2	3600	420	
84-74-2	Di-n-butyl phthalate	3600	U	3600	620	
117-84-0	Di-n-octyl phthalate	3600	U F1	3600	420	UJ
206-44-0	Fluoranthene	1100	J F1	3600	380	
86-73-7	Fluorene	3600	U	3600	420	
118-74-1	Hexachlorobenzene	3600	U	3600	490	
87-68-3	Hexachlorobutadiene	3600	U	3600	530	
77-47-4	Hexachlorocyclopentadiene	3600	U	3600	490	
67-72-1	Hexachloroethane	3600	U	3600	470	
193-39-5	Indeno[1,2,3-cd]pyrene	3600	U	3600	450	
78-59-1	Isophorone	3600	U	3600	760	
91-20-3	Naphthalene	3600	U	3600	470	
98-95-3	Nitrobenzene	3600	U	3600	400	
621-64-7	N-Nitrosodi-n-propylamine	3600	U	3600	620	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: X00000033906.d

Analysis Method: 8270D | Date Collected: 10/28/2024 10:30

Extract. Method: 3550C | Date Extracted: 10/29/2024 17:50

Sample wt/vol: 30.17(g) | Date Analyzed: 10/30/2024 15:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 6.3 % Solids: 93.7 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730417 | Units: ug/Kg

Preparation Batch No.: 730353 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
86-30-6	N-Nitrosodiphenylamine	3600	U	3600	2900
87-86-5	Pentachlorophenol	7000	U	7000	3600
85-01-8	Phenanthrene	630	J F1	3600	530
108-95-2	Phenol	3600	U	3600	550
129-00-0	Pyrene	890	J F1	3600	420

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	90		26-143
321-60-8	2-Fluorobiphenyl (Surr)	89		50-121
367-12-4	2-Fluorophenol (Surr)	65		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	80		40-121
4165-62-2	Phenol-d5 (Surr)	63		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	88		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: X00000033920.d

Analysis Method: 8270D | Date Collected: 10/28/2024 12:30

Extract. Method: 3550C | Date Extracted: 10/29/2024 17:50

Sample wt/vol: 30.43(g) | Date Analyzed: 10/30/2024 21:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 11.1 % Solids: 88.9 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730417 | Units: ug/Kg

Preparation Batch No.: 730353 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	550	U	550	300	
95-95-4	2,4,5-Trichlorophenol	940	U	940	250	
88-06-2	2,4,6-Trichlorophenol	940	U	940	190	
120-83-2	2,4-Dichlorophenol	940	U	940	100	
105-67-9	2,4-Dimethylphenol	940	U	940	230	
51-28-5	2,4-Dinitrophenol	9200	U	9200	4300	
121-14-2	2,4-Dinitrotoluene	940	U	940	190	
606-20-2	2,6-Dinitrotoluene	940	U	940	110	
91-58-7	2-Chloronaphthalene	940	U	940	160	
95-57-8	2-Chlorophenol	1800	U	1800	170	
91-57-6	2-Methylnaphthalene	940	U	940	190	
95-48-7	2-Methylphenol	940	U	940	110	
88-74-4	2-Nitroaniline	1800	U	1800	140	UJ
88-75-5	2-Nitrophenol	940	U	940	270	
91-94-1	3,3'-Dichlorobenzidine	1800	U	1800	1100	
99-09-2	3-Nitroaniline	1800	U	1800	260	
534-52-1	4,6-Dinitro-2-methylphenol	1800	U	1800	940	
101-55-3	4-Bromophenyl phenyl ether	940	U	940	130	
59-50-7	4-Chloro-3-methylphenol	940	U	940	230	
106-47-8	4-Chloroaniline	940	U	940	230	
7005-72-3	4-Chlorophenyl phenyl ether	940	U	940	120	
106-44-5	4-Methylphenol	1800	U	1800	110	
100-01-6	4-Nitroaniline	1800	U	1800	490	
100-02-7	4-Nitrophenol	1800	U	1800	660	
83-32-9	Acenaphthene	810	J	940	140	
208-96-8	Acenaphthylene	940	U	940	120	
98-86-2	Acetophenone	940	U	940	130	
120-12-7	Anthracene	2100		940	230	
1912-24-9	Atrazine	940	U	940	330	
100-52-7	Benzaldehyde	940	U	940	750	
56-55-3	Benzo[a]anthracene	3900		940	94	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: X00000033920.d

Analysis Method: 8270D | Date Collected: 10/28/2024 12:30

Extract. Method: 3550C | Date Extracted: 10/29/2024 17:50

Sample wt/vol: 30.43(g) | Date Analyzed: 10/30/2024 21:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 11.1 % Solids: 88.9 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730417 | Units: ug/Kg

Preparation Batch No.: 730353 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	3000		940	140	
205-99-2	Benzo[b]fluoranthene	3300		940	150	
191-24-2	Benzo[g,h,i]perylene	1700		940	100	
207-08-9	Benzo[k]fluoranthene	1900		940	120	
92-52-4	Biphenyl	940	U	940	140	
108-60-1	bis (2-chloroisopropyl) ether	940	U	940	190	
111-91-1	Bis(2-chloroethoxy)methane	940	U	940	200	
111-44-4	Bis(2-chloroethyl)ether	940	U	940	120	
117-81-7	Bis(2-ethylhexyl) phthalate	940	U	940	320	
85-68-7	Butyl benzyl phthalate	940	U	940	160	
105-60-2	Caprolactam	940	U	940	280	
86-74-8	Carbazole	920	J	940	110	
218-01-9	Chrysene	3300		940	210	
53-70-3	Dibenz(a,h)anthracene	530	J	940	170	
132-64-9	Dibenzofuran	440	J	940	110	
84-66-2	Diethyl phthalate	940	U	940	120	
131-11-3	Dimethyl phthalate	940	U	940	110	
84-74-2	Di-n-butyl phthalate	940	U	940	160	
117-84-0	Di-n-octyl phthalate	940	U	940	110	UJ
206-44-0	Fluoranthene	8900		940	100	
86-73-7	Fluorene	860	J	940	110	
118-74-1	Hexachlorobenzene	940	U	940	130	
87-68-3	Hexachlorobutadiene	940	U	940	140	
77-47-4	Hexachlorocyclopentadiene	940	U	940	130	
67-72-1	Hexachloroethane	940	U	940	120	
193-39-5	Indeno[1,2,3-cd]pyrene	1500		940	120	
78-59-1	Isophorone	940	U	940	200	
91-20-3	Naphthalene	190	J	940	120	
98-95-3	Nitrobenzene	940	U	940	110	
621-64-7	N-Nitrosodi-n-propylamine	940	U	940	160	
86-30-6	N-Nitrosodiphenylamine	940	U	940	760	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: X00000033920.d

Analysis Method: 8270D | Date Collected: 10/28/2024 12:30

Extract. Method: 3550C | Date Extracted: 10/29/2024 17:50

Sample wt/vol: 30.43(g) | Date Analyzed: 10/30/2024 21:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 11.1 % Solids: 88.9 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730417 | Units: ug/Kg

Preparation Batch No.: 730353 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	1800	U	1800	940
85-01-8	Phenanthrene	7200		940	140
108-95-2	Phenol	940	U	940	140
129-00-0	Pyrene	6800		940	110

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	86		26-143
321-60-8	2-Fluorobiphenyl (Surr)	78		50-121
367-12-4	2-Fluorophenol (Surr)	76		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	77		40-121
4165-62-2	Phenol-d5 (Surr)	79		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	87		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: X00000033921.d

Analysis Method: 8270D | Date Collected: 10/28/2024 12:00

Extract. Method: 3550C | Date Extracted: 10/29/2024 17:50

Sample wt/vol: 30.17(g) | Date Analyzed: 10/30/2024 21:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 7.1 % Solids: 92.9 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730417 | Units: ug/Kg

Preparation Batch No.: 730353 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	2100	U	2100	1200	
95-95-4	2,4,5-Trichlorophenol	3600	U	3600	980	
88-06-2	2,4,6-Trichlorophenol	3600	U	3600	730	
120-83-2	2,4-Dichlorophenol	3600	U	3600	390	
105-67-9	2,4-Dimethylphenol	3600	U	3600	880	
51-28-5	2,4-Dinitrophenol	36000	U	36000	17000	
121-14-2	2,4-Dinitrotoluene	3600	U	3600	750	
606-20-2	2,6-Dinitrotoluene	3600	U	3600	430	
91-58-7	2-Chloronaphthalene	3600	U	3600	600	
95-57-8	2-Chlorophenol	7100	U	7100	660	
91-57-6	2-Methylnaphthalene	3600	U	3600	730	
95-48-7	2-Methylphenol	3600	U	3600	430	
88-74-4	2-Nitroaniline	7100	U	7100	540	UJ
88-75-5	2-Nitrophenol	3600	U	3600	1000	
91-94-1	3,3'-Dichlorobenzidine	7100	U	7100	4300	
99-09-2	3-Nitroaniline	7100	U	7100	1000	
534-52-1	4,6-Dinitro-2-methylphenol	7100	U	7100	3600	
101-55-3	4-Bromophenyl phenyl ether	3600	U	3600	510	
59-50-7	4-Chloro-3-methylphenol	3600	U	3600	900	
106-47-8	4-Chloroaniline	3600	U	3600	900	
7005-72-3	4-Chlorophenyl phenyl ether	3600	U	3600	450	
106-44-5	4-Methylphenol	7100	U	7100	430	
100-01-6	4-Nitroaniline	7100	U	7100	1900	
100-02-7	4-Nitrophenol	7100	U	7100	2500	
83-32-9	Acenaphthene	730	J	3600	540	
208-96-8	Acenaphthylene	1900	J	3600	470	
98-86-2	Acetophenone	3600	U	3600	490	
120-12-7	Anthracene	3600		3600	900	
1912-24-9	Atrazine	3600	U	3600	1300	
100-52-7	Benzaldehyde	3600	U	3600	2900	
56-55-3	Benzo[a]anthracene	8200		3600	360	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: X00000033921.d

Analysis Method: 8270D | Date Collected: 10/28/2024 12:00

Extract. Method: 3550C | Date Extracted: 10/29/2024 17:50

Sample wt/vol: 30.17(g) | Date Analyzed: 10/30/2024 21:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 7.1 % Solids: 92.9 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730417 | Units: ug/Kg

Preparation Batch No.: 730353 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	7400		3600	540	
205-99-2	Benzo[b]fluoranthene	8400		3600	580	
191-24-2	Benzo[g,h,i]perylene	4600		3600	390	
207-08-9	Benzo[k]fluoranthene	4100		3600	470	
92-52-4	Biphenyl	3600	U	3600	540	
108-60-1	bis (2-chloroisopropyl) ether	3600	U	3600	730	
111-91-1	Bis(2-chloroethoxy)methane	3600	U	3600	770	
111-44-4	Bis(2-chloroethyl)ether	3600	U	3600	470	
117-81-7	Bis(2-ethylhexyl) phthalate	3600	U	3600	1200	
85-68-7	Butyl benzyl phthalate	3600	U	3600	600	
105-60-2	Caprolactam	3600	U	3600	1100	
86-74-8	Carbazole	780	J	3600	430	
218-01-9	Chrysene	8000		3600	810	
53-70-3	Dibenz(a,h)anthracene	1200	J	3600	640	
132-64-9	Dibenzofuran	860	J	3600	430	
84-66-2	Diethyl phthalate	3600	U	3600	470	
131-11-3	Dimethyl phthalate	3600	U	3600	430	
84-74-2	Di-n-butyl phthalate	3600	U	3600	620	
117-84-0	Di-n-octyl phthalate	3600	U	3600	430	UJ
206-44-0	Fluoranthene	21000		3600	390	
86-73-7	Fluorene	1500	J	3600	430	
118-74-1	Hexachlorobenzene	3600	U	3600	490	
87-68-3	Hexachlorobutadiene	3600	U	3600	540	
77-47-4	Hexachlorocyclopentadiene	3600	U	3600	490	
67-72-1	Hexachloroethane	3600	U	3600	470	
193-39-5	Indeno[1,2,3-cd]pyrene	3900		3600	450	
78-59-1	Isophorone	3600	U	3600	770	
91-20-3	Naphthalene	920	J	3600	470	
98-95-3	Nitrobenzene	3600	U	3600	410	
621-64-7	N-Nitrosodi-n-propylamine	3600	U	3600	620	
86-30-6	N-Nitrosodiphenylamine	3600	U	3600	3000	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: X00000033921.d

Analysis Method: 8270D | Date Collected: 10/28/2024 12:00

Extract. Method: 3550C | Date Extracted: 10/29/2024 17:50

Sample wt/vol: 30.17(g) | Date Analyzed: 10/30/2024 21:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 7.1 % Solids: 92.9 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730417 | Units: ug/Kg

Preparation Batch No.: 730353 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	7100	U	7100	3600
85-01-8	Phenanthrene	14000		3600	540
108-95-2	Phenol	3600	U	3600	560
129-00-0	Pyrene	16000		3600	430

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	93		26-143
321-60-8	2-Fluorobiphenyl (Surr)	84		50-121
367-12-4	2-Fluorophenol (Surr)	69		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	94		40-121
4165-62-2	Phenol-d5 (Surr)	72		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	92		46-143

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: 5_75172.D

Analysis Method: 8081B | Date Collected: 10/28/2024 10:30

Extraction Method: 3550C | Date Extracted: 10/30/2024 07:05

Sample wt/vol: 30.10(g) | Date Analyzed: 10/31/2024 10:41

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 6.3 % Solids: 93.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730567 | Units: ug/Kg

Preparation Batch No.: 730372 | Instrument ID: HP6890-5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	36	U	36	6.9	
72-55-9	4,4'-DDE	36	U	36	7.4	
50-29-3	4,4'-DDT	36	U	36	8.3	
309-00-2	Aldrin	36	U	36	8.7	
319-84-6	alpha-BHC	36 UJ 7.8	~~J~~ B	36	6.4	UJ
319-85-7	beta-BHC	36	U	36	6.4	
5103-71-9	Chlordane (.alpha.)	36	U F1	36	18	
319-86-8	delta-BHC	36	U F1	36	6.6	
60-57-1	Dieldrin	36	U F2	36	8.5	
959-98-8	Endosulfan I	36	U F2	36	6.8	
33213-65-9	Endosulfan II	36	U	36	6.4	
1031-07-8	Endosulfan sulfate	36	U	36	6.6	
72-20-8	Endrin	36	U	36	7.0	
76-44-8	Heptachlor	36	U	36	7.7	
58-89-9	Lindane	36	U F1	36	6.5	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	144	S1+	45-120
877-09-8	Tetrachloro-m-xylene	146	S1+	30-124

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: 5_75173.D

Analysis Method: 8081B | Date Collected: 10/28/2024 12:30

Extraction Method: 3550C | Date Extracted: 10/30/2024 07:05

Sample wt/vol: 30.65(g) | Date Analyzed: 10/31/2024 11:00

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 11.1 % Solids: 88.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730567 | Units: ug/Kg

Preparation Batch No.: 730372 | Instrument ID: HP6890-5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	37	U	37	7.1	
72-55-9	4,4'-DDE	37	U	37	7.7	
50-29-3	4,4'-DDT	37	U	37	8.6	
309-00-2	Aldrin	37	U	37	9.0	
319-84-6	alpha-BHC	37 UJ ~~8.7~~	J B	37	6.6	UJ
319-85-7	beta-BHC	37	U	37	6.6	
5103-71-9	Chlordane (.alpha.)	37	U	37	18	
319-86-8	delta-BHC	37	U	37	6.8	
60-57-1	Dieldrin	37	U	37	8.8	
959-98-8	Endosulfan I	37	U	37	7.0	
33213-65-9	Endosulfan II	37	U	37	6.6	
1031-07-8	Endosulfan sulfate	37	U	37	6.8	
72-20-8	Endrin	37	U	37	7.3	
76-44-8	Heptachlor	37	U	37	7.9	
58-89-9	Lindane	37 UJ ~~7.6~~	J B	37	6.7	UJ

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	141	S1+	45-120
877-09-8	Tetrachloro-m-xylene	142	S1+	30-124

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: 5_75174.D

Analysis Method: 8081B | Date Collected: 10/28/2024 12:00

Extraction Method: 3550C | Date Extracted: 10/30/2024 07:05

Sample wt/vol: 30.76(g) | Date Analyzed: 10/31/2024 11:20

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 7.1 % Solids: 92.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730567 | Units: ug/Kg

Preparation Batch No.: 730372 | Instrument ID: HP6890-5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	35	U	35	6.8	
72-55-9	4,4'-DDE	35	U	35	7.3	
50-29-3	4,4'-DDT	8.6	J	35	8.2	J
309-00-2	Aldrin	35	U	35	8.6	
319-84-6	alpha-BHC	35 UJ ~~11~~	~~J B~~	35	6.3	UJ
319-85-7	beta-BHC	23	J	35	6.3	J
5103-71-9	Chlordane (.alpha.)	35	U	35	17	
319-86-8	delta-BHC	35 UJ ~~8.6~~	~~J B~~	35	6.5	UJ
60-57-1	Dieldrin	35	U	35	8.4	
959-98-8	Endosulfan I	35	U	35	6.7	
33213-65-9	Endosulfan II	35	U	35	6.3	
1031-07-8	Endosulfan sulfate	35	U	35	6.5	
72-20-8	Endrin	35	U	35	6.9	
76-44-8	Heptachlor	35	U	35	7.6	
58-89-9	Lindane	35 UJ ~~8.5~~	~~J B~~	35	6.4	UJ

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	119		45-120
877-09-8	Tetrachloro-m-xylene	140	S1+	30-124

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Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

No data validation qualifiers were added

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FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: 60001055.D

Analysis Method: 8082A | Date Collected: 10/28/2024 10:30

Extraction Method: 3550C | Date Extracted: 10/29/2024 18:14

Sample wt/vol: 2.77(g) | Date Analyzed: 10/31/2024 14:15

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 6.3 % Solids: 93.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730642 | Units: mg/Kg

Preparation Batch No.: 730360 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.19	U	0.19	0.038
11104-28-2	PCB-1221	0.19	U	0.19	0.038
11141-16-5	PCB-1232	0.19	U	0.19	0.038
53469-21-9	PCB-1242	0.19	U	0.19	0.038
12672-29-6	PCB-1248	0.19	U	0.19	0.038
11097-69-1	PCB-1254	0.19	U	0.19	0.090
11096-82-5	PCB-1260	0.19	U	0.19	0.090

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	124		60-154
2051-24-3	DCB Decachlorobiphenyl	113		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: 60001056.D

Analysis Method: 8082A | Date Collected: 10/28/2024 12:30

Extraction Method: 3550C | Date Extracted: 10/29/2024 18:14

Sample wt/vol: 2.68(g) | Date Analyzed: 10/31/2024 14:34

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 11.1 % Solids: 88.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730642 | Units: mg/Kg

Preparation Batch No.: 730360 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.21	U	0.21	0.041
11104-28-2	PCB-1221	0.21	U	0.21	0.041
11141-16-5	PCB-1232	0.21	U	0.21	0.041
53469-21-9	PCB-1242	0.21	U	0.21	0.041
12672-29-6	PCB-1248	0.21	U	0.21	0.041
11097-69-1	PCB-1254	0.21	U	0.21	0.098
11096-82-5	PCB-1260	0.21	U	0.21	0.098

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		60-154
2051-24-3	DCB Decachlorobiphenyl	107		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: 60001057.D

Analysis Method: 8082A | Date Collected: 10/28/2024 12:00

Extraction Method: 3550C | Date Extracted: 10/29/2024 18:14

Sample wt/vol: 2.73(g) | Date Analyzed: 10/31/2024 14:52

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 7.1 % Solids: 92.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730642 | Units: mg/Kg

Preparation Batch No.: 730360 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.20	U	0.20	0.039
11104-28-2	PCB-1221	0.20	U	0.20	0.039
11141-16-5	PCB-1232	0.20	U	0.20	0.039
53469-21-9	PCB-1242	0.20	U	0.20	0.039
12672-29-6	PCB-1248	0.20	U	0.20	0.039
11097-69-1	PCB-1254	0.20	U	0.20	0.092
11096-82-5	PCB-1260	0.20	U	0.20	0.092

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	97		60-154
2051-24-3	DCB Decachlorobiphenyl	108		65-174

Method 8151A

Herbicides (GC) by Method 8151A

No data validation qualifiers were added

MKP 12/10/2024

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: 2024-11-01 15-37-01-04-00-12.D

Analysis Method: 8151A | Date Collected: 10/28/2024 10:30

Extraction Method: 8151A | Date Extracted: 10/30/2024 17:37

Sample wt/vol: 30.20(g) | Date Analyzed: 11/01/2024 15:37

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 6.3 % Solids: 93.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730835 | Units: ug/Kg

Preparation Batch No.: 730561 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	18	U	18	6.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	64		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: 2024-11-01 15-55-27-04-00-13.D

Analysis Method: 8151A | Date Collected: 10/28/2024 12:30

Extraction Method: 8151A | Date Extracted: 10/30/2024 17:37

Sample wt/vol: 30.19(g) | Date Analyzed: 11/01/2024 15:55

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 11.1 % Solids: 88.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730835 | Units: ug/Kg

Preparation Batch No.: 730561 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	19	U	19	6.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	50		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: 2024-11-01 16-32-28-04-00-15.D

Analysis Method: 8151A | Date Collected: 10/28/2024 12:00

Extraction Method: 8151A | Date Extracted: 10/30/2024 17:37

Sample wt/vol: 30.39(g) | Date Analyzed: 11/01/2024 16:32

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 7.1 % Solids: 92.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730835 | Units: ug/Kg

Preparation Batch No.: 730561 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	18	U	18	6.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	58		28-129

1633

Per- and Polyfluoroalkyl Substances by LC/MS/MS

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: samples18.d

Analysis Method: Draft-3 1633 | Date Collected: 10/28/2024 10:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 08:56

Sample wt/vol: 1.52(g) | Date Analyzed: 11/03/2024 02:10

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 6.3 % Solids: 93.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633666 | Units: ug/Kg

Preparation Batch No.: 633477 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
375-22-4	Perfluorobutanoic acid (PFBA)	0.70	U	0.70	0.18	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.088	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.044	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.044	
335-67-1	Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.044	
375-95-1	Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.044	
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.044	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.044	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.044	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.044	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.044	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.044	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.044	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.044	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.044	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.11	J	0.18	0.044	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.044	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.044	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.70	U	0.70	0.18	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.70	U	0.70	0.18	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.70	U	0.70	0.18	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.044	UJ
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.044	
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.044	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.044	

MKP 12/10/2024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: samples18.d

Analysis Method: Draft-3 1633 | Date Collected: 10/28/2024 10:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 08:56

Sample wt/vol: 1.52(g) | Date Analyzed: 11/03/2024 02:10

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 6.3 % Solids: 93.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633666 | Units: ug/Kg

Preparation Batch No.: 633477 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.044
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.44
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.44
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.70	U	0.70	0.18
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.70	U	0.70	0.18
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.088
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.088
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.70	U	0.70	0.18
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.70	U	0.70	0.18
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.088
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.88	U	0.88	0.22
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	4.4	1.1
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.4	U	4.4	1.1
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.044
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.088

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') | Lab Sample ID: 480-224894-1

Matrix: Solid | Lab File ID: samples18.d

Analysis Method: Draft-3 1633 | Date Collected: 10/28/2024 10:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 08:56

Sample wt/vol: 1.52(g) | Date Analyzed: 11/03/2024 02:10

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 6.3 % Solids: 93.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633666 | Units: ug/Kg

Preparation Batch No.: 633477 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	95.5		20-150
STL01893	13C5 PFPeA	80.0		20-150
STL02577	13C5 PFHxA	83.7		20-150
STL01892	13C4 PFHpA	88.3		20-150
STL01052	13C8 PFOA	89.9		20-150
STL02578	13C9 PFNA	88.3		20-150
STL02579	13C6 PFDA	90.2		20-150
STL02580	13C7 PFUnA	88.4		20-150
STL02116	13C2 PFTeDA	82.3		20-150
STL02337	13C3 PFBS	89.8		20-150
STL02581	13C3 PFHxS	84.2		20-150
STL01054	13C8 PFOS	84.9		20-150
STL01056	13C8 PFOSA	68.2		20-150
STL02118	d3-NMeFOSAA	74.7		20-150
STL02117	d5-NEtFOSAA	87.9		20-150
STL02395	M2-4:2 FTS	97.4		20-150
STL02279	M2-6:2 FTS	94.2		20-150
STL02280	M2-8:2 FTS	92.8		20-150
STL02255	13C3 HFPO-DA	87.6		20-150
STL02277	d7-N-MeFOSE-M	69.8		20-150
STL02278	d9-N-EtFOSE-M	69.7		20-150
STL02704	d5-NEtPFOSA	60.2		20-150
STL02705	D3-NMeFOSA	59.2		20-150
STL02703	13C2-PFDoDA	86.5		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: samples19.d

Analysis Method: Draft-3 1633 | Date Collected: 10/28/2024 12:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 08:56

Sample wt/vol: 1.49(g) | Date Analyzed: 11/03/2024 02:27

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 11.1 % Solids: 88.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633666 | Units: ug/Kg

Preparation Batch No.: 633477 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
375-22-4	Perfluorobutanoic acid (PFBA)	0.75	U	0.75	0.19	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.094	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.047	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.047	
335-67-1	Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.047	
375-95-1	Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.047	
335-76-2	Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.047	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.047	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.047	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.047	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.047	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.047	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.047	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.047	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.047	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.047	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.047	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.047	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.75	U	0.75	0.19	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.75	U	0.75	0.19	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.75	U	0.75	0.19	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.047	UJ
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.047	
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.047	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.047	

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FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: samples19.d

Analysis Method: Draft-3 1633 | Date Collected: 10/28/2024 12:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 08:56

Sample wt/vol: 1.49(g) | Date Analyzed: 11/03/2024 02:27

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 11.1 % Solids: 88.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633666 | Units: ug/Kg

Preparation Batch No.: 633477 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.047
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.47
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.47
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.75	U	0.75	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.75	U	0.75	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.094
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.094
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.75	U	0.75	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.75	U	0.75	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U	0.38	0.094
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.94	U	0.94	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.7	U	4.7	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.7	U	4.7	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.047
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.094

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') | Lab Sample ID: 480-224894-2

Matrix: Solid | Lab File ID: samples19.d

Analysis Method: Draft-3 1633 | Date Collected: 10/28/2024 12:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 08:56

Sample wt/vol: 1.49(g) | Date Analyzed: 11/03/2024 02:27

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 11.1 % Solids: 88.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633666 | Units: ug/Kg

Preparation Batch No.: 633477 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	97.5		20-150
STL01893	13C5 PFPeA	84.2		20-150
STL02577	13C5 PFHxA	85.8		20-150
STL01892	13C4 PFHpA	89.8		20-150
STL01052	13C8 PFOA	95.1		20-150
STL02578	13C9 PFNA	88.9		20-150
STL02579	13C6 PFDA	88.0		20-150
STL02580	13C7 PFUnA	85.2		20-150
STL02116	13C2 PFTeDA	87.6		20-150
STL02337	13C3 PFBS	84.5		20-150
STL02581	13C3 PFHxS	86.6		20-150
STL01054	13C8 PFOS	84.6		20-150
STL01056	13C8 PFOSA	82.2		20-150
STL02118	d3-NMeFOSAA	80.6		20-150
STL02117	d5-NEtFOSAA	91.6		20-150
STL02395	M2-4:2 FTS	103		20-150
STL02279	M2-6:2 FTS	103		20-150
STL02280	M2-8:2 FTS	104		20-150
STL02255	13C3 HFPO-DA	87.5		20-150
STL02277	d7-N-MeFOSE-M	68.7		20-150
STL02278	d9-N-EtFOSE-M	67.2		20-150
STL02704	d5-NEtPFOSA	68.0		20-150
STL02705	D3-NMeFOSA	66.6		20-150
STL02703	13C2-PFDoDA	89.2		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: samples20.d

Analysis Method: Draft-3 1633 | Date Collected: 10/28/2024 12:00

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 08:56

Sample wt/vol: 1.56(g) | Date Analyzed: 11/03/2024 02:44

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 7.1 % Solids: 92.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633666 | Units: ug/Kg

Preparation Batch No.: 633477 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
375-22-4	Perfluorobutanoic acid (PFBA)	0.69	U	0.69	0.17	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.24	J	0.34	0.086	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.043	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.043	
335-67-1	Perfluorooctanoic acid (PFOA)	0.093	J	0.17	0.043	
375-95-1	Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.043	
335-76-2	Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.043	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.043	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.043	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.043	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.043	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.043	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.043	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.043	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.043	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.26		0.17	0.043	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.043	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.043	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.69	U	0.69	0.17	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.69	U	0.69	0.17	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.69	U	0.69	0.17	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.043	UJ
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.043	
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.043	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.043	

MKP 12/10/2024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: samples20.d

Analysis Method: Draft-3 1633 | Date Collected: 10/28/2024 12:00

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 08:56

Sample wt/vol: 1.56(g) | Date Analyzed: 11/03/2024 02:44

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 7.1 % Solids: 92.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633666 | Units: ug/Kg

Preparation Batch No.: 633477 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.043
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.43
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.43
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.69	U	0.69	0.17
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.69	U	0.69	0.17
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.34	U	0.34	0.086
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.34	U	0.34	0.086
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.69	U	0.69	0.17
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.69	U	0.69	0.17
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.34	U	0.34	0.086
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.86	U	0.86	0.22
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.3	U	4.3	1.1
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.3	U	4.3	1.1
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.043
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.34	U	0.34	0.086

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') | Lab Sample ID: 480-224894-3

Matrix: Solid | Lab File ID: samples20.d

Analysis Method: Draft-3 1633 | Date Collected: 10/28/2024 12:00

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 08:56

Sample wt/vol: 1.56(g) | Date Analyzed: 11/03/2024 02:44

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 7.1 % Solids: 92.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633666 | Units: ug/Kg

Preparation Batch No.: 633477 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	86.3		20-150
STL01893	13C5 PFPeA	72.5		20-150
STL02577	13C5 PFHxA	74.2		20-150
STL01892	13C4 PFHpA	77.3		20-150
STL01052	13C8 PFOA	79.1		20-150
STL02578	13C9 PFNA	76.5		20-150
STL02579	13C6 PFDA	77.0		20-150
STL02580	13C7 PFUnA	75.4		20-150
STL02116	13C2 PFTeDA	82.2		20-150
STL02337	13C3 PFBS	77.0		20-150
STL02581	13C3 PFHxS	75.2		20-150
STL01054	13C8 PFOS	74.1		20-150
STL01056	13C8 PFOSA	58.9		20-150
STL02118	d3-NMeFOSAA	65.9		20-150
STL02117	d5-NEtFOSAA	76.7		20-150
STL02395	M2-4:2 FTS	86.6		20-150
STL02279	M2-6:2 FTS	86.0		20-150
STL02280	M2-8:2 FTS	89.6		20-150
STL02255	13C3 HFPO-DA	75.8		20-150
STL02277	d7-N-MeFOSE-M	55.7		20-150
STL02278	d9-N-EtFOSE-M	54.9		20-150
STL02704	d5-NEtPFOSA	55.8		20-150
STL02705	D3-NMeFOSA	56.1		20-150
STL02703	13C2-PFDoDA	79.8		20-150

METALS

No data validation qualifiers were added

MKP 12/10/2024

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224894-1

SDG No.:

Project: The Nest Site Analysis - Soil

Client Sample ID	Lab Sample ID
BH-2 (2-4')	480-224894-1
BH-4 (2-4')	480-224894-2
BH-7 (2-4')	480-224894-3

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-2 (2-4') Lab Sample ID: 480-224894-1

Lab Name: Eurofins Buffalo Job No.: 480-224894-1

SDG ID.:

Matrix: Solid Date Sampled: 10/28/2024 10:30

Reporting Basis: DRY Date Received: 10/28/2024 16:38

Preparation Batch Number: 730281 Instrument ID: ICAP3

% Solids: 93.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	6600	10.4	9.0	mg/Kg			1	6010C
7440-36-0	Antimony	15.6	15.6	0.55	mg/Kg	U		1	6010C
7440-38-2	Arsenic	3.0	2.1	0.91	mg/Kg			1	6010C
7440-39-3	Barium	41.2	0.52	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.28	0.21	0.042	mg/Kg			1	6010C
7440-43-9	Cadmium	0.86	0.21	0.073	mg/Kg			1	6010C
7440-70-2	Calcium	90700	260	140	mg/Kg			5	6010C
7440-47-3	Chromium	9.2	0.52	0.37	mg/Kg			1	6010C
7440-48-4	Cobalt	3.5	0.52	0.10	mg/Kg			1	6010C
7440-50-8	Copper	16.1	1.0	0.59	mg/Kg			1	6010C
7439-89-6	Iron	8140	10.4	8.8	mg/Kg			1	6010C
7439-92-1	Lead	119	1.0	0.48	mg/Kg			1	6010C
7439-95-4	Magnesium	41100	20.8	8.8	mg/Kg			1	6010C
7439-96-5	Manganese	448	1.0	0.29	mg/Kg			1	6010C
7440-02-0	Nickel	8.8	5.2	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	1810	31.2	25.2	mg/Kg			1	6010C
7782-49-2	Selenium	4.2	4.2	0.83	mg/Kg	U		1	6010C
7440-22-4	Silver	0.62	0.62	0.21	mg/Kg	U		1	6010C
7440-23-5	Sodium	315	146	63.7	mg/Kg			1	6010C
7440-28-0	Thallium	6.2	6.2	0.79	mg/Kg	U		1	6010C
7440-62-2	Vanadium	12.4	0.52	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	303	2.1	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.13	0.021	0.0048	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-4 (2-4') Lab Sample ID: 480-224894-2

Lab Name: Eurofins Buffalo Job No.: 480-224894-1

SDG ID.:

Matrix: Solid Date Sampled: 10/28/2024 12:30

Reporting Basis: DRY Date Received: 10/28/2024 16:38

Preparation Batch Number: 730281 Instrument ID: ICAP3

% Solids: 88.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5800	11.2	9.6	mg/Kg			1	6010C
7440-36-0	Antimony	16.7	16.7	0.59	mg/Kg	U		1	6010C
7440-38-2	Arsenic	4.0	2.2	0.98	mg/Kg			1	6010C
7440-39-3	Barium	119	0.56	0.16	mg/Kg			1	6010C
7440-41-7	Beryllium	0.26	0.22	0.045	mg/Kg			1	6010C
7440-43-9	Cadmium	1.3	0.22	0.078	mg/Kg			1	6010C
7440-70-2	Calcium	77900	55.8	30.1	mg/Kg			1	6010C
7440-47-3	Chromium	8.7	0.56	0.40	mg/Kg			1	6010C
7440-48-4	Cobalt	2.8	0.56	0.11	mg/Kg			1	6010C
7440-50-8	Copper	14.5	1.1	0.64	mg/Kg			1	6010C
7439-89-6	Iron	12200	11.2	9.5	mg/Kg			1	6010C
7439-92-1	Lead	155	1.1	0.51	mg/Kg			1	6010C
7439-95-4	Magnesium	39400	22.3	9.5	mg/Kg			1	6010C
7439-96-5	Manganese	382	1.1	0.31	mg/Kg			1	6010C
7440-02-0	Nickel	6.8	5.6	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1610	33.5	27.0	mg/Kg			1	6010C
7782-49-2	Selenium	4.5	4.5	0.89	mg/Kg	U		1	6010C
7440-22-4	Silver	0.67	0.67	0.22	mg/Kg	U		1	6010C
7440-23-5	Sodium	260	156	68.4	mg/Kg			1	6010C
7440-28-0	Thallium	0.90	6.7	0.85	mg/Kg	J		1	6010C
7440-62-2	Vanadium	12.2	0.56	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	401	2.2	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.79	0.023	0.0054	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-7 (2-4')
Lab Sample ID: 480-224894-3
Lab Name: Eurofins Buffalo
Job No.: 480-224894-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/28/2024 12:00
Reporting Basis: DRY
Date Received: 10/28/2024 16:38
Preparation Batch Number: 730281
Instrument ID: ICAP3
% Solids: 92.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4540	11.2	9.6	mg/Kg			1	6010C
7440-36-0	Antimony	16.8	16.8	0.59	mg/Kg	U		1	6010C
7440-38-2	Arsenic	2.5	2.2	0.98	mg/Kg			1	6010C
7440-39-3	Barium	41.7	0.56	0.16	mg/Kg			1	6010C
7440-41-7	Beryllium	0.20	0.22	0.045	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.66	0.22	0.078	mg/Kg			1	6010C
7440-70-2	Calcium	104000	280	151	mg/Kg			5	6010C
7440-47-3	Chromium	5.9	0.56	0.40	mg/Kg			1	6010C
7440-48-4	Cobalt	2.2	0.56	0.11	mg/Kg			1	6010C
7440-50-8	Copper	10.2	1.1	0.64	mg/Kg			1	6010C
7439-89-6	Iron	5720	11.2	9.5	mg/Kg			1	6010C
7439-92-1	Lead	95.9	1.1	0.51	mg/Kg			1	6010C
7439-95-4	Magnesium	56600	112	47.4	mg/Kg			5	6010C
7439-96-5	Manganese	464	1.1	0.31	mg/Kg			1	6010C
7440-02-0	Nickel	5.9	5.6	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1240	33.6	27.1	mg/Kg			1	6010C
7782-49-2	Selenium	4.5	4.5	0.90	mg/Kg	U		1	6010C
7440-22-4	Silver	0.67	0.67	0.22	mg/Kg	U		1	6010C
7440-23-5	Sodium	475	157	68.6	mg/Kg			1	6010C
7440-28-0	Thallium	0.87	6.7	0.85	mg/Kg	J		1	6010C
7440-62-2	Vanadium	8.5	0.56	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	357	2.2	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.39	0.022	0.0050	mg/Kg			1	7471B

GENERAL CHEMISTRY

No data validation qualifiers were added

MKP 12/10/2024

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224894-1

SDG No.:

Project: The Nest Site Analysis - Soil

Client Sample ID	Lab Sample ID
BH-2 (2-4')	480-224894-1
BH-4 (2-4')	480-224894-2
BH-7 (2-4')	480-224894-3

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job Number: 480-224894-1

SDG No.:

Project: The Nest Site Analysis - Soil

Client Sample ID	Lab Sample ID
BH-2 (2-4')	480-224894-1
BH-4 (2-4')	480-224894-2
BH-7 (2-4')	480-224894-3

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-2 (2-4')
Lab Sample ID: 480-224894-1
Lab Name: Eurofins Buffalo
Job No.: 480-224894-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/28/2024 10:30
Reporting Basis: DRY
Date Received: 10/28/2024 16:38
Preparation Batch Number: 730702
Instrument ID: SEAL 1
% Solids: 93.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.93	0.93	0.45	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-4 (2-4')
Lab Sample ID: 480-224894-2
Lab Name: Eurofins Buffalo
Job No.: 480-224894-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/28/2024 12:30
Reporting Basis: DRY
Date Received: 10/28/2024 16:38
Preparation Batch Number: 730702
Instrument ID: SEAL 1
% Solids: 88.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.1	1.1	0.53	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-7 (2-4')
Lab Sample ID: 480-224894-3
Lab Name: Eurofins Buffalo
Job No.: 480-224894-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/28/2024 12:00
Reporting Basis: DRY
Date Received: 10/28/2024 16:38
Preparation Batch Number: 730702
Instrument ID: SEAL 1
% Solids: 92.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.94	0.94	0.45	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-2 (2-4')
Lab Sample ID: 480-224894-1
Lab Name: Eurofins Edison
Job No.: 480-224894-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/28/2024 10:30
Reporting Basis: DRY
Date Received: 10/28/2024 16:38
Preparation Batch Number: 1005289
Instrument ID: WetHexSpec
% Solids: 93.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.1	2.1	0.89	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-4 (2-4') Lab Sample ID: 480-224894-2

Lab Name: Eurofins Edison Job No.: 480-224894-1

SDG ID.:

Matrix: Solid Date Sampled: 10/28/2024 12:30

Reporting Basis: DRY Date Received: 10/28/2024 16:38

Preparation Batch Number: 1005289 Instrument ID: WetHexSpec

% Solids: 88.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.2	2.2	0.94	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-7 (2-4') Lab Sample ID: 480-224894-3

Lab Name: Eurofins Edison Job No.: 480-224894-1

SDG ID.:

Matrix: Solid Date Sampled: 10/28/2024 12:00

Reporting Basis: DRY Date Received: 10/28/2024 16:38

Preparation Batch Number: 1005289 Instrument ID: WetHexSpec

% Solids: 92.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.1	2.1	0.89	mg/Kg	U		1	7196A

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Syracuse

#225

Client Information

Client Contact: Jacob Cox
Company: Brydges Engineering in Environment & Energy DPC
Address: 960 Busti Ave Suite B-150
City: Buffalo
State, Zip: NY, 14213
Phone:
Email: jcox@be3corp.com
Project Name: The Nest Site Analysis - Soil
Site:

Sampler: Joseph Gembine
Phone: 716-249-6880
PWSID:

Due Date Requested:
TAT Requested (days):
Compliance Project: Δ Yes Δ No
PO #: Purchase Order not required
WO #:
Project #: 48028073
SSOW#:

Lab PM: Beninati, John
E-Mail: John.Beninati@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:

COC No: 480-199807-41205.2
Page: Page 2 of 3
Job #:

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 - TCL VOCs + TICs	6010C, 7471B, 8081B, 8082A, 8151A, 8270D	1633_Final - 1633 Standard List 40	7196A, 9012B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N			
BH-2 (2-4')	10-28-24	10.30	G	Solid			X	X	X	X		Added Hex Chrom + Cyanide
BH-4 (2-4')	10-28-24	12.30	G	Solid			X	X	X	X		
BH-7 (2-4')	10-28-24	2.00	G	Solid			X	X	X	X		
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

480-224894 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)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Joseph Gembine	10/28/24 16.38	BE3	LC	10/28/24 16.38	
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.4 IFC IR#5C

Ver: 05/06/2024

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90114.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-224894-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/11/2024			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: The Nest Site Analysis Soil	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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:						PFAS 8430
BH-2 (2-4') (480-224894-1)	10/28/24	10:30 Eastern	G	Solid			X	1	
BH-4 (2-4') (480-224894-2)	10/28/24	12:30 Eastern	G	Solid			X	1	
BH-7 (2-4') (480-224894-3)	10/28/24	12:00 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]	10/29/24 1500	TAS	MALISSA LOAR	10-30-24 930	
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:

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90117 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-224894-1
Address: 777 New Durham Road,	Due Date Requested: 11/11/2024			Preservation Codes:
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis Soil	Project #: 48028073			
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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH-2 (2-4') (480-224894-1)	10/28/24	10:30 Eastern	G	Solid			X	1	
BH-4 (2-4') (480-224894-2)	10/28/24	12:30 Eastern	G	Solid			X	1	
BH-7 (2-4') (480-224894-3)	10/28/24	12:00 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: Fedex
Relinquished by:	Date/Time: 10/29/24 1500	Company: TAB	Received by:	Date/Time: 10/30/24 10:50	Company
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:

IR 4 10-1.2

Ver 10/10/2024

Appendix B

Laboratory QC Documentation

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224894-1

SDG No.:

Lab Sample ID: CCVIS 480-730358/4 Calibration Date: 10/29/2024 19:47

Instrument ID: HP5977R Calib Start Date: 09/22/2024 11:52

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 09/22/2024 14:34

Lab File ID: R0678.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.686	2.031	0.1000	37.8	50.0	-24.4	50.0
Chloromethane	Ave	3.312	3.192	0.1000	48.2	50.0	-3.6	20.0
Vinyl chloride	Ave	2.039	2.073	0.1000	50.8	50.0	1.7	20.0
Butadiene	Ave	2.658	2.597		48.8	50.0	-2.3	20.0
Bromomethane	Ave	0.9916	0.9716	0.1000	49.0	50.0	-2.0	50.0
Chloroethane	Ave	1.082	1.180	0.1000	54.5	50.0	9.0	50.0
Trichlorofluoromethane	Ave	2.595	2.662	0.1000	51.3	50.0	2.6	20.0
Dichlorofluoromethane	Ave	2.828	3.217		56.9	50.0	13.7	20.0
Ethyl ether	Ave	1.284	1.175		45.7	50.0	-8.5	20.0
Acrolein	Ave	0.1435	0.1414		246	250	-1.5	50.0
1,1-Dichloroethene	Ave	1.092	1.012	0.1000	46.4	50.0	-7.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.354	1.342	0.1000	49.5	50.0	-0.9	20.0
Acetone	Ave	0.4029	0.4474	0.1000	278	250	11.1	50.0
Iodomethane	Ave	1.840	1.683		45.7	50.0	-8.5	20.0
Carbon disulfide	Ave	4.259	3.732	0.1000	43.8	50.0	-12.4	20.0
Allyl chloride	Ave	3.069	2.795		45.5	50.0	-8.9	20.0
Methyl acetate	Ave	1.054	1.029	0.1000	97.7	100	-2.3	50.0
Methylene Chloride	Lin1		1.243	0.1000	52.4	50.0	4.7	20.0
2-Methyl-2-propanol	Ave	0.1874	0.1806		482	500	-3.6	50.0
Methyl tert-butyl ether	Ave	3.884	3.581	0.1000	46.1	50.0	-7.8	20.0
trans-1,2-Dichloroethene	Ave	1.203	1.152	0.1000	47.9	50.0	-4.2	20.0
Acrylonitrile	Ave	0.5835	0.5742		492	500	-1.6	20.0
Hexane	Ave	2.991	2.622		43.8	50.0	-12.3	20.0
1,1-Dichloroethane	Ave	2.839	2.614	0.2000	46.0	50.0	-7.9	20.0
Vinyl acetate	Ave	3.000	2.748		91.6	100	-8.4	20.0
2,2-Dichloropropane	Ave	2.245	1.993		44.4	50.0	-11.2	20.0
cis-1,2-Dichloroethene	Ave	1.283	1.225	0.1000	47.8	50.0	-4.5	20.0
2-Butanone (MEK)	Ave	0.6463	0.6358	0.1000	246	250	-1.6	20.0
Chlorobromomethane	Ave	0.5365	0.5058		47.1	50.0	-5.7	20.0
Tetrahydrofuran	Ave	0.4792	0.4526		94.5	100	-5.5	20.0
Chloroform	Ave	2.473	2.203	0.2000	44.5	50.0	-10.9	20.0
1,1,1-Trichloroethane	Ave	2.544	2.161	0.1000	42.5	50.0	-15.0	20.0
Cyclohexane	Ave	3.803	3.544	0.1000	46.6	50.0	-6.8	20.0
Carbon tetrachloride	Ave	2.185	1.809	0.1000	41.4	50.0	-17.2	20.0
1,1-Dichloropropene	Ave	1.787	1.625		45.5	50.0	-9.1	20.0
Benzene	Ave	4.507	4.266	0.5000	47.3	50.0	-5.4	20.0
Isobutyl alcohol	Ave	0.0754	0.0733		1220	1250	-2.7	50.0
1,2-Dichloroethane	Ave	2.100	1.847	0.1000	44.0	50.0	-12.1	20.0
n-Heptane	Ave	3.199	2.753		43.0	50.0	-14.0	20.0
Trichloroethene	Ave	1.225	1.105	0.2000	45.1	50.0	-9.8	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730356/2-A

Matrix: Solid | Lab File ID: R0682.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 10/29/2024 21:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730358 | Units: ug/Kg

Preparation Batch No.: 730356 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.61
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.39
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.25
78-87-5	1,2-Dichloropropane	5.0	U	5.0	2.5
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.26
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.70
78-93-3	2-Butanone (MEK)	25	U	25	1.8
591-78-6	2-Hexanone	25	U	25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	1.6
67-64-1	Acetone	25	U	25	4.2
71-43-2	Benzene	5.0	U	5.0	0.25
75-27-4	Bromodichloromethane	5.0	U	5.0	0.67
75-25-2	Bromoform	5.0	U	5.0	2.5
74-83-9	Bromomethane	5.0	U	5.0	0.45
75-15-0	Carbon disulfide	5.0	U	5.0	2.5
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.48
108-90-7	Chlorobenzene	5.0	U	5.0	0.66
124-48-1	Dibromochloromethane	5.0	U	5.0	0.64
75-00-3	Chloroethane	5.0	U	5.0	1.1
67-66-3	Chloroform	0.576	J	5.0	0.31
74-87-3	Chloromethane	5.0	U	5.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.72
110-82-7	Cyclohexane	5.0	U	5.0	0.70
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730356/2-A

Matrix: Solid | Lab File ID: R0682.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 10/29/2024 21:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730358 | Units: ug/Kg

Preparation Batch No.: 730356 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	5.0	U	5.0	0.35
106-93-4	1,2-Dibromoethane	5.0	U	5.0	0.64
98-82-8	Isopropylbenzene	5.0	U	5.0	0.75
79-20-9	Methyl acetate	25	U	25	3.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.49
108-87-2	Methylcyclohexane	5.0	U	5.0	0.76
75-09-2	Methylene Chloride	3.90	J	5.0	2.3
100-42-5	Styrene	5.0	U	5.0	0.25
127-18-4	Tetrachloroethene	5.0	U	5.0	0.67
108-88-3	Toluene	5.0	U	5.0	0.38
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	2.2
79-01-6	Trichloroethene	5.0	U	5.0	1.1
75-69-4	Trichlorofluoromethane	5.0	U	5.0	0.47
75-01-4	Vinyl chloride	5.0	U	5.0	0.61
1330-20-7	Xylenes, Total	10	U	10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126
1868-53-7	Dibromofluoromethane (Surr)	97		60-140

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Lab Sample ID: CCVIS 480-730417/3 | Calibration Date: 10/30/2024 12:22

Instrument ID: HP5973X | Calib Start Date: 10/10/2024 14:18

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 17:13

Lab File ID: X00000033898.d | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.424	1.471	0.0100	41300	40000	3.3	20.0
2-Chloronaphthalene	Ave	1.129	1.147	0.8000	40700	40000	1.7	20.0
2-Nitroaniline	Ave	0.2912	0.3580	0.0100	49200	40000	22.9*	20.0
Dimethyl phthalate	Ave	1.240	1.449	0.0100	46700	40000	16.8	20.0
1,3-Dinitrobenzene	Lin2		0.1244	0.0100	41000	40000	2.5	20.0
2,6-Dinitrotoluene	Lin2		0.3102	0.2000	41600	40000	3.9	20.0
Acenaphthylene	Ave	1.732	1.828	0.9000	42200	40000	5.5	20.0
3-Nitroaniline	Lin2		0.3516	0.0100	42300	40000	5.7	20.0
Acenaphthene	Ave	1.160	1.177	0.9000	40600	40000	1.5	20.0
2,4-Dinitrophenol	Lin2		0.1602	0.0100	82700	80000	3.4	20.0
4-Nitrophenol	Lin2		0.1908	0.0100	91000	80000	13.8	20.0
Dibenzofuran	Ave	1.603	1.615	0.8000	40300	40000	0.7	20.0
2,4-Dinitrotoluene	Lin2		0.4329	0.2000	43100	40000	7.7	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.3156	0.0100	43300	40000	8.3	20.0
Diethyl phthalate	Ave	1.219	1.346	0.0100	44200	40000	10.4	20.0
Hexadecane	Lin2		0.8001	0.0100	44900	40000	12.3	20.0
Fluorene	Ave	1.298	1.309	0.9000	40300	40000	0.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.6376	0.6511	0.4000	40900	40000	2.1	20.0
4-Nitroaniline	Lin2		0.3559	0.0100	43100	40000	7.7	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1367	0.0100	84000	80000	5.0	20.0
Diphenylamine	Ave	0.6101	0.6410	0.0100	35900	34200	5.1	20.0
N-Nitrosodiphenylamine	Ave	0.5217	0.5481	0.0100	42000	40000	5.1	20.0
1,2-Diphenylhydrazine	Ave	0.7013	0.7835	0.0100	44700	40000	11.7	20.0
trans-Azobenzene	Ave	0.7013	0.7835	0.0100	44700	40000	11.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2076	0.2193	0.1000	42200	40000	5.6	20.0
Hexachlorobenzene	Ave	0.2389	0.2566	0.1000	43000	40000	7.4	20.0
Atrazine	Lin2		0.3779	0.0100	43700	40000	9.2	20.0
Pentachlorophenol	Lin2		0.1545	0.0500	92500	80000	15.6	50.0
n-Octadecane	Lin2		0.4665	0.0100	45700	40000	14.3	20.0
Phenanthrene	Lin2		1.078	0.7000	41200	40000	3.1	20.0
Anthracene	Ave	1.073	1.121	0.7000	41800	40000	4.5	20.0
Carbazole	Ave	0.9349	0.9829	0.0100	42100	40000	5.1	20.0
Di-n-butyl phthalate	Lin2		1.275	0.0100	44700	40000	11.8	20.0
Fluoranthene	Ave	1.095	1.173	0.6000	42900	40000	7.2	20.0
Benzidine	Lin2		0.8615	0.0100	76400	80000	-4.5	50.0
Pyrene	Ave	1.271	1.301	0.6000	40900	40000	2.3	20.0
Butyl benzyl phthalate	Lin2		0.6201	0.0100	44600	40000	11.4	20.0
3,3'-Dichlorobenzidine	Lin2		0.6019	0.0100	81500	80000	1.9	50.0
Benzo[a]anthracene	Lin2		1.277	0.8000	41200	40000	3.0	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.9239	0.0100	45100	40000	12.7	20.0
Chrysene	Lin2		1.182	0.7000	39200	40000	-2.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Lab Sample ID: CCVIS 480-730417/3 | Calibration Date: 10/30/2024 12:22

Instrument ID: HP5973X | Calib Start Date: 10/10/2024 14:18

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 17:13

Lab File ID: X00000033898.d | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin2		1.568	0.0100	48700	40000	21.8*	20.0
Benzo[b]fluoranthene	Lin2		1.162	0.7000	43000	40000	7.5	20.0
Benzo[k]fluoranthene	Lin2		1.225	0.7000	40700	40000	1.7	20.0
Benzo[a]pyrene	Lin2		1.074	0.7000	43200	40000	8.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.339	1.452	0.5000	43300	40000	8.4	20.0
Dibenz(a,h)anthracene	Ave	1.094	1.177	0.4000	43000	40000	7.6	20.0
Benzo[g,h,i]perylene	Lin2		1.147	0.5000	41500	40000	3.8	20.0
2-Fluorophenol (Surr)	Ave	1.232	1.420	0.0100	46100	40000	15.2	20.0
Phenol-d5 (Surr)	Ave	1.479	1.641	0.0100	44400	40000	10.9	20.0
Nitrobenzene-d5 (Surr)	Lin2		0.3956	0.0100	43900	40000	9.8	20.0
2-Fluorobiphenyl (Surr)	Ave	1.347	1.367	0.0100	40600	40000	1.5	20.0
2,4,6-Tribromophenol (Surr)	Lin2		0.1378	0.0100	44200	40000	10.5	20.0
p-Terphenyl-d14 (Surr)	Ave	1.024	1.063	0.0100	41500	40000	3.8	20.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730353/1-A

Matrix: Solid | Lab File ID: X00000033902.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 10/29/2024 17:50

Sample wt/vol: 30(g) | Date Analyzed: 10/30/2024 14:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730417 | Units: ug/Kg

Preparation Batch No.: 730353 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	170	U	170	25
205-99-2	Benzo[b]fluoranthene	170	U	170	27
191-24-2	Benzo[g,h,i]perylene	170	U	170	18
207-08-9	Benzo[k]fluoranthene	170	U	170	22
92-52-4	Biphenyl	170	U	170	25
108-60-1	bis (2-chloroisopropyl) ether	170	U	170	34
111-91-1	Bis(2-chloroethoxy)methane	170	U	170	36
111-44-4	Bis(2-chloroethyl)ether	170	U	170	22
117-81-7	Bis(2-ethylhexyl) phthalate	170	U	170	58
85-68-7	Butyl benzyl phthalate	170	U	170	28
105-60-2	Caprolactam	170	U	170	51
86-74-8	Carbazole	170	U	170	20
218-01-9	Chrysene	170	U	170	38
53-70-3	Dibenz(a,h)anthracene	170	U	170	30
132-64-9	Dibenzofuran	170	U	170	20
84-66-2	Diethyl phthalate	170	U	170	22
131-11-3	Dimethyl phthalate	47.4	J	170	20
84-74-2	Di-n-butyl phthalate	170	U	170	29
117-84-0	Di-n-octyl phthalate	170	U	170	20
206-44-0	Fluoranthene	170	U	170	18
86-73-7	Fluorene	170	U	170	20
118-74-1	Hexachlorobenzene	170	U	170	23
87-68-3	Hexachlorobutadiene	170	U	170	25
77-47-4	Hexachlorocyclopentadiene	170	U	170	23
67-72-1	Hexachloroethane	170	U	170	22
193-39-5	Indeno[1,2,3-cd]pyrene	170	U	170	21
78-59-1	Isophorone	170	U	170	36
91-20-3	Naphthalene	170	U	170	22
98-95-3	Nitrobenzene	170	U	170	19
621-64-7	N-Nitrosodi-n-propylamine	170	U	170	29
86-30-6	N-Nitrosodiphenylamine	170	U	170	140

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-2 (2-4') Lab Sample ID: 480-224894-1

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 10/31/2024 10:41 Date Analyzed (2): 10/31/2024 10:41

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		3.23	3.21	3.27	7.8		42.2
	2		3.74	3.71	3.77	12		

FORM X 8081B

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-4 (2-4') Lab Sample ID: 480-224894-2

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 10/31/2024 11:00 Date Analyzed (2): 10/31/2024 11:00

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		3.23	3.21	3.27	8.7		40.0
	2		3.74	3.71	3.77	13		
Lindane	1		3.51	3.49	3.55	7.6		57.0
	2		4.09	4.08	4.14	14		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224894-1

SDG No.:

Client Sample ID: BH-7 (2-4') Lab Sample ID: 480-224894-3

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 10/31/2024 11:20 Date Analyzed (2): 10/31/2024 11:20

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		3.24	3.21	3.27	11		20.1
	2		3.73	3.71	3.77	13		
Lindane	1		3.51	3.49	3.55	8.5		98.5
	2		4.09	4.08	4.14	25		
beta-BHC	1		3.59	3.56	3.62	23		27.8
	2		4.18	4.15	4.21	31		
delta-BHC	1		3.75	3.73	3.79	8.6		19.0
	2		4.48	4.47	4.53	10		
4,4'-DDT	1		6.11	6.07	6.13	8.6		34.4
	2		7.03	6.99	7.05	12		

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224894-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730372/1-A

Matrix: Solid | Lab File ID: 5_75168.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 10/30/2024 07:05

Sample wt/vol: 30(g) | Date Analyzed: 10/31/2024 09:23

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730567 | Units: ug/Kg

Preparation Batch No.: 730372 | Instrument ID: HP6890-5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	1.7	U	1.7	0.32
72-55-9	4,4'-DDE	1.7	U	1.7	0.35
50-29-3	4,4'-DDT	1.7	U	1.7	0.39
309-00-2	Aldrin	1.7	U	1.7	0.41
319-84-6	alpha-BHC	0.365	J	1.7	0.30
319-85-7	beta-BHC	1.7	U	1.7	0.30
5103-71-9	Chlordane (.alpha.)	1.7	U	1.7	0.83
319-86-8	delta-BHC	0.475	J	1.7	0.31
60-57-1	Dieldrin	1.7	U	1.7	0.40
959-98-8	Endosulfan I	1.7	U	1.7	0.32
33213-65-9	Endosulfan II	1.7	U	1.7	0.30
1031-07-8	Endosulfan sulfate	1.7	U	1.7	0.31
72-20-8	Endrin	1.7	U	1.7	0.33
76-44-8	Heptachlor	1.7	U	1.7	0.36
58-89-9	Lindane	0.389	J	1.7	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	87		45-120
877-09-8	Tetrachloro-m-xylene	63		30-124

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 480-224894-1

SDG No.:

Lab Sample ID: CCVL 240-633666/1 Calibration Date: 11/02/2024 22:28

Instrument ID: LCMS03 Calib Start Date: 10/28/2024 09:35

GC Column: ID: Calib End Date: 10/28/2024 11:30

Lab File ID: samples1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoroundecanoic acid (PFUnA)	AveID	0.8313	0.8732		0.0525	0.0500	5.0	30.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.720	3.281		0.225	0.186	20.6	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9844	1.281		0.0625	0.0480	30.2*	30.0
Perfluorododecanoic acid (PFDoA)	AveID	1.014	0.9845		0.0485	0.0500	-2.9	30.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9219	1.200		0.0651	0.0500	30.1*	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.253	1.541		0.0593	0.0482	23.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	1.219	1.175		0.0482	0.0500	-3.6	30.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	3.348	3.740		0.210	0.188	11.7	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	1.262	1.221		0.0484	0.0500	-3.2	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.155	1.306		0.0547	0.0484	13.1	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	0.1179	0.1409		0.598	0.500	19.5	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	0.9456	1.191		0.0630	0.0500	26.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	0.0983	0.1194		0.608	0.500	21.5	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.9128	1.161		0.0636	0.0500	27.2	30.0
13C4 PFBA	Ave	0.8624	0.7860		2.28	2.50	-8.9	30.0
13C5 PFPeA	Ave	0.5702	0.4345		0.953	1.25	-23.8	30.0
M2-4:2 FTS	Ave	0.0924	0.1069		1.35	1.17	15.7	30.0
13C5 PFHxA	Ave	1.225	0.9711		0.495	0.625	-20.8	30.0
13C3 PFBS	Ave	1.405	1.422		0.588	0.581	1.1	30.0
13C3 HFPO-DA	Ave	0.5472	0.4455		2.04	2.50	-18.6	30.0
13C4 PFHpA	Ave	1.087	0.8858		0.509	0.625	-18.5	30.0
M2-6:2 FTS	Ave	0.0598	0.0668		1.33	1.19	11.7	30.0
13C8 PFOA	Ave	5.471	5.037		0.575	0.625	-7.9	30.0
13C3 PFHxS	Ave	1.067	1.030		0.571	0.591	-3.5	30.0
13C9 PFNA	Ave	1.053	1.013		0.300	0.313	-3.9	30.0
M2-8:2 FTS	Ave	0.0552	0.0608		1.32	1.20	10.2	30.0
d3-NMeFOSAA	Ave	0.3940	0.3541		1.12	1.25	-10.1	30.0
13C6 PFDA	Ave	1.112	1.119		0.315	0.313	0.7	30.0
d5-NEtFOSAA	Ave	0.3664	0.3517		1.20	1.25	-4.0	30.0
13C8 PFOS	Ave	1.258	1.123		0.534	0.598	-10.7	30.0
13C7 PFUnA	Ave	1.354	1.450		0.335	0.313	7.1	30.0
13C2-PFDoDA	Ave	1.111	1.373		0.386	0.313	23.5	30.0
13C8 PFOSA	Ave	0.9139	0.7398		0.506	0.625	-19.1	30.0

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

The NEST Site
333 1st Street
Niagara Falls, NY 14303
BCP Site # C932183

SDG: **J224950-1**
7 soil samples

Prepared for:

BE3 Corp.
960 Busti Avenue
Suite 150-B
Buffalo, NY 14213
Attention: Jacob Cox

December 2024

EDU *Environmental Data Usability* *10028 Deer Park Dr. Dansville, NY 14437* *585-991-9156*

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REVIEWER'S NARRATIVE
BE3 SDG J224950-1: The NEST Site – Niagara Falls, NY

The data associated with this Sample Delivery Group (SDG) J224950-1, analyzed by Eurofins Buffalo, Buffalo, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/10/2024

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	The NEST Site 333 1st Street Niagara Falls, NY 14303 BCP Site #: C932183
SAMPLING DATE:	October 29, 2024
SAMPLE TYPE:	7 soil samples
LABORATORY:	Eurofins Buffalo Buffalo, NY
SDG No.:	J224950-1

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 7 soil samples collected on October 29, 2024. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), Pesticides, PCBs, Herbicides, PFASs, Metals, TCN, and Hexavalent Chromium (Cr+6).

All analyses were performed by Eurofins Buffalo, Buffalo, NY and analyzed as SDG J224950-1. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-8. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG J224950-1, seven samples were analyzed and results were reported for 1428 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have rejected/qualified and the corresponding QC reasons.

NOTE: 1) As noted by the laboratory, the soil samples were not collected following SW846 5035A protocol. This adds an element of uncertainty to the analytical results for volatile organic analytes (VOAs). Although not specifically indicated on the final data sheets with a "J" flag, the VOA analytical results should be considered estimated, but usable.

Table 6-1 8260 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-10 (2-4') VP-4 (2-4') VP-4 QA/QC (2-4') VP-1 (2-4') VP-3 (2-4')	Chloroform	CRQL-U	Analyte detected in method blank	Data changed to non-detect
VP-1 (2-4')	1,2,4-Trichlorobenzene 2-Butanone Acetone Methylcyclohexane	J detects UJ non-detects	MS/MSD rec < QC limit	Data are estimated
VP-3 (2-4')	1,2,4-Trichlorobenzene 1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Bromoform 2-Butanone Carbon tetrachloride Methyl cyclohexane 1,2-Dibromoethane Isopropylbenzene Tetrachloroethene trans-1,3-Dichloropropene	J detects UJ non-detects	MS/MSD rec < QC limit	Data are estimated
BH-10 (2-4') VP-4 (2-4') VP-4 QA/QC (2-4')	MIBK	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

VP-2 (2-4') VP-1 (2-4') VP-3 Native (8-9')				
VP-3 (2-4')	Cyclohexane	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-2 8270 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-10 (2-4') VP-4 (2-4') VP-4 QA/QC (2-4') VP-2 (2-4') VP-1 (2-4') VP-3 (2-4') VP-3 Native (8-9')	1,4-Dioxane 2-Nitroanlinie	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-10 (2-4') VP-1 (2-4')	d-BHC	J detects	% D for 2nd column confirmation > 25 %	Data are estimated
BH-10 (2-4') VP-4 (2-4') VP-4 QA/QC (2-4')	4,4'-DDT	CRQL-U	Analyte detected in method blank	Data changed to non-detect

VP-2 (2-4') VP-1 (2-4') VP-3 (2-4') VP-3 Native (8-9')				

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-5 Herbicides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-10 (2-4') VP-4 (2-4') VP-4 QA/QC (2-4') VP-2 (2-4') VP-1 (2-4') VP-3 (2-4') VP-3 Native (8-9')	PFHpS PFOS PFNS PFDS	J detects UJ non-detects	LCCV % D > QC limit	Data are estimated

Table 6-7 Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
VP-1 (2-4')	Sb, As, Be, Cd, Cr, Co, Cu, Ni, Se, Ag, and Tl	J- detects UJ non-detects	MS/MSD rec < QC limit	Data may be biased low
VP-1 (2-4')	Al, Ba, Pb, Mn, V, and Zn	J detects UJ non-detects	MS/MSD rec < QC limit and Serial dilution > 15 %	Data are estimated
VP-1 (2-4')	Cu, Fe, and K	J detects	Serial dilution > 15 %	Data are estimated
VP-3 (2-4')	As, Ba, Be, Cd, Cr, Co, Ni, K, Se, Ag, and Na	J- detects UJ non-detects	MS/MSD rec < QC limit	Data may be biased low
VP-3 (2-4')	Sb, Mg, V, and Zn	J detects UJ non-detects	MS/MSD rec < QC limit and % RPD > 35 % QC limit	Data are estimated
VP-3 (2-4')	Ca, Cu, Pb, Mn, Zn, and Hg	J detects	MS/MSD rec > QC limit and/or % RPD > 35 % QC limit	Data are estimated
VP-4 (2-4') VP-4 QA/QC (2-4')	Cu and Hg	J detects	% D for Field Dups > 50 % QC limit	Data are estimated

Table 6-8 TCN and Cr+6

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
VP-1 (2-4') VP-3 (2-4')	TCN	J- detects UJ non-detects	MS/MSD rec < QC limit	Data may be biased low

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo NY 14213

Generated 11/15/2024 11:39 AM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-224950-1

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.

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Job Narrative
480-224950-1

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 10/30/2024 4:22 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

Receipt Exceptions
COC lists MS for sample 5 and MSD for sample 7. Lab assigned MS/MSD to both sample points pending client/PM resolutuon.

VP-1 (2-4') (480-224950-5), VP-1 (2-4') (480-224950-5[MS]), VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[MSD])

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-731001 recovered above the upper control limit for 4-Methyl-2-pentanone (MIBK). The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-4 QA/QC (2-4') (480-224950-3), VP-2 (2-4') (480-224950-4), VP-1 (2-4') (480-224950-5) and VP-3 Native (8-9') (480-224950-9).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-731000 recovered above the upper control limit for Cyclohexane. The sample(s) associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated sample is impacted: VP-3 (2-4') (480-224950-7).

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: Due to the matrix, the following samples could not be concentrated to the final method required volume: VP-3 (2-4') (480-224950-7), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[MSD]). The reporting limits (RLs) are elevated proportionately.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-1 (2-4') (480-224950-5), VP-1 (2-4') (480-224950-5[MS]), VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[MSD]). 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 sample contained an allowable number of surrogate compounds outside limits: VP-4 QA/QC (2-4') (480-224950-3). These results have been reported and qualified.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-730560 and

analytical batch 480-730591 was outside control limits. The following samples were diluted due to the nature of the sample matrix: VP-1 (2-4') (480-224950-5[MS]), VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following samples required a dilution due to the nature of the sample matrix: BH-10 (2-4') (480-224950-1) and VP-1 (2-4') (480-224950-5). 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: The following sample was diluted due to the nature of the sample matrix: VP-3 (2-4') (480-224950-7). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730591 recovered above the upper control limit for 1,4-Dioxane and 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-4 QA/QC (2-4') (480-224950-3), VP-2 (2-4') (480-224950-4), VP-1 (2-4') (480-224950-5), VP-3 (2-4') (480-224950-7) and VP-3 Native (8-9') (480-224950-9).

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: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-4 QA/QC (2-4') (480-224950-3), VP-1 (2-4') (480-224950-5), VP-1 (2-4') (480-224950-5[MS]), VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[MSD]).

Method 8081B: The following samples were diluted due to the nature of the sample matrix: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-4 QA/QC (2-4') (480-224950-3), VP-1 (2-4') (480-224950-5) and VP-3 (2-4') (480-224950-7). 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: VP-1 (2-4') (480-224950-5[MS]), VP-1 (2-4') (480-224950-5[MSD]), VP-3 (2-4') (480-224950-7[MS]) and VP-3 (2-4') (480-224950-7[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 method blank for preparation batch 480-730565 and analytical batch 480-730754 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. The following associated samples are impacted: BH-10 (2-4') (480-224950-1), VP-4 (2-4') (480-224950-2), VP-4 QA/QC (2-4') (480-224950-3), VP-2 (2-4') (480-224950-4), VP-1 (2-4') (480-224950-5), VP-3 (2-4') (480-224950-7) and VP-3 Native (8-9') (480-224950-9).

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 240-633665 recovered above the upper control limit for Perfluoroheptanesulfonic acid (PFHpS), Perfluorononanesulfonic acid (PFNS) and Perfluorodecanesulfonic acid (PFDS). The samples associated with this CCVL were below the reporting limit for the affected analytes; therefore, the data have been reported.

Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-633665 recovered

above the upper control limit for Perfluorooctanesulfonic acid (PFOS). The samples associated with this CCVL were non-detects for the affected analytes; therefore, the data have been reported.

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

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

General Chemistry
Method 9012B: The following samples ms/msd recovery is ND due to the samples reporting limit being 1.1.Due to this reanalysis was not performed.

VP-1 (2-4') (480-224950-5) and VP-3 (2-4') (480-224950-7)

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224950-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224950-1	BH-10 (2-4')	Solid	10/29/24 09:30	10/30/24 16:22
480-224950-2	VP-4 (2-4')	Solid	10/29/24 10:45	10/30/24 16:22
480-224950-3	VP-4 QA/QC (2-4')	Solid	10/29/24 10:45	10/30/24 16:22
480-224950-4	VP-2 (2-4')	Solid	10/29/24 13:30	10/30/24 16:22
480-224950-5	VP-1 (2-4')	Solid	10/29/24 14:00	10/30/24 16:22
480-224950-7	VP-3 (2-4')	Solid	10/29/24 15:30	10/30/24 16:22
480-224950-9	VP-3 Native (8-9')	Solid	10/29/24 15:30	10/30/24 16:22

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: R0800.D

Analysis Method: 8260C | Date Collected: 10/29/2024 09:30

Sample wt/vol: 5.18(g) | Date Analyzed: 11/03/2024 21:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 9.2 % Solids: 90.8 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.3	U vs	5.3	0.39	
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U vs	5.3	0.86	
79-00-5	1,1,2-Trichloroethane	5.3	U vs	5.3	0.69	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U vs	5.3	1.2	
75-34-3	1,1-Dichloroethane	5.3	U vs	5.3	0.65	
75-35-4	1,1-Dichloroethene	5.3	U vs	5.3	0.65	
120-82-1	1,2,4-Trichlorobenzene	5.3	U vs	5.3	0.32	
96-12-8	1,2-Dibromo-3-Chloropropane	5.3	U vs	5.3	2.7	
95-50-1	1,2-Dichlorobenzene	5.3	U vs	5.3	0.42	
107-06-2	1,2-Dichloroethane	5.3	U vs	5.3	0.27	
78-87-5	1,2-Dichloropropane	5.3	U vs	5.3	2.7	
541-73-1	1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	
106-46-7	1,4-Dichlorobenzene	5.3	U vs	5.3	0.74	
78-93-3	2-Butanone (MEK)	27	U vs	27	1.9	
591-78-6	2-Hexanone	27	U vs	27	2.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.7	UJ
67-64-1	Acetone	27	U vs	27	4.5	
71-43-2	Benzene	0.29	J vs	5.3	0.26	
75-27-4	Bromodichloromethane	5.3	U vs	5.3	0.71	
75-25-2	Bromoform	5.3	U vs	5.3	2.7	
74-83-9	Bromomethane	5.3	U vs	5.3	0.48	
75-15-0	Carbon disulfide	5.3	U vs	5.3	2.7	
56-23-5	Carbon tetrachloride	5.3	U vs	5.3	0.51	
108-90-7	Chlorobenzene	5.3	U vs	5.3	0.70	
124-48-1	Dibromochloromethane	5.3	U vs	5.3	0.68	
75-00-3	Chloroethane	5.3	U vs	5.3	1.2	
67-66-3	Chloroform	5.3 UJ 0.55	J B vs	5.3	0.33	UJ
74-87-3	Chloromethane	5.3	U vs	5.3	0.32	
156-59-2	cis-1,2-Dichloroethene	5.3	U vs	5.3	0.68	
10061-01-5	cis-1,3-Dichloropropene	5.3	U vs	5.3	0.77	
110-82-7	Cyclohexane	5.3	U vs	5.3	0.74	

MKP 12/10/2024

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: R0800.D

Analysis Method: 8260C | Date Collected: 10/29/2024 09:30

Sample wt/vol: 5.18(g) | Date Analyzed: 11/03/2024 21:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 9.2 % Solids: 90.8 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.3	U vs	5.3	0.44
100-41-4	Ethylbenzene	0.62	J vs	5.3	0.37
106-93-4	1,2-Dibromoethane	5.3	U vs	5.3	0.68
98-82-8	Isopropylbenzene	5.3	U vs	5.3	0.80
79-20-9	Methyl acetate	27	U vs	27	3.2
1634-04-4	Methyl tert-butyl ether	5.3	U vs	5.3	0.52
108-87-2	Methylcyclohexane	5.3	U vs	5.3	0.81
75-09-2	Methylene Chloride	2.6	J vs	5.3	2.4
100-42-5	Styrene	5.3	U vs	5.3	0.27
127-18-4	Tetrachloroethene	5.3	U vs	5.3	0.71
108-88-3	Toluene	3.3	J vs	5.3	0.40
156-60-5	trans-1,2-Dichloroethene	5.3	U vs	5.3	0.55
10061-02-6	trans-1,3-Dichloropropene	5.3	U vs	5.3	2.3
79-01-6	Trichloroethene	5.3	U vs	5.3	1.2
75-69-4	Trichlorofluoromethane	5.3	U vs	5.3	0.50
75-01-4	Vinyl chloride	5.3	U vs	5.3	0.65
1330-20-7	Xylenes, Total	5.3	J vs	11	0.89

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		64-126
460-00-4	4-Bromofluorobenzene (Surr)	82		72-126
1868-53-7	Dibromofluoromethane (Surr)	95		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: R0800.D

Analysis Method: 8260C | Date Collected: 10/29/2024 09:30

Sample wt/vol: 5.18(g) | Date Analyzed: 11/03/2024 21:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 9.2 % Solids: 90.8 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

Number TICs Found: 3 | TIC Result Total: 11.6

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
179601-23-1	m-Xylene & p-Xylene	8.48	3.8	J	98%
95-47-6	o-Xylene	8.91	1.5	J	97%
526-73-8	Benzene, 1,2,3-trimethyl-	10.28	6.3	T J N	94%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: R0801.D

Analysis Method: 8260C | Date Collected: 10/29/2024 10:45

Sample wt/vol: 5.16(g) | Date Analyzed: 11/03/2024 21:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 10.4 % Solids: 89.6 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.4	U vs	5.4	0.39	
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U vs	5.4	0.88	
79-00-5	1,1,2-Trichloroethane	5.4	U vs	5.4	0.70	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	5.4	1.2	
75-34-3	1,1-Dichloroethane	5.4	U vs	5.4	0.66	
75-35-4	1,1-Dichloroethene	5.4	U vs	5.4	0.66	
120-82-1	1,2,4-Trichlorobenzene	5.4	U vs	5.4	0.33	
96-12-8	1,2-Dibromo-3-Chloropropane	5.4	U vs	5.4	2.7	
95-50-1	1,2-Dichlorobenzene	5.4	U vs	5.4	0.42	
107-06-2	1,2-Dichloroethane	5.4	U vs	5.4	0.27	
78-87-5	1,2-Dichloropropane	5.4	U vs	5.4	2.7	
541-73-1	1,3-Dichlorobenzene	5.4	U vs	5.4	0.28	
106-46-7	1,4-Dichlorobenzene	5.4	U vs	5.4	0.76	
78-93-3	2-Butanone (MEK)	27	U vs	27	2.0	
591-78-6	2-Hexanone	27	U vs	27	2.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.8	UJ
67-64-1	Acetone	4.9	J vs	27	4.6	
71-43-2	Benzene	5.4	U vs	5.4	0.26	
75-27-4	Bromodichloromethane	5.4	U vs	5.4	0.72	
75-25-2	Bromoform	5.4	U vs	5.4	2.7	
74-83-9	Bromomethane	5.4	U vs	5.4	0.49	
75-15-0	Carbon disulfide	5.4	U vs	5.4	2.7	
56-23-5	Carbon tetrachloride	5.4	U vs	5.4	0.52	
108-90-7	Chlorobenzene	5.4	U vs	5.4	0.71	
124-48-1	Dibromochloromethane	5.4	U vs	5.4	0.69	
75-00-3	Chloroethane	5.4	U vs	5.4	1.2	
67-66-3	Chloroform	5.4 UJ 0.55	J B vs	5.4	0.33	UJ
74-87-3	Chloromethane	5.4	U vs	5.4	0.33	
156-59-2	cis-1,2-Dichloroethene	5.4	U vs	5.4	0.69	
10061-01-5	cis-1,3-Dichloropropene	5.4	U vs	5.4	0.78	
110-82-7	Cyclohexane	5.4	U vs	5.4	0.76	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: R0801.D

Analysis Method: 8260C | Date Collected: 10/29/2024 10:45

Sample wt/vol: 5.16(g) | Date Analyzed: 11/03/2024 21:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 10.4 % Solids: 89.6 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.4	U vs	5.4	0.45
100-41-4	Ethylbenzene	5.4	U vs	5.4	0.37
106-93-4	1,2-Dibromoethane	5.4	U vs	5.4	0.69
98-82-8	Isopropylbenzene	5.4	U vs	5.4	0.82
79-20-9	Methyl acetate	27	U vs	27	3.3
1634-04-4	Methyl tert-butyl ether	5.4	U vs	5.4	0.53
108-87-2	Methylcyclohexane	5.4	U vs	5.4	0.82
75-09-2	Methylene Chloride	5.4	U vs	5.4	2.5
100-42-5	Styrene	5.4	U vs	5.4	0.27
127-18-4	Tetrachloroethene	5.4	U vs	5.4	0.73
108-88-3	Toluene	2.1	J vs	5.4	0.41
156-60-5	trans-1,2-Dichloroethene	5.4	U vs	5.4	0.56
10061-02-6	trans-1,3-Dichloropropene	5.4	U vs	5.4	2.4
79-01-6	Trichloroethene	5.4	U vs	5.4	1.2
75-69-4	Trichlorofluoromethane	5.4	U vs	5.4	0.51
75-01-4	Vinyl chloride	5.4	U vs	5.4	0.66
1330-20-7	Xylenes, Total	3.2	J vs	11	0.91

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		64-126
460-00-4	4-Bromofluorobenzene (Surr)	90		72-126
1868-53-7	Dibromofluoromethane (Surr)	92		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: R0801.D

Analysis Method: 8260C | Date Collected: 10/29/2024 10:45

Sample wt/vol: 5.16(g) | Date Analyzed: 11/03/2024 21:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 10.4 % Solids: 89.6 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

Number TICs Found: 2 | TIC Result Total: 3.22

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
179601-23-1	m-Xylene & p-Xylene	8.48	2.5	J	97%
95-47-6	o-Xylene	8.91	0.72	J	96%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: R0802.D

Analysis Method: 8260C | Date Collected: 10/29/2024 10:45

Sample wt/vol: 5.01(g) | Date Analyzed: 11/03/2024 22:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.7 % Solids: 85.3 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.9	U vs	5.9	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U vs	5.9	0.95	
79-00-5	1,1,2-Trichloroethane	5.9	U vs	5.9	0.76	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U vs	5.9	1.3	
75-34-3	1,1-Dichloroethane	5.9	U vs	5.9	0.71	
75-35-4	1,1-Dichloroethene	5.9	U vs	5.9	0.72	
120-82-1	1,2,4-Trichlorobenzene	5.9	U vs	5.9	0.36	
96-12-8	1,2-Dibromo-3-Chloropropane	5.9	U vs	5.9	2.9	
95-50-1	1,2-Dichlorobenzene	5.9	U vs	5.9	0.46	
107-06-2	1,2-Dichloroethane	5.9	U vs	5.9	0.29	
78-87-5	1,2-Dichloropropane	5.9	U vs	5.9	2.9	
541-73-1	1,3-Dichlorobenzene	5.9	U vs	5.9	0.30	
106-46-7	1,4-Dichlorobenzene	5.9	U vs	5.9	0.82	
78-93-3	2-Butanone (MEK)	29	U vs	29	2.1	
591-78-6	2-Hexanone	29	U vs	29	2.9	
108-10-1	4-Methyl-2-pentanone (MIBK)	29	U vs	29	1.9	UJ
67-64-1	Acetone	5.0	J vs	29	4.9	
71-43-2	Benzene	5.9	U vs	5.9	0.29	
75-27-4	Bromodichloromethane	5.9	U vs	5.9	0.78	
75-25-2	Bromoform	5.9	U vs	5.9	2.9	
74-83-9	Bromomethane	5.9	U vs	5.9	0.53	
75-15-0	Carbon disulfide	5.9	U vs	5.9	2.9	
56-23-5	Carbon tetrachloride	5.9	U vs	5.9	0.57	
108-90-7	Chlorobenzene	5.9	U vs	5.9	0.77	
124-48-1	Dibromochloromethane	5.9	U vs	5.9	0.75	
75-00-3	Chloroethane	5.9	U vs	5.9	1.3	
67-66-3	Chloroform	5.9 UJ 0.58	J B vs	5.9	0.36	UJ
74-87-3	Chloromethane	5.9	U vs	5.9	0.35	
156-59-2	cis-1,2-Dichloroethene	5.9	U vs	5.9	0.75	
10061-01-5	cis-1,3-Dichloropropene	5.9	U vs	5.9	0.84	
110-82-7	Cyclohexane	5.9	U vs	5.9	0.82	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: R0802.D

Analysis Method: 8260C | Date Collected: 10/29/2024 10:45

Sample wt/vol: 5.01(g) | Date Analyzed: 11/03/2024 22:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.7 % Solids: 85.3 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.9	U vs	5.9	0.48
100-41-4	Ethylbenzene	5.9	U vs	5.9	0.40
106-93-4	1,2-Dibromoethane	5.9	U vs	5.9	0.75
98-82-8	Isopropylbenzene	5.9	U vs	5.9	0.88
79-20-9	Methyl acetate	29	U vs	29	3.5
1634-04-4	Methyl tert-butyl ether	5.9	U vs	5.9	0.57
108-87-2	Methylcyclohexane	5.9	U vs	5.9	0.89
75-09-2	Methylene Chloride	2.8	J vs	5.9	2.7
100-42-5	Styrene	5.9	U vs	5.9	0.29
127-18-4	Tetrachloroethene	5.9	U vs	5.9	0.79
108-88-3	Toluene	1.9	J vs	5.9	0.44
156-60-5	trans-1,2-Dichloroethene	5.9	U vs	5.9	0.60
10061-02-6	trans-1,3-Dichloropropene	5.9	U vs	5.9	2.6
79-01-6	Trichloroethene	5.9	U vs	5.9	1.3
75-69-4	Trichlorofluoromethane	5.9	U vs	5.9	0.55
75-01-4	Vinyl chloride	5.9	U vs	5.9	0.71
1330-20-7	Xylenes, Total	1.5	J vs	12	0.98

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		64-126
460-00-4	4-Bromofluorobenzene (Surr)	90		72-126
1868-53-7	Dibromofluoromethane (Surr)	93		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: R0802.D

Analysis Method: 8260C | Date Collected: 10/29/2024 10:45

Sample wt/vol: 5.01(g) | Date Analyzed: 11/03/2024 22:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.7 % Solids: 85.3 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

Number TICs Found: 1 | TIC Result Total: 1.5

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
179601-23-1	m-Xylene & p-Xylene	8.48	1.5	J	97%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: R0803.D

Analysis Method: 8260C | Date Collected: 10/29/2024 13:30

Sample wt/vol: 5.11(g) | Date Analyzed: 11/03/2024 22:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 6.5 % Solids: 93.5 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.2	U vs	5.2	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U vs	5.2	0.85	
79-00-5	1,1,2-Trichloroethane	5.2	U vs	5.2	0.68	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U vs	5.2	1.2	
75-34-3	1,1-Dichloroethane	5.2	U vs	5.2	0.64	
75-35-4	1,1-Dichloroethene	5.2	U vs	5.2	0.64	
120-82-1	1,2,4-Trichlorobenzene	5.2	U vs	5.2	0.32	
96-12-8	1,2-Dibromo-3-Chloropropane	5.2	U vs	5.2	2.6	
95-50-1	1,2-Dichlorobenzene	5.2	U vs	5.2	0.41	
107-06-2	1,2-Dichloroethane	5.2	U vs	5.2	0.26	
78-87-5	1,2-Dichloropropane	5.2	U vs	5.2	2.6	
541-73-1	1,3-Dichlorobenzene	5.2	U vs	5.2	0.27	
106-46-7	1,4-Dichlorobenzene	5.2	U vs	5.2	0.73	
78-93-3	2-Butanone (MEK)	26	U vs	26	1.9	
591-78-6	2-Hexanone	26	U vs	26	2.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	UJ
67-64-1	Acetone	6.5	J vs	26	4.4	
71-43-2	Benzene	5.2	U vs	5.2	0.26	
75-27-4	Bromodichloromethane	5.2	U vs	5.2	0.70	
75-25-2	Bromoform	5.2	U vs	5.2	2.6	
74-83-9	Bromomethane	5.2	U vs	5.2	0.47	
75-15-0	Carbon disulfide	5.2	U vs	5.2	2.6	
56-23-5	Carbon tetrachloride	5.2	U vs	5.2	0.51	
108-90-7	Chlorobenzene	5.2	U vs	5.2	0.69	
124-48-1	Dibromochloromethane	5.2	U vs	5.2	0.67	
75-00-3	Chloroethane	5.2	U vs	5.2	1.2	
67-66-3	Chloroform	5.2	U vs	5.2	0.32	
74-87-3	Chloromethane	5.2	U vs	5.2	0.32	
156-59-2	cis-1,2-Dichloroethene	5.2	U vs	5.2	0.67	
10061-01-5	cis-1,3-Dichloropropene	5.2	U vs	5.2	0.75	
110-82-7	Cyclohexane	5.2	U vs	5.2	0.73	
75-71-8	Dichlorodifluoromethane	5.2	U vs	5.2	0.43	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: R0803.D

Analysis Method: 8260C | Date Collected: 10/29/2024 13:30

Sample wt/vol: 5.11(g) | Date Analyzed: 11/03/2024 22:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 6.5 % Solids: 93.5 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	5.2	U vs	5.2	0.36
106-93-4	1,2-Dibromoethane	5.2	U vs	5.2	0.67
98-82-8	Isopropylbenzene	5.2	U vs	5.2	0.79
79-20-9	Methyl acetate	26	U vs	26	3.2
1634-04-4	Methyl tert-butyl ether	5.2	U vs	5.2	0.51
108-87-2	Methylcyclohexane	5.2	U vs	5.2	0.80
75-09-2	Methylene Chloride	5.2	U vs	5.2	2.4
100-42-5	Styrene	5.2	U vs	5.2	0.26
127-18-4	Tetrachloroethene	5.2	U vs	5.2	0.70
108-88-3	Toluene	1.3	J vs	5.2	0.40
156-60-5	trans-1,2-Dichloroethene	5.2	U vs	5.2	0.54
10061-02-6	trans-1,3-Dichloropropene	5.2	U vs	5.2	2.3
79-01-6	Trichloroethene	5.2	U vs	5.2	1.2
75-69-4	Trichlorofluoromethane	5.2	U vs	5.2	0.49
75-01-4	Vinyl chloride	5.2	U vs	5.2	0.64
1330-20-7	Xylenes, Total	0.97	J vs	10	0.88

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-126
460-00-4	4-Bromofluorobenzene (Surr)	91		72-126
1868-53-7	Dibromofluoromethane (Surr)	95		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: R0803.D

Analysis Method: 8260C | Date Collected: 10/29/2024 13:30

Sample wt/vol: 5.11(g) | Date Analyzed: 11/03/2024 22:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 6.5 % Solids: 93.5 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

Number TICs Found: 1 | TIC Result Total: 0.97

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
179601-23-1	m-Xylene & p-Xylene	8.48	0.97	J	96%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: R0804.D

Analysis Method: 8260C | Date Collected: 10/29/2024 14:00

Sample wt/vol: 5.19(g) | Date Analyzed: 11/03/2024 23:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.8 % Solids: 91.2 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.3	U vs	5.3	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U vs	5.3	0.86	
79-00-5	1,1,2-Trichloroethane	5.3	U vs	5.3	0.69	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U vs	5.3	1.2	
75-34-3	1,1-Dichloroethane	5.3	U vs	5.3	0.64	
75-35-4	1,1-Dichloroethene	5.3	U vs	5.3	0.65	
120-82-1	1,2,4-Trichlorobenzene	5.3	U F1 vs	5.3	0.32	UJ
96-12-8	1,2-Dibromo-3-Chloropropane	5.3	U vs	5.3	2.6	
95-50-1	1,2-Dichlorobenzene	5.3	U vs	5.3	0.41	
107-06-2	1,2-Dichloroethane	5.3	U vs	5.3	0.27	
78-87-5	1,2-Dichloropropane	5.3	U vs	5.3	2.6	
541-73-1	1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	
106-46-7	1,4-Dichlorobenzene	5.3	U vs	5.3	0.74	
78-93-3	2-Butanone (MEK)	26	U F1 vs	26	1.9	UJ
591-78-6	2-Hexanone	26	U vs	26	2.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	UJ
67-64-1	Acetone	9.0	J F1 vs	26	4.4	UJ
71-43-2	Benzene	5.3	U vs	5.3	0.26	
75-27-4	Bromodichloromethane	5.3	U vs	5.3	0.71	
75-25-2	Bromoform	5.3	U vs	5.3	2.6	
74-83-9	Bromomethane	5.3	U vs	5.3	0.48	
75-15-0	Carbon disulfide	5.3	U vs	5.3	2.6	
56-23-5	Carbon tetrachloride	5.3	U vs	5.3	0.51	
108-90-7	Chlorobenzene	5.3	U vs	5.3	0.70	
124-48-1	Dibromochloromethane	5.3	U vs	5.3	0.68	
75-00-3	Chloroethane	5.3	U vs	5.3	1.2	
67-66-3	Chloroform	5.3 UJ 0.51	~~J B~~ vs	5.3	0.33	UJ
74-87-3	Chloromethane	5.3	U vs	5.3	0.32	
156-59-2	cis-1,2-Dichloroethene	5.3	U vs	5.3	0.68	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: R0804.D

Analysis Method: 8260C | Date Collected: 10/29/2024 14:00

Sample wt/vol: 5.19(g) | Date Analyzed: 11/03/2024 23:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.8 % Solids: 91.2 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
10061-01-5	cis-1,3-Dichloropropene	5.3	U vs	5.3	0.76	
110-82-7	Cyclohexane	5.3	U vs	5.3	0.74	
75-71-8	Dichlorodifluoromethane	5.3	U vs	5.3	0.44	
100-41-4	Ethylbenzene	5.3	U vs	5.3	0.36	
106-93-4	1,2-Dibromoethane	5.3	U vs	5.3	0.68	
98-82-8	Isopropylbenzene	5.3	U F1 vs	5.3	0.80	
79-20-9	Methyl acetate	26	U vs	26	3.2	
1634-04-4	Methyl tert-butyl ether	5.3	U vs	5.3	0.52	
108-87-2	Methylcyclohexane	5.3	U F1 vs	5.3	0.80	UJ
75-09-2	Methylene Chloride	2.4	J vs	5.3	2.4	
100-42-5	Styrene	5.3	U vs	5.3	0.26	
127-18-4	Tetrachloroethene	3.9	J vs	5.3	0.71	
108-88-3	Toluene	2.0	J vs	5.3	0.40	
156-60-5	trans-1,2-Dichloroethene	5.3	U vs	5.3	0.55	
10061-02-6	trans-1,3-Dichloropropene	5.3	U vs	5.3	2.3	
79-01-6	Trichloroethene	5.3	U vs	5.3	1.2	
75-69-4	Trichlorofluoromethane	5.3	U vs	5.3	0.50	
75-01-4	Vinyl chloride	5.3	U vs	5.3	0.64	
1330-20-7	Xylenes, Total	2.1	J vs	11	0.89	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		64-126
460-00-4	4-Bromofluorobenzene (Surr)	88		72-126
1868-53-7	Dibromofluoromethane (Surr)	90		60-140

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: R0804.D

Analysis Method: 8260C | Date Collected: 10/29/2024 14:00

Sample wt/vol: 5.19(g) | Date Analyzed: 11/03/2024 23:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.8 % Solids: 91.2 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

Number TICs Found: 6 | TIC Result Total: 185.42

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
179601-23-1	m-Xylene & p-Xylene	8.48	1.4	J	96%
95-47-6	o-Xylene	8.90	0.72	J	93%
275-51-4	Azulene	12.63	120	T J N	97%
91-57-6	Naphthalene, 2-methyl-	13.54	37	T J N	94%
4453-90-1	1,4-Methanonaphthalene, 1,4-dihydro-	13.70	20	T J N	94%
581-42-0	Naphthalene, 2,6-dimethyl-	14.48	6.3	T J N	98%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: M16301.D

Analysis Method: 8260C | Date Collected: 10/29/2024 15:30

Sample wt/vol: 5.09(g) | Date Analyzed: 11/03/2024 20:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.6 % Solids: 91.4 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.4	U F1 vs	5.4	0.39	
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U F1 vs	5.4	0.87	
79-00-5	1,1,2-Trichloroethane	5.4	U vs	5.4	0.70	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	5.4	1.2	
75-34-3	1,1-Dichloroethane	5.4	U vs	5.4	0.66	
75-35-4	1,1-Dichloroethene	5.4	U vs	5.4	0.66	
120-82-1	1,2,4-Trichlorobenzene	5.4	U F1 vs	5.4	0.33	UJ
96-12-8	1,2-Dibromo-3-Chloropropane	5.4	U F1 vs	5.4	2.7	UJ
95-50-1	1,2-Dichlorobenzene	5.4	U F1 vs	5.4	0.42	UJ
107-06-2	1,2-Dichloroethane	5.4	U vs	5.4	0.27	
78-87-5	1,2-Dichloropropane	5.4	U vs	5.4	2.7	
541-73-1	1,3-Dichlorobenzene	5.4	U F1 vs	5.4	0.28	UJ
106-46-7	1,4-Dichlorobenzene	5.4	U F1 vs	5.4	0.75	UJ
78-93-3	2-Butanone (MEK)	27	U F1 vs	27	2.0	UJ
591-78-6	2-Hexanone	27	U vs	27	2.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.8	
67-64-1	Acetone	27	U vs	27	4.5	
71-43-2	Benzene	5.4	U vs	5.4	0.26	
75-27-4	Bromodichloromethane	5.4	U F1 vs	5.4	0.72	
75-25-2	Bromoform	5.4	U F1 vs	5.4	2.7	UJ
74-83-9	Bromomethane	5.4	U vs	5.4	0.48	
75-15-0	Carbon disulfide	5.4	U vs	5.4	2.7	
56-23-5	Carbon tetrachloride	5.4	U F1 vs	5.4	0.52	UJ
108-90-7	Chlorobenzene	5.4	U F1 vs	5.4	0.71	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: M16301.D

Analysis Method: 8260C | Date Collected: 10/29/2024 15:30

Sample wt/vol: 5.09(g) | Date Analyzed: 11/03/2024 20:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.6 % Solids: 91.4 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
124-48-1	Dibromochloromethane	5.4	U F1 vs	5.4	0.69	
75-00-3	Chloroethane	5.4	U vs	5.4	1.2	
67-66-3	Chloroform	0.62 5.4 UJ	J B F1 vs	5.4	0.33	UJ
74-87-3	Chloromethane	5.4	U vs	5.4	0.32	
156-59-2	cis-1,2-Dichloroethene	5.4	U F1 vs	5.4	0.69	
10061-01-5	cis-1,3-Dichloropropene	5.4	U F1 vs	5.4	0.77	
110-82-7	Cyclohexane	5.4	U vs	5.4	0.75	UJ
75-71-8	Dichlorodifluoromethane	5.4	U vs	5.4	0.44	
100-41-4	Ethylbenzene	5.4	U F1 vs	5.4	0.37	
106-93-4	1,2-Dibromoethane	5.4	U F1 vs	5.4	0.69	UJ
98-82-8	Isopropylbenzene	5.4	U F1 vs	5.4	0.81	UJ
79-20-9	Methyl acetate	27	U vs	27	3.2	
1634-04-4	Methyl tert-butyl ether	5.4	U vs	5.4	0.53	
108-87-2	Methylcyclohexane	5.4	U F1 vs	5.4	0.82	UJ
75-09-2	Methylene Chloride	5.4	U vs	5.4	2.5	
100-42-5	Styrene	5.4	U F1 vs	5.4	0.27	
127-18-4	Tetrachloroethene	5.4	U F1 vs	5.4	0.72	UJ
108-88-3	Toluene	0.77	J vs	5.4	0.41	
156-60-5	trans-1,2-Dichloroethene	5.4	U F1 vs	5.4	0.55	
10061-02-6	trans-1,3-Dichloropropene	5.4	U F1 vs	5.4	2.4	UJ
79-01-6	Trichloroethene	5.4	U F1 vs	5.4	1.2	
75-69-4	Trichlorofluoromethane	5.4	U vs	5.4	0.51	
75-01-4	Vinyl chloride	5.4	U vs	5.4	0.66	
1330-20-7	Xylenes, Total	11	U vs	11	0.90	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: M16301.D

Analysis Method: 8260C | Date Collected: 10/29/2024 15:30

Sample wt/vol: 5.09(g) | Date Analyzed: 11/03/2024 20:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.6 % Solids: 91.4 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		64-126
460-00-4	4-Bromofluorobenzene (Surr)	82		72-126
1868-53-7	Dibromofluoromethane (Surr)	93		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: M16301.D

Analysis Method: 8260C | Date Collected: 10/29/2024 15:30

Sample wt/vol: 5.09(g) | Date Analyzed: 11/03/2024 20:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.6 % Solids: 91.4 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: R0805.D

Analysis Method: 8260C | Date Collected: 10/29/2024 15:30

Sample wt/vol: 5.15(g) | Date Analyzed: 11/03/2024 23:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.7 % Solids: 88.3 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.5	U vs	5.5	0.40	
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U vs	5.5	0.89	
79-00-5	1,1,2-Trichloroethane	5.5	U vs	5.5	0.71	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U vs	5.5	1.3	
75-34-3	1,1-Dichloroethane	5.5	U vs	5.5	0.67	
75-35-4	1,1-Dichloroethene	5.5	U vs	5.5	0.67	
120-82-1	1,2,4-Trichlorobenzene	5.5	U vs	5.5	0.33	
96-12-8	1,2-Dibromo-3-Chloropropane	5.5	U vs	5.5	2.7	
95-50-1	1,2-Dichlorobenzene	5.5	U vs	5.5	0.43	
107-06-2	1,2-Dichloroethane	5.5	U vs	5.5	0.28	
78-87-5	1,2-Dichloropropane	5.5	U vs	5.5	2.7	
541-73-1	1,3-Dichlorobenzene	5.5	U vs	5.5	0.28	
106-46-7	1,4-Dichlorobenzene	5.5	U vs	5.5	0.77	
78-93-3	2-Butanone (MEK)	27	U vs	27	2.0	
591-78-6	2-Hexanone	27	U vs	27	2.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.8	UJ
67-64-1	Acetone	27	U vs	27	4.6	
71-43-2	Benzene	5.5	U vs	5.5	0.27	
75-27-4	Bromodichloromethane	5.5	U vs	5.5	0.74	
75-25-2	Bromoform	5.5	U vs	5.5	2.7	
74-83-9	Bromomethane	5.5	U vs	5.5	0.49	
75-15-0	Carbon disulfide	5.5	U vs	5.5	2.7	
56-23-5	Carbon tetrachloride	5.5	U vs	5.5	0.53	
108-90-7	Chlorobenzene	5.5	U vs	5.5	0.73	
124-48-1	Dibromochloromethane	5.5	U vs	5.5	0.70	
75-00-3	Chloroethane	5.5	U vs	5.5	1.2	
67-66-3	Chloroform	0.59 5.5 UJ	J B vs	5.5	0.34	UJ
74-87-3	Chloromethane	5.5	U vs	5.5	0.33	
156-59-2	cis-1,2-Dichloroethene	5.5	U vs	5.5	0.70	
10061-01-5	cis-1,3-Dichloropropene	5.5	U vs	5.5	0.79	
110-82-7	Cyclohexane	5.5	U vs	5.5	0.77	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: R0805.D

Analysis Method: 8260C | Date Collected: 10/29/2024 15:30

Sample wt/vol: 5.15(g) | Date Analyzed: 11/03/2024 23:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.7 % Solids: 88.3 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.5	U vs	5.5	0.45
100-41-4	Ethylbenzene	5.5	U vs	5.5	0.38
106-93-4	1,2-Dibromoethane	5.5	U vs	5.5	0.71
98-82-8	Isopropylbenzene	5.5	U vs	5.5	0.83
79-20-9	Methyl acetate	27	U vs	27	3.3
1634-04-4	Methyl tert-butyl ether	5.5	U vs	5.5	0.54
108-87-2	Methylcyclohexane	5.5	U vs	5.5	0.84
75-09-2	Methylene Chloride	5.5	U vs	5.5	2.5
100-42-5	Styrene	5.5	U vs	5.5	0.27
127-18-4	Tetrachloroethene	5.5	U vs	5.5	0.74
108-88-3	Toluene	0.99	J vs	5.5	0.42
156-60-5	trans-1,2-Dichloroethene	5.5	U vs	5.5	0.57
10061-02-6	trans-1,3-Dichloropropene	5.5	U vs	5.5	2.4
79-01-6	Trichloroethene	5.5	U vs	5.5	1.2
75-69-4	Trichlorofluoromethane	5.5	U vs	5.5	0.52
75-01-4	Vinyl chloride	5.5	U vs	5.5	0.67
1330-20-7	Xylenes, Total	11	U vs	11	0.92

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		64-126
460-00-4	4-Bromofluorobenzene (Surr)	91		72-126
1868-53-7	Dibromofluoromethane (Surr)	93		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: R0805.D

Analysis Method: 8260C | Date Collected: 10/29/2024 15:30

Sample wt/vol: 5.15(g) | Date Analyzed: 11/03/2024 23:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.7 % Solids: 88.3 | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: X00000033955.d

Analysis Method: 8270D | Date Collected: 10/29/2024 09:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.27(g) | Date Analyzed: 10/31/2024 20:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	2200	U	2200	1200	UJ
95-95-4	2,4,5-Trichlorophenol	3700	U	3700	1000	
88-06-2	2,4,6-Trichlorophenol	3700	U	3700	740	
120-83-2	2,4-Dichlorophenol	3700	U	3700	390	
105-67-9	2,4-Dimethylphenol	3700	U	3700	890	
51-28-5	2,4-Dinitrophenol	36000	U	36000	17000	
121-14-2	2,4-Dinitrotoluene	3700	U	3700	760	
606-20-2	2,6-Dinitrotoluene	3700	U	3700	440	
91-58-7	2-Chloronaphthalene	3700	U	3700	610	
95-57-8	2-Chlorophenol	7200	U	7200	680	
91-57-6	2-Methylnaphthalene	3700	U	3700	740	
95-48-7	2-Methylphenol	3700	U	3700	440	
88-74-4	2-Nitroaniline	7200	U	7200	550	UJ
88-75-5	2-Nitrophenol	3700	U	3700	1000	
91-94-1	3,3'-Dichlorobenzidine	7200	U	7200	4400	
99-09-2	3-Nitroaniline	7200	U	7200	1000	
534-52-1	4,6-Dinitro-2-methylphenol	7200	U	7200	3700	
101-55-3	4-Bromophenyl phenyl ether	3700	U	3700	520	
59-50-7	4-Chloro-3-methylphenol	3700	U	3700	920	
106-47-8	4-Chloroaniline	3700	U	3700	920	
7005-72-3	4-Chlorophenyl phenyl ether	3700	U	3700	460	
106-44-5	4-Methylphenol	7200	U	7200	440	
100-01-6	4-Nitroaniline	7200	U	7200	1900	
100-02-7	4-Nitrophenol	7200	U	7200	2600	
83-32-9	Acenaphthene	3700	U	3700	550	
208-96-8	Acenaphthylene	3700	U	3700	480	
98-86-2	Acetophenone	3700	U	3700	500	
120-12-7	Anthracene	3700	U	3700	920	
1912-24-9	Atrazine	3700	U	3700	1300	
100-52-7	Benzaldehyde	3700	U	3700	2900	
56-55-3	Benzo[a]anthracene	1400	J	3700	370	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: X00000033955.d

Analysis Method: 8270D | Date Collected: 10/29/2024 09:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.27(g) | Date Analyzed: 10/31/2024 20:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	1500	J	3700	550
205-99-2	Benzo[b]fluoranthene	1900	J	3700	590
191-24-2	Benzo[g,h,i]perylene	1200	J	3700	390
207-08-9	Benzo[k]fluoranthene	710	J	3700	480
92-52-4	Biphenyl	3700	U	3700	550
108-60-1	bis (2-chloroisopropyl) ether	3700	U	3700	740
111-91-1	Bis(2-chloroethoxy)methane	3700	U	3700	790
111-44-4	Bis(2-chloroethyl)ether	3700	U	3700	480
117-81-7	Bis(2-ethylhexyl) phthalate	3700	U	3700	1300
85-68-7	Butyl benzyl phthalate	3700	U	3700	610
105-60-2	Caprolactam	3700	U	3700	1100
86-74-8	Carbazole	3700	U	3700	440
218-01-9	Chrysene	1500	J	3700	830
53-70-3	Dibenz(a,h)anthracene	3700	U	3700	650
132-64-9	Dibenzofuran	3700	U	3700	440
84-66-2	Diethyl phthalate	3700	U	3700	480
131-11-3	Dimethyl phthalate	3700	U	3700	440
84-74-2	Di-n-butyl phthalate	3700	U	3700	630
117-84-0	Di-n-octyl phthalate	3700	U	3700	440
206-44-0	Fluoranthene	3100	J	3700	390
86-73-7	Fluorene	3700	U	3700	440
118-74-1	Hexachlorobenzene	3700	U	3700	500
87-68-3	Hexachlorobutadiene	3700	U	3700	550
77-47-4	Hexachlorocyclopentadiene	3700	U	3700	500
67-72-1	Hexachloroethane	3700	U	3700	480
193-39-5	Indeno[1,2,3-cd]pyrene	980	J	3700	460
78-59-1	Isophorone	3700	U	3700	790
91-20-3	Naphthalene	3700	U	3700	480
98-95-3	Nitrobenzene	3700	U	3700	410
621-64-7	N-Nitrosodi-n-propylamine	3700	U	3700	630
86-30-6	N-Nitrosodiphenylamine	3700	U	3700	3000

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: X00000033955.d

Analysis Method: 8270D | Date Collected: 10/29/2024 09:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.27(g) | Date Analyzed: 10/31/2024 20:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	7200	U	7200	3700
85-01-8	Phenanthrene	2300	J	3700	550
108-95-2	Phenol	3700	U	3700	570
129-00-0	Pyrene	2500	J	3700	440

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	85		26-143
321-60-8	2-Fluorobiphenyl (Surr)	85		50-121
367-12-4	2-Fluorophenol (Surr)	66		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	86		40-121
4165-62-2	Phenol-d5 (Surr)	76		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	89		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: X00000033956.d

Analysis Method: 8270D | Date Collected: 10/29/2024 10:45

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.42(g) | Date Analyzed: 10/31/2024 21:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 10.4 % Solids: 89.6 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	550	U	550	300	UJ
95-95-4	2,4,5-Trichlorophenol	940	U	940	250	
88-06-2	2,4,6-Trichlorophenol	940	U	940	190	
120-83-2	2,4-Dichlorophenol	940	U	940	99	
105-67-9	2,4-Dimethylphenol	940	U	940	230	
51-28-5	2,4-Dinitrophenol	9100	U	9100	4300	
121-14-2	2,4-Dinitrotoluene	940	U	940	190	
606-20-2	2,6-Dinitrotoluene	940	U	940	110	
91-58-7	2-Chloronaphthalene	940	U	940	150	
95-57-8	2-Chlorophenol	1800	U	1800	170	
91-57-6	2-Methylnaphthalene	940	U	940	190	
95-48-7	2-Methylphenol	940	U	940	110	
88-74-4	2-Nitroaniline	1800	U	1800	140	UJ
88-75-5	2-Nitrophenol	940	U	940	260	
91-94-1	3,3'-Dichlorobenzidine	1800	U	1800	1100	
99-09-2	3-Nitroaniline	1800	U	1800	260	
534-52-1	4,6-Dinitro-2-methylphenol	1800	U	1800	940	
101-55-3	4-Bromophenyl phenyl ether	940	U	940	130	
59-50-7	4-Chloro-3-methylphenol	940	U	940	230	
106-47-8	4-Chloroaniline	940	U	940	230	
7005-72-3	4-Chlorophenyl phenyl ether	940	U	940	120	
106-44-5	4-Methylphenol	1800	U	1800	110	
100-01-6	4-Nitroaniline	1800	U	1800	490	
100-02-7	4-Nitrophenol	1800	U	1800	650	
83-32-9	Acenaphthene	940	U	940	140	
208-96-8	Acenaphthylene	940	U	940	120	
98-86-2	Acetophenone	940	U	940	130	
120-12-7	Anthracene	940	U	940	230	
1912-24-9	Atrazine	940	U	940	320	
100-52-7	Benzaldehyde	940	U	940	740	
56-55-3	Benzo[a]anthracene	940	U	940	94	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: X00000033956.d

Analysis Method: 8270D | Date Collected: 10/29/2024 10:45

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.42(g) | Date Analyzed: 10/31/2024 21:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 10.4 % Solids: 89.6 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	940	U	940	140
205-99-2	Benzo[b]fluoranthene	940	U	940	150
191-24-2	Benzo[g,h,i]perylene	190	J	940	99
207-08-9	Benzo[k]fluoranthene	940	U	940	120
92-52-4	Biphenyl	940	U	940	140
108-60-1	bis (2-chloroisopropyl) ether	940	U	940	190
111-91-1	Bis(2-chloroethoxy)methane	940	U	940	200
111-44-4	Bis(2-chloroethyl)ether	940	U	940	120
117-81-7	Bis(2-ethylhexyl) phthalate	510	J	940	320
85-68-7	Butyl benzyl phthalate	940	U	940	150
105-60-2	Caprolactam	940	U	940	280
86-74-8	Carbazole	940	U	940	110
218-01-9	Chrysene	940	U	940	210
53-70-3	Dibenz(a,h)anthracene	940	U	940	170
132-64-9	Dibenzofuran	940	U	940	110
84-66-2	Diethyl phthalate	940	U	940	120
131-11-3	Dimethyl phthalate	940	U	940	110
84-74-2	Di-n-butyl phthalate	940	U	940	160
117-84-0	Di-n-octyl phthalate	940	U	940	110
206-44-0	Fluoranthene	130	J	940	99
86-73-7	Fluorene	940	U	940	110
118-74-1	Hexachlorobenzene	940	U	940	130
87-68-3	Hexachlorobutadiene	940	U	940	140
77-47-4	Hexachlorocyclopentadiene	940	U	940	130
67-72-1	Hexachloroethane	940	U	940	120
193-39-5	Indeno[1,2,3-cd]pyrene	940	U	940	120
78-59-1	Isophorone	940	U	940	200
91-20-3	Naphthalene	940	U	940	120
98-95-3	Nitrobenzene	940	U	940	100
621-64-7	N-Nitrosodi-n-propylamine	940	U	940	160
86-30-6	N-Nitrosodiphenylamine	940	U	940	760

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: X00000033956.d

Analysis Method: 8270D | Date Collected: 10/29/2024 10:45

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.42(g) | Date Analyzed: 10/31/2024 21:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 10.4 % Solids: 89.6 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	1800	U	1800	940
85-01-8	Phenanthrene	940	U	940	140
108-95-2	Phenol	940	U	940	140
129-00-0	Pyrene	150	J	940	110

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	87		26-143
321-60-8	2-Fluorobiphenyl (Surr)	93		50-121
367-12-4	2-Fluorophenol (Surr)	87		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	88		40-121
4165-62-2	Phenol-d5 (Surr)	86		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	91		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: X00000033957.d

Analysis Method: 8270D | Date Collected: 10/29/2024 10:45

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.36(g) | Date Analyzed: 10/31/2024 21:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 14.7 % Solids: 85.3 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	120	U	120	64	UJ
95-95-4	2,4,5-Trichlorophenol	200	U	200	53	
88-06-2	2,4,6-Trichlorophenol	200	U	200	39	
120-83-2	2,4-Dichlorophenol	200	U	200	21	
105-67-9	2,4-Dimethylphenol	200	U	200	48	
51-28-5	2,4-Dinitrophenol	1900	U	1900	910	
121-14-2	2,4-Dinitrotoluene	200	U	200	41	
606-20-2	2,6-Dinitrotoluene	200	U	200	23	
91-58-7	2-Chloronaphthalene	200	U	200	32	
95-57-8	2-Chlorophenol	380	U	380	36	
91-57-6	2-Methylnaphthalene	200	U	200	39	
95-48-7	2-Methylphenol	200	U	200	23	
88-74-4	2-Nitroaniline	380	U	380	29	UJ
88-75-5	2-Nitrophenol	200	U	200	56	
91-94-1	3,3'-Dichlorobenzidine	380	U	380	230	
99-09-2	3-Nitroaniline	380	U	380	54	
534-52-1	4,6-Dinitro-2-methylphenol	380	U	380	200	
101-55-3	4-Bromophenyl phenyl ether	200	U	200	28	
59-50-7	4-Chloro-3-methylphenol	200	U	200	49	
106-47-8	4-Chloroaniline	200	U	200	49	
7005-72-3	4-Chlorophenyl phenyl ether	200	U	200	24	
106-44-5	4-Methylphenol	380	U	380	23	
100-01-6	4-Nitroaniline	380	U	380	100	
100-02-7	4-Nitrophenol	380	U	380	140	
83-32-9	Acenaphthene	200	U	200	29	
208-96-8	Acenaphthylene	200	U	200	25	
98-86-2	Acetophenone	200	U	200	27	
120-12-7	Anthracene	200	U	200	49	
1912-24-9	Atrazine	200	U	200	68	
100-52-7	Benzaldehyde	200	U	200	160	
56-55-3	Benzo[a]anthracene	200	U	200	20	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: X00000033957.d

Analysis Method: 8270D | Date Collected: 10/29/2024 10:45

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.36(g) | Date Analyzed: 10/31/2024 21:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 14.7 % Solids: 85.3 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	200	U	200	29
205-99-2	Benzo[b]fluoranthene	200	U	200	31
191-24-2	Benzo[g,h,i]perylene	200	U	200	21
207-08-9	Benzo[k]fluoranthene	200	U	200	25
92-52-4	Biphenyl	200	U	200	29
108-60-1	bis (2-chloroisopropyl) ether	200	U	200	39
111-91-1	Bis(2-chloroethoxy)methane	200	U	200	42
111-44-4	Bis(2-chloroethyl)ether	200	U	200	25
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	200	67
85-68-7	Butyl benzyl phthalate	200	U	200	32
105-60-2	Caprolactam	200	U	200	59
86-74-8	Carbazole	200	U	200	23
218-01-9	Chrysene	200	U	200	44
53-70-3	Dibenz(a,h)anthracene	200	U	200	35
132-64-9	Dibenzofuran	200	U	200	23
84-66-2	Diethyl phthalate	200	U	200	25
131-11-3	Dimethyl phthalate	200	U	200	23
84-74-2	Di-n-butyl phthalate	200	U	200	34
117-84-0	Di-n-octyl phthalate	200	U	200	23
206-44-0	Fluoranthene	200	U	200	21
86-73-7	Fluorene	200	U	200	23
118-74-1	Hexachlorobenzene	200	U	200	27
87-68-3	Hexachlorobutadiene	200	U	200	29
77-47-4	Hexachlorocyclopentadiene	200	U	200	27
67-72-1	Hexachloroethane	200	U	200	25
193-39-5	Indeno[1,2,3-cd]pyrene	200	U	200	24
78-59-1	Isophorone	200	U	200	42
91-20-3	Naphthalene	200	U	200	25
98-95-3	Nitrobenzene	200	U	200	22
621-64-7	N-Nitrosodi-n-propylamine	200	U	200	34
86-30-6	N-Nitrosodiphenylamine	200	U	200	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: X00000033957.d

Analysis Method: 8270D | Date Collected: 10/29/2024 10:45

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.36(g) | Date Analyzed: 10/31/2024 21:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 14.7 % Solids: 85.3 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	380	U	380	200
85-01-8	Phenanthrene	200	U	200	29
108-95-2	Phenol	200	U	200	30
129-00-0	Pyrene	200	U	200	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	58		26-143
321-60-8	2-Fluorobiphenyl (Surr)	48	S1-	50-121
367-12-4	2-Fluorophenol (Surr)	44		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	44		40-121
4165-62-2	Phenol-d5 (Surr)	47		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	63		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: X00000033958.d

Analysis Method: 8270D | Date Collected: 10/29/2024 13:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.78(g) | Date Analyzed: 10/31/2024 21:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 6.5 % Solids: 93.5 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	100	U	100	57	UJ
95-95-4	2,4,5-Trichlorophenol	180	U	180	48	
88-06-2	2,4,6-Trichlorophenol	180	U	180	35	
120-83-2	2,4-Dichlorophenol	180	U	180	19	
105-67-9	2,4-Dimethylphenol	180	U	180	43	
51-28-5	2,4-Dinitrophenol	1700	U	1700	820	
121-14-2	2,4-Dinitrotoluene	180	U	180	36	
606-20-2	2,6-Dinitrotoluene	180	U	180	21	
91-58-7	2-Chloronaphthalene	180	U	180	29	
95-57-8	2-Chlorophenol	340	U	340	32	
91-57-6	2-Methylnaphthalene	180	U	180	35	
95-48-7	2-Methylphenol	180	U	180	21	
88-74-4	2-Nitroaniline	340	U	340	26	UJ
88-75-5	2-Nitrophenol	180	U	180	50	
91-94-1	3,3'-Dichlorobenzidine	340	U	340	210	
99-09-2	3-Nitroaniline	340	U	340	49	
534-52-1	4,6-Dinitro-2-methylphenol	340	U	340	180	
101-55-3	4-Bromophenyl phenyl ether	180	U	180	25	
59-50-7	4-Chloro-3-methylphenol	180	U	180	44	
106-47-8	4-Chloroaniline	180	U	180	44	
7005-72-3	4-Chlorophenyl phenyl ether	180	U	180	22	
106-44-5	4-Methylphenol	340	U	340	21	
100-01-6	4-Nitroaniline	340	U	340	93	
100-02-7	4-Nitrophenol	340	U	340	120	
83-32-9	Acenaphthene	180	U	180	26	
208-96-8	Acenaphthylene	180	U	180	23	
98-86-2	Acetophenone	180	U	180	24	
120-12-7	Anthracene	180	U	180	44	
1912-24-9	Atrazine	180	U	180	61	
100-52-7	Benzaldehyde	180	U	180	140	
56-55-3	Benzo[a]anthracene	180	U	180	18	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: X00000033958.d

Analysis Method: 8270D | Date Collected: 10/29/2024 13:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.78(g) | Date Analyzed: 10/31/2024 21:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 6.5 % Solids: 93.5 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	180	U	180	26
205-99-2	Benzo[b]fluoranthene	180	U	180	28
191-24-2	Benzo[g,h,i]perylene	180	U	180	19
207-08-9	Benzo[k]fluoranthene	180	U	180	23
92-52-4	Biphenyl	180	U	180	26
108-60-1	bis (2-chloroisopropyl) ether	180	U	180	35
111-91-1	Bis(2-chloroethoxy)methane	180	U	180	38
111-44-4	Bis(2-chloroethyl)ether	180	U	180	23
117-81-7	Bis(2-ethylhexyl) phthalate	180	U	180	60
85-68-7	Butyl benzyl phthalate	180	U	180	29
105-60-2	Caprolactam	180	U	180	53
86-74-8	Carbazole	180	U	180	21
218-01-9	Chrysene	180	U	180	40
53-70-3	Dibenz(a,h)anthracene	180	U	180	31
132-64-9	Dibenzofuran	180	U	180	21
84-66-2	Diethyl phthalate	180	U	180	23
131-11-3	Dimethyl phthalate	180	U	180	21
84-74-2	Di-n-butyl phthalate	180	U	180	30
117-84-0	Di-n-octyl phthalate	180	U	180	21
206-44-0	Fluoranthene	180	U	180	19
86-73-7	Fluorene	180	U	180	21
118-74-1	Hexachlorobenzene	180	U	180	24
87-68-3	Hexachlorobutadiene	180	U	180	26
77-47-4	Hexachlorocyclopentadiene	180	U	180	24
67-72-1	Hexachloroethane	180	U	180	23
193-39-5	Indeno[1,2,3-cd]pyrene	180	U	180	22
78-59-1	Isophorone	180	U	180	38
91-20-3	Naphthalene	180	U	180	23
98-95-3	Nitrobenzene	180	U	180	20
621-64-7	N-Nitrosodi-n-propylamine	180	U	180	30
86-30-6	N-Nitrosodiphenylamine	180	U	180	140

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: X00000033958.d

Analysis Method: 8270D | Date Collected: 10/29/2024 13:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.78(g) | Date Analyzed: 10/31/2024 21:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 6.5 % Solids: 93.5 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	340	U	340	180
85-01-8	Phenanthrene	180	U	180	26
108-95-2	Phenol	180	U	180	27
129-00-0	Pyrene	180	U	180	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	71		26-143
321-60-8	2-Fluorobiphenyl (Surr)	53		50-121
367-12-4	2-Fluorophenol (Surr)	57		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	53		40-121
4165-62-2	Phenol-d5 (Surr)	58		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	74		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: X00000033953.d

Analysis Method: 8270D | Date Collected: 10/29/2024 14:00

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.13(g) | Date Analyzed: 10/31/2024 19:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.8 % Solids: 91.2 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	2200	U F1	2200	1200	UJ
95-95-4	2,4,5-Trichlorophenol	3700	U	3700	1000	
88-06-2	2,4,6-Trichlorophenol	3700	U	3700	740	
120-83-2	2,4-Dichlorophenol	3700	U	3700	390	
105-67-9	2,4-Dimethylphenol	3700	U	3700	900	
51-28-5	2,4-Dinitrophenol	36000	U	36000	17000	
121-14-2	2,4-Dinitrotoluene	3700	U	3700	760	
606-20-2	2,6-Dinitrotoluene	3700	U	3700	440	
91-58-7	2-Chloronaphthalene	3700	U	3700	610	
95-57-8	2-Chlorophenol	7200	U	7200	680	
91-57-6	2-Methylnaphthalene	3700	U	3700	740	
95-48-7	2-Methylphenol	3700	U	3700	440	
88-74-4	2-Nitroaniline	7200	U	7200	550	UJ
88-75-5	2-Nitrophenol	3700	U	3700	1000	
91-94-1	3,3'-Dichlorobenzidine	7200	U	7200	4400	
99-09-2	3-Nitroaniline	7200	U F1	7200	1000	
534-52-1	4,6-Dinitro-2-methylphenol	7200	U	7200	3700	
101-55-3	4-Bromophenyl phenyl ether	3700	U F2	3700	520	
59-50-7	4-Chloro-3-methylphenol	3700	U	3700	920	
106-47-8	4-Chloroaniline	3700	U	3700	920	
7005-72-3	4-Chlorophenyl phenyl ether	3700	U	3700	460	
106-44-5	4-Methylphenol	7200	U	7200	440	
100-01-6	4-Nitroaniline	7200	U	7200	1900	
100-02-7	4-Nitrophenol	7200	U F1	7200	2600	
83-32-9	Acenaphthene	3700	U F1 F2	3700	550	
208-96-8	Acenaphthylene	3700	U	3700	480	
98-86-2	Acetophenone	3700	U	3700	500	
120-12-7	Anthracene	3700	U F1 F2	3700	920	
1912-24-9	Atrazine	3700	U	3700	1300	
100-52-7	Benzaldehyde	3700	U	3700	2900	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: X00000033953.d

Analysis Method: 8270D | Date Collected: 10/29/2024 14:00

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.13(g) | Date Analyzed: 10/31/2024 19:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.8 % Solids: 91.2 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo[a]anthracene	1000	J F1 F2	3700	370
50-32-8	Benzo[a]pyrene	1100	J F1 F2	3700	550
205-99-2	Benzo[b]fluoranthene	1300	J F1 F2	3700	590
191-24-2	Benzo[g,h,i]perylene	720	J F1 F2	3700	390
207-08-9	Benzo[k]fluoranthene	520	J F1 F2	3700	480
92-52-4	Biphenyl	3700	U	3700	550
108-60-1	bis (2-chloroisopropyl) ether	3700	U	3700	740
111-91-1	Bis(2-chloroethoxy)methane	3700	U	3700	790
111-44-4	Bis(2-chloroethyl)ether	3700	U	3700	480
117-81-7	Bis(2-ethylhexyl) phthalate	3700	U F1	3700	1300
85-68-7	Butyl benzyl phthalate	3700	U F1	3700	610
105-60-2	Caprolactam	3700	U F2	3700	1100
86-74-8	Carbazole	3700	U F1 F2	3700	440
218-01-9	Chrysene	980	J F1 F2	3700	830
53-70-3	Dibenz(a,h)anthracene	3700	U F1 F2	3700	660
132-64-9	Dibenzofuran	3700	U F1 F2	3700	440
84-66-2	Diethyl phthalate	3700	U F2	3700	480
131-11-3	Dimethyl phthalate	3700	U	3700	440
84-74-2	Di-n-butyl phthalate	3700	U	3700	630
117-84-0	Di-n-octyl phthalate	3700	U F1	3700	440
206-44-0	Fluoranthene	2300	J F1 F2	3700	390
86-73-7	Fluorene	3700	U F1 F2	3700	440
118-74-1	Hexachlorobenzene	3700	U	3700	500
87-68-3	Hexachlorobutadiene	3700	U	3700	550

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: X00000033953.d

Analysis Method: 8270D | Date Collected: 10/29/2024 14:00

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.13(g) | Date Analyzed: 10/31/2024 19:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.8 % Solids: 91.2 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
77-47-4	Hexachlorocyclopentadiene	3700	U	3700	500
67-72-1	Hexachloroethane	3700	U	3700	480
193-39-5	Indeno[1,2,3-cd]pyrene	550	J F1 F2	3700	460
78-59-1	Isophorone	3700	U	3700	790
91-20-3	Naphthalene	3700	U F1 F2	3700	480
98-95-3	Nitrobenzene	3700	U	3700	410
621-64-7	N-Nitrosodi-n-propylamine	3700	U	3700	630
86-30-6	N-Nitrosodiphenylamine	3700	U	3700	3000
87-86-5	Pentachlorophenol	7200	U	7200	3700
85-01-8	Phenanthrene	1300	J F1 F2	3700	550
108-95-2	Phenol	3700	U	3700	570
129-00-0	Pyrene	1800	J F1 F2	3700	440

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	100		26-143
321-60-8	2-Fluorobiphenyl (Surr)	82		50-121
367-12-4	2-Fluorophenol (Surr)	70		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	85		40-121
4165-62-2	Phenol-d5 (Surr)	71		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	95		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: X00000033954.d

Analysis Method: 8270D | Date Collected: 10/29/2024 15:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.38(g) | Date Analyzed: 10/31/2024 20:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.6 % Solids: 91.4 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	11000	U	11000	5900	UJ
95-95-4	2,4,5-Trichlorophenol	18000	U	18000	5000	
88-06-2	2,4,6-Trichlorophenol	18000	U	18000	3700	
120-83-2	2,4-Dichlorophenol	18000	U	18000	1900	
105-67-9	2,4-Dimethylphenol	18000	U	18000	4400	
51-28-5	2,4-Dinitrophenol	180000	U	180000	85000	
121-14-2	2,4-Dinitrotoluene	18000	U	18000	3800	
606-20-2	2,6-Dinitrotoluene	18000	U	18000	2200	
91-58-7	2-Chloronaphthalene	18000	U	18000	3000	
95-57-8	2-Chlorophenol	36000	U	36000	3300	
91-57-6	2-Methylnaphthalene	18000	U	18000	3700	
95-48-7	2-Methylphenol	18000	U	18000	2200	
88-74-4	2-Nitroaniline	36000	U	36000	2700	UJ
88-75-5	2-Nitrophenol	18000	U	18000	5200	
91-94-1	3,3'-Dichlorobenzidine	36000	U	36000	22000	
99-09-2	3-Nitroaniline	36000	U	36000	5100	
534-52-1	4,6-Dinitro-2-methylphenol	36000	U	36000	18000	
101-55-3	4-Bromophenyl phenyl ether	18000	U	18000	2600	
59-50-7	4-Chloro-3-methylphenol	18000	U	18000	4500	
106-47-8	4-Chloroaniline	18000	U	18000	4500	
7005-72-3	4-Chlorophenyl phenyl ether	18000	U	18000	2300	
106-44-5	4-Methylphenol	36000	U	36000	2200	
100-01-6	4-Nitroaniline	36000	U	36000	9600	
100-02-7	4-Nitrophenol	36000	U	36000	13000	
83-32-9	Acenaphthene	18000	U	18000	2700	
208-96-8	Acenaphthylene	18000	U	18000	2400	
98-86-2	Acetophenone	18000	U	18000	2500	
120-12-7	Anthracene	18000	U	18000	4500	
1912-24-9	Atrazine	18000	U	18000	6400	
100-52-7	Benzaldehyde	18000	U	18000	15000	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: X00000033954.d

Analysis Method: 8270D | Date Collected: 10/29/2024 15:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.38(g) | Date Analyzed: 10/31/2024 20:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.6 % Solids: 91.4 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo[a]anthracene	2500	J F1 F2	18000	1800
50-32-8	Benzo[a]pyrene	18000	U F2	18000	2700
205-99-2	Benzo[b]fluoranthene	18000	U	18000	2900
191-24-2	Benzo[g,h,i]perylene	18000	U	18000	1900
207-08-9	Benzo[k]fluoranthene	18000	U	18000	2400
92-52-4	Biphenyl	18000	U	18000	2700
108-60-1	bis (2-chloroisopropyl) ether	18000	U	18000	3700
111-91-1	Bis(2-chloroethoxy)methane	18000	U	18000	3900
111-44-4	Bis(2-chloroethyl)ether	18000	U	18000	2400
117-81-7	Bis(2-ethylhexyl) phthalate	18000	U	18000	6300
85-68-7	Butyl benzyl phthalate	18000	U	18000	3000
105-60-2	Caprolactam	18000	U	18000	5500
86-74-8	Carbazole	18000	U	18000	2200
218-01-9	Chrysene	18000	U	18000	4100
53-70-3	Dibenz(a,h)anthracene	18000	U	18000	3200
132-64-9	Dibenzofuran	18000	U	18000	2200
84-66-2	Diethyl phthalate	18000	U	18000	2400
131-11-3	Dimethyl phthalate	18000	U	18000	2200
84-74-2	Di-n-butyl phthalate	18000	U	18000	3100
117-84-0	Di-n-octyl phthalate	18000	U	18000	2200
206-44-0	Fluoranthene	5700	J F2	18000	1900
86-73-7	Fluorene	18000	U	18000	2200
118-74-1	Hexachlorobenzene	18000	U	18000	2500
87-68-3	Hexachlorobutadiene	18000	U	18000	2700
77-47-4	Hexachlorocyclopentadiene	18000	U	18000	2500
67-72-1	Hexachloroethane	18000	U	18000	2400
193-39-5	Indeno[1,2,3-cd]pyrene	18000	U	18000	2300
78-59-1	Isophorone	18000	U	18000	3900
91-20-3	Naphthalene	18000	U	18000	2400
98-95-3	Nitrobenzene	18000	U	18000	2100

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: X00000033954.d

Analysis Method: 8270D | Date Collected: 10/29/2024 15:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.38(g) | Date Analyzed: 10/31/2024 20:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.6 % Solids: 91.4 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
621-64-7	N-Nitrosodi-n-propylamine	18000	U	18000	3100
86-30-6	N-Nitrosodiphenylamine	18000	U	18000	15000
87-86-5	Pentachlorophenol	36000	U	36000	18000
85-01-8	Phenanthrene	4000	J F1	18000	2700
108-95-2	Phenol	18000	U	18000	2800
129-00-0	Pyrene	4300	J F1	18000	2200

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	0	S1-	26-143
321-60-8	2-Fluorobiphenyl (Surr)	95		50-121
367-12-4	2-Fluorophenol (Surr)	0	S1-	36-120
4165-60-0	Nitrobenzene-d5 (Surr)	0	S1-	40-121
4165-62-2	Phenol-d5 (Surr)	48		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	101		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: X00000033959.d

Analysis Method: 8270D | Date Collected: 10/29/2024 15:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.62(g) | Date Analyzed: 10/31/2024 22:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 11.7 % Solids: 88.3 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	110	U	110	61	UJ
95-95-4	2,4,5-Trichlorophenol	190	U	190	51	
88-06-2	2,4,6-Trichlorophenol	190	U	190	38	
120-83-2	2,4-Dichlorophenol	190	U	190	20	
105-67-9	2,4-Dimethylphenol	190	U	190	45	
51-28-5	2,4-Dinitrophenol	1800	U	1800	870	
121-14-2	2,4-Dinitrotoluene	190	U	190	39	
606-20-2	2,6-Dinitrotoluene	190	U	190	22	
91-58-7	2-Chloronaphthalene	190	U	190	31	
95-57-8	2-Chlorophenol	370	U	370	34	
91-57-6	2-Methylnaphthalene	190	U	190	38	
95-48-7	2-Methylphenol	190	U	190	22	
88-74-4	2-Nitroaniline	370	U	370	28	UJ
88-75-5	2-Nitrophenol	190	U	190	53	
91-94-1	3,3'-Dichlorobenzidine	370	U	370	220	
99-09-2	3-Nitroaniline	370	U	370	52	
534-52-1	4,6-Dinitro-2-methylphenol	370	U	370	190	
101-55-3	4-Bromophenyl phenyl ether	190	U	190	27	
59-50-7	4-Chloro-3-methylphenol	190	U	190	47	
106-47-8	4-Chloroaniline	190	U	190	47	
7005-72-3	4-Chlorophenyl phenyl ether	190	U	190	23	
106-44-5	4-Methylphenol	370	U	370	22	
100-01-6	4-Nitroaniline	370	U	370	99	
100-02-7	4-Nitrophenol	370	U	370	130	
83-32-9	Acenaphthene	190	U	190	28	
208-96-8	Acenaphthylene	190	U	190	24	
98-86-2	Acetophenone	190	U	190	26	
120-12-7	Anthracene	190	U	190	47	
1912-24-9	Atrazine	190	U	190	65	
100-52-7	Benzaldehyde	190	U	190	150	
56-55-3	Benzo[a]anthracene	190	U	190	19	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: X00000033959.d

Analysis Method: 8270D | Date Collected: 10/29/2024 15:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.62(g) | Date Analyzed: 10/31/2024 22:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 11.7 % Solids: 88.3 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	190	U	190	28
205-99-2	Benzo[b]fluoranthene	190	U	190	30
191-24-2	Benzo[g,h,i]perylene	190	U	190	20
207-08-9	Benzo[k]fluoranthene	190	U	190	24
92-52-4	Biphenyl	190	U	190	28
108-60-1	bis (2-chloroisopropyl) ether	190	U	190	38
111-91-1	Bis(2-chloroethoxy)methane	190	U	190	40
111-44-4	Bis(2-chloroethyl)ether	190	U	190	24
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	190	64
85-68-7	Butyl benzyl phthalate	190	U	190	31
105-60-2	Caprolactam	190	U	190	57
86-74-8	Carbazole	190	U	190	22
218-01-9	Chrysene	190	U	190	42
53-70-3	Dibenz(a,h)anthracene	190	U	190	33
132-64-9	Dibenzofuran	190	U	190	22
84-66-2	Diethyl phthalate	190	U	190	24
131-11-3	Dimethyl phthalate	190	U	190	22
84-74-2	Di-n-butyl phthalate	190	U	190	32
117-84-0	Di-n-octyl phthalate	190	U	190	22
206-44-0	Fluoranthene	27	J	190	20
86-73-7	Fluorene	190	U	190	22
118-74-1	Hexachlorobenzene	190	U	190	26
87-68-3	Hexachlorobutadiene	190	U	190	28
77-47-4	Hexachlorocyclopentadiene	190	U	190	26
67-72-1	Hexachloroethane	190	U	190	24
193-39-5	Indeno[1,2,3-cd]pyrene	190	U	190	23
78-59-1	Isophorone	190	U	190	40
91-20-3	Naphthalene	190	U	190	24
98-95-3	Nitrobenzene	190	U	190	21
621-64-7	N-Nitrosodi-n-propylamine	190	U	190	32
86-30-6	N-Nitrosodiphenylamine	190	U	190	150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: X00000033959.d

Analysis Method: 8270D | Date Collected: 10/29/2024 15:30

Extract. Method: 3550C | Date Extracted: 10/30/2024 17:31

Sample wt/vol: 30.62(g) | Date Analyzed: 10/31/2024 22:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 11.7 % Solids: 88.3 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730591 | Units: ug/Kg

Preparation Batch No.: 730560 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	370	U	370	190
85-01-8	Phenanthrene	190	U	190	28
108-95-2	Phenol	190	U	190	29
129-00-0	Pyrene	22	J	190	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	75		26-143
321-60-8	2-Fluorobiphenyl (Surr)	60		50-121
367-12-4	2-Fluorophenol (Surr)	56		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	56		40-121
4165-62-2	Phenol-d5 (Surr)	60		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	88		46-143

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: 25_84-379.D

Analysis Method: 8081B | Date Collected: 10/29/2024 09:30

Extraction Method: 3550C | Date Extracted: 10/31/2024 06:36

Sample wt/vol: 30.56(g) | Date Analyzed: 11/01/2024 11:31

Con. Extract Vol.: 10(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730754 | Units: ug/Kg

Preparation Batch No.: 730565 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	18	U	18	3.5	
72-55-9	4,4'-DDE	18	U	18	3.8	
50-29-3	4,4'-DDT	18 UJ ~~12 J B~~		18	4.2	UJ
309-00-2	Aldrin	18	U	18	4.4	
319-84-6	alpha-BHC	3.8	J	18	3.2	
319-85-7	beta-BHC	18	U	18	3.2	
5103-71-9	Chlordane (.alpha.)	18	U	18	9.0	
319-86-8	delta-BHC	4.6	J	18	3.4	J
60-57-1	Dieldrin	18	U	18	4.3	
959-98-8	Endosulfan I	18	U	18	3.5	
33213-65-9	Endosulfan II	18	U	18	3.2	
1031-07-8	Endosulfan sulfate	18	U	18	3.4	
72-20-8	Endrin	18	U	18	3.6	
76-44-8	Heptachlor	18	U	18	3.9	
58-89-9	Lindane	18	U	18	3.3	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	0	S1-	45-120
877-09-8	Tetrachloro-m-xylene	93		30-124

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: 25_84-380.D

Analysis Method: 8081B | Date Collected: 10/29/2024 10:45

Extraction Method: 3550C | Date Extracted: 10/31/2024 06:36

Sample wt/vol: 30.48(g) | Date Analyzed: 11/01/2024 11:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 10.4 % Solids: 89.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730754 | Units: ug/Kg

Preparation Batch No.: 730565 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	18	U	18	3.6	
72-55-9	4,4'-DDE	18	U	18	3.8	
50-29-3	4,4'-DDT	18 UJ ~~8.2 J D~~		18	4.3	UJ
309-00-2	Aldrin	18	U	18	4.5	
319-84-6	alpha-BHC	18	U	18	3.3	
319-85-7	beta-BHC	18	U	18	3.3	
5103-71-9	Chlordane (.alpha.)	18	U	18	9.1	
319-86-8	delta-BHC	18	U	18	3.4	
60-57-1	Dieldrin	18	U	18	4.4	
959-98-8	Endosulfan I	18	U	18	3.5	
33213-65-9	Endosulfan II	18	U	18	3.3	
1031-07-8	Endosulfan sulfate	18	U	18	3.4	
72-20-8	Endrin	18	U	18	3.6	
76-44-8	Heptachlor	18	U	18	4.0	
58-89-9	Lindane	18	U	18	3.4	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	78		45-120
877-09-8	Tetrachloro-m-xylene	106		30-124

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: 25_84-381.D

Analysis Method: 8081B | Date Collected: 10/29/2024 10:45

Extraction Method: 3550C | Date Extracted: 10/31/2024 06:36

Sample wt/vol: 30.62(g) | Date Analyzed: 11/01/2024 12:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 14.7 % Solids: 85.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730754 | Units: ug/Kg

Preparation Batch No.: 730565 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	19	U	19	3.7	
72-55-9	4,4'-DDE	19	U	19	4.0	
50-29-3	4,4'-DDT	19 UJ 8.7	J B	19	4.5	UJ
309-00-2	Aldrin	19	U	19	4.7	
319-84-6	alpha-BHC	19	U	19	3.4	
319-85-7	beta-BHC	19	U	19	3.4	
5103-71-9	Chlordane (.alpha.)	19	U	19	9.5	
319-86-8	delta-BHC	19	U	19	3.6	
60-57-1	Dieldrin	19	U	19	4.6	
959-98-8	Endosulfan I	19	U	19	3.7	
33213-65-9	Endosulfan II	19	U	19	3.4	
1031-07-8	Endosulfan sulfate	19	U	19	3.6	
72-20-8	Endrin	19	U	19	3.8	
76-44-8	Heptachlor	19	U	19	4.1	
58-89-9	Lindane	19	U	19	3.5	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	94		45-120
877-09-8	Tetrachloro-m-xylene	92		30-124

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: 25_84-382.D

Analysis Method: 8081B | Date Collected: 10/29/2024 13:30

Extraction Method: 3550C | Date Extracted: 10/31/2024 06:36

Sample wt/vol: 30.45(g) | Date Analyzed: 11/01/2024 12:30

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 6.5 % Solids: 93.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730754 | Units: ug/Kg

Preparation Batch No.: 730565 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	1.8	U	1.8	0.34	
72-55-9	4,4'-DDE	1.8	U	1.8	0.37	
50-29-3	4,4'-DDT	1.8 UJ 0.77	~~J~~ B	1.8	0.41	UJ
309-00-2	Aldrin	1.8	U	1.8	0.43	
319-84-6	alpha-BHC	1.8	U	1.8	0.32	
319-85-7	beta-BHC	1.8	U	1.8	0.32	
5103-71-9	Chlordane (.alpha.)	1.8	U	1.8	0.87	
319-86-8	delta-BHC	1.8	U	1.8	0.33	
60-57-1	Dieldrin	1.8	U	1.8	0.42	
959-98-8	Endosulfan I	1.8	U	1.8	0.34	
33213-65-9	Endosulfan II	1.8	U	1.8	0.32	
1031-07-8	Endosulfan sulfate	1.8	U	1.8	0.33	
72-20-8	Endrin	1.8	U	1.8	0.35	
76-44-8	Heptachlor	1.8	U	1.8	0.38	
58-89-9	Lindane	0.58	J	1.8	0.32	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	92		45-120
877-09-8	Tetrachloro-m-xylene	84		30-124

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: 25_84-377.D

Analysis Method: 8081B | Date Collected: 10/29/2024 14:00

Extraction Method: 3550C | Date Extracted: 10/31/2024 06:36

Sample wt/vol: 30.34(g) | Date Analyzed: 11/01/2024 10:52

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 8.8 % Solids: 91.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730754 | Units: ug/Kg

Preparation Batch No.: 730565 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	9.1	U	9.1	1.8	
72-55-9	4,4'-DDE	9.1	U F2	9.1	1.9	
50-29-3	4,4'-DDT	9.1 UJ 5.8	J B	9.1	2.1	UJ
309-00-2	Aldrin	9.1	U	9.1	2.2	
319-84-6	alpha-BHC	9.1	U	9.1	1.6	
319-85-7	beta-BHC	9.1	U	9.1	1.6	
5103-71-9	Chlordane (.alpha.)	9.1	U	9.1	4.5	
319-86-8	delta-BHC	2.0	J	9.1	1.7	J
60-57-1	Dieldrin	9.1	U	9.1	2.2	
959-98-8	Endosulfan I	9.1	U	9.1	1.7	
33213-65-9	Endosulfan II	9.1	U	9.1	1.6	
1031-07-8	Endosulfan sulfate	9.1	U	9.1	1.7	
72-20-8	Endrin	9.1	U	9.1	1.8	
76-44-8	Heptachlor	9.1	U	9.1	2.0	
58-89-9	Lindane	9.1	U	9.1	1.7	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	208	S1+	45-120
877-09-8	Tetrachloro-m-xylene	88		30-124

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: 25_84-378.D

Analysis Method: 8081B | Date Collected: 10/29/2024 15:30

Extraction Method: 3550C | Date Extracted: 10/31/2024 06:36

Sample wt/vol: 30.09(g) | Date Analyzed: 11/01/2024 11:12

Con. Extract Vol.: 10(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 8.6 % Solids: 91.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730754 | Units: ug/Kg

Preparation Batch No.: 730565 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	91	U F1	91	18	
72-55-9	4,4'-DDE	91	U	91	19	
50-29-3	4,4'-DDT	91 UJ 40	~~J B~~	91	21	UJ
309-00-2	Aldrin	91	U	91	22	
319-84-6	alpha-BHC	91	U F1	91	16	
319-85-7	beta-BHC	91	U F1	91	16	
5103-71-9	Chlordane (.alpha.)	91	U	91	45	
319-86-8	delta-BHC	91	U F1	91	17	
60-57-1	Dieldrin	91	U	91	22	
959-98-8	Endosulfan I	91	U F1	91	17	
33213-65-9	Endosulfan II	91	U F1	91	16	
1031-07-8	Endosulfan sulfate	91	U F1	91	17	
72-20-8	Endrin	91	U F1	91	18	
76-44-8	Heptachlor	91	U	91	20	
58-89-9	Lindane	91	U F1	91	17	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	0	S1-	45-120
877-09-8	Tetrachloro-m-xylene	0	S1-	30-124

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: 25_84-383.D

Analysis Method: 8081B | Date Collected: 10/29/2024 15:30

Extraction Method: 3550C | Date Extracted: 10/31/2024 06:36

Sample wt/vol: 30.32(g) | Date Analyzed: 11/01/2024 12:50

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 11.7 % Solids: 88.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730754 | Units: ug/Kg

Preparation Batch No.: 730565 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	1.9	U	1.9	0.36	
72-55-9	4,4'-DDE	1.9	U	1.9	0.39	
50-29-3	4,4'-DDT	1.9 UJ ~~0.93~~	J B	1.9	0.44	UJ
309-00-2	Aldrin	1.9	U	1.9	0.46	
319-84-6	alpha-BHC	1.9	U	1.9	0.34	
319-85-7	beta-BHC	1.9	U	1.9	0.34	
5103-71-9	Chlordane (.alpha.)	1.9	U	1.9	0.93	
319-86-8	delta-BHC	1.9	U	1.9	0.35	
60-57-1	Dieldrin	1.9	U	1.9	0.45	
959-98-8	Endosulfan I	1.9	U	1.9	0.36	
33213-65-9	Endosulfan II	1.9	U	1.9	0.34	
1031-07-8	Endosulfan sulfate	1.9	U	1.9	0.35	
72-20-8	Endrin	1.9	U	1.9	0.37	
76-44-8	Heptachlor	1.9	U	1.9	0.40	
58-89-9	Lindane	1.9	U	1.9	0.34	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	87		45-120
877-09-8	Tetrachloro-m-xylene	76		30-124

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Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

No data validation qualifiers were added

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FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: 70001461.D

Analysis Method: 8082A | Date Collected: 10/29/2024 09:30

Extraction Method: 3550C | Date Extracted: 10/31/2024 09:17

Sample wt/vol: 2.30(g) | Date Analyzed: 11/02/2024 04:36

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730758 | Units: mg/Kg

Preparation Batch No.: 730606 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.24	U	0.24	0.047
11104-28-2	PCB-1221	0.24	U	0.24	0.047
11141-16-5	PCB-1232	0.24	U	0.24	0.047
53469-21-9	PCB-1242	0.24	U	0.24	0.047
12672-29-6	PCB-1248	0.24	U	0.24	0.047
11097-69-1	PCB-1254	0.24	U	0.24	0.11
11096-82-5	PCB-1260	0.24	U	0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	94		60-154
2051-24-3	DCB Decachlorobiphenyl	108		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: 70001462.D

Analysis Method: 8082A | Date Collected: 10/29/2024 10:45

Extraction Method: 3550C | Date Extracted: 10/31/2024 09:17

Sample wt/vol: 2.13(g) | Date Analyzed: 11/02/2024 04:55

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 10.4 % Solids: 89.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730758 | Units: mg/Kg

Preparation Batch No.: 730606 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.26	U	0.26	0.051
11104-28-2	PCB-1221	0.26	U	0.26	0.051
11141-16-5	PCB-1232	0.26	U	0.26	0.051
53469-21-9	PCB-1242	0.26	U	0.26	0.051
12672-29-6	PCB-1248	0.26	U	0.26	0.051
11097-69-1	PCB-1254	0.26	U	0.26	0.12
11096-82-5	PCB-1260	0.26	U	0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	82		60-154
2051-24-3	DCB Decachlorobiphenyl	120		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: 70001465.D

Analysis Method: 8082A | Date Collected: 10/29/2024 10:45

Extraction Method: 3550C | Date Extracted: 10/31/2024 09:17

Sample wt/vol: 2.13(g) | Date Analyzed: 11/02/2024 05:50

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 14.7 % Solids: 85.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730758 | Units: mg/Kg

Preparation Batch No.: 730606 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.28	U	0.28	0.054
11104-28-2	PCB-1221	0.28	U	0.28	0.054
11141-16-5	PCB-1232	0.28	U	0.28	0.054
53469-21-9	PCB-1242	0.28	U	0.28	0.054
12672-29-6	PCB-1248	0.28	U	0.28	0.054
11097-69-1	PCB-1254	0.28	U	0.28	0.13
11096-82-5	PCB-1260	0.28	U	0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	102		60-154
2051-24-3	DCB Decachlorobiphenyl	113		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: 70001466.D

Analysis Method: 8082A | Date Collected: 10/29/2024 13:30

Extraction Method: 3550C | Date Extracted: 10/31/2024 09:17

Sample wt/vol: 2.11(g) | Date Analyzed: 11/02/2024 06:08

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 6.5 % Solids: 93.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730758 | Units: mg/Kg

Preparation Batch No.: 730606 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.25	U	0.25	0.050
11104-28-2	PCB-1221	0.25	U	0.25	0.050
11141-16-5	PCB-1232	0.25	U	0.25	0.050
53469-21-9	PCB-1242	0.25	U	0.25	0.050
12672-29-6	PCB-1248	0.25	U	0.25	0.050
11097-69-1	PCB-1254	0.25	U	0.25	0.12
11096-82-5	PCB-1260	0.25	U	0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	105		60-154
2051-24-3	DCB Decachlorobiphenyl	119		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: 70001459.D

Analysis Method: 8082A | Date Collected: 10/29/2024 14:00

Extraction Method: 3550C | Date Extracted: 10/31/2024 09:17

Sample wt/vol: 2.07(g) | Date Analyzed: 11/02/2024 04:00

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 8.8 % Solids: 91.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730758 | Units: mg/Kg

Preparation Batch No.: 730606 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.26	U	0.26	0.052
11104-28-2	PCB-1221	0.26	U	0.26	0.052
11141-16-5	PCB-1232	0.26	U	0.26	0.052
53469-21-9	PCB-1242	0.26	U	0.26	0.052
12672-29-6	PCB-1248	0.26	U	0.26	0.052
11097-69-1	PCB-1254	0.26	U	0.26	0.12
11096-82-5	PCB-1260	0.26	U	0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	90		60-154
2051-24-3	DCB Decachlorobiphenyl	99		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: 70001460.D

Analysis Method: 8082A | Date Collected: 10/29/2024 15:30

Extraction Method: 3550C | Date Extracted: 10/31/2024 09:17

Sample wt/vol: 2.28(g) | Date Analyzed: 11/02/2024 04:18

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 8.6 % Solids: 91.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730758 | Units: mg/Kg

Preparation Batch No.: 730606 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.24	U	0.24	0.047
11104-28-2	PCB-1221	0.24	U	0.24	0.047
11141-16-5	PCB-1232	0.24	U	0.24	0.047
53469-21-9	PCB-1242	0.24	U	0.24	0.047
12672-29-6	PCB-1248	0.24	U	0.24	0.047
11097-69-1	PCB-1254	0.24	U	0.24	0.11
11096-82-5	PCB-1260	0.24	U	0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	75		60-154
2051-24-3	DCB Decachlorobiphenyl	79		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: 70001467.D

Analysis Method: 8082A | Date Collected: 10/29/2024 15:30

Extraction Method: 3550C | Date Extracted: 10/31/2024 09:17

Sample wt/vol: 2.04(g) | Date Analyzed: 11/02/2024 06:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 11.7 % Solids: 88.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730758 | Units: mg/Kg

Preparation Batch No.: 730606 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.28	U	0.28	0.054
11104-28-2	PCB-1221	0.28	U	0.28	0.054
11141-16-5	PCB-1232	0.28	U	0.28	0.054
53469-21-9	PCB-1242	0.28	U	0.28	0.054
12672-29-6	PCB-1248	0.28	U	0.28	0.054
11097-69-1	PCB-1254	0.28	U	0.28	0.13
11096-82-5	PCB-1260	0.28	U	0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	89		60-154
2051-24-3	DCB Decachlorobiphenyl	108		65-174

Method 8151A

Herbicides (GC) by Method 8151A

No data validation qualifiers were added

MKP 12/10/2024

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: 2024-11-05 15-04-44-05-00-09.D

Analysis Method: 8151A | Date Collected: 10/29/2024 09:30

Extraction Method: 8151A | Date Extracted: 11/03/2024 06:56

Sample wt/vol: 30.48(g) | Date Analyzed: 11/05/2024 15:04

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/Kg

Preparation Batch No.: 730964 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	18	U	18	6.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	66		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: 2024-11-05 15-23-19-05-00-10.D

Analysis Method: 8151A | Date Collected: 10/29/2024 10:45

Extraction Method: 8151A | Date Extracted: 11/03/2024 06:56

Sample wt/vol: 30.28(g) | Date Analyzed: 11/05/2024 15:23

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 10.4 % Solids: 89.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/Kg

Preparation Batch No.: 730964 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	18	U	18	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	61		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: 2024-11-05 16-00-19-05-00-12.D

Analysis Method: 8151A | Date Collected: 10/29/2024 10:45

Extraction Method: 8151A | Date Extracted: 11/03/2024 06:56

Sample wt/vol: 30.37(g) | Date Analyzed: 11/05/2024 16:00

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 14.7 % Solids: 85.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/Kg

Preparation Batch No.: 730964 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	19	U	19	7.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	72		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: 2024-11-05 16-18-49-05-00-13.D

Analysis Method: 8151A | Date Collected: 10/29/2024 13:30

Extraction Method: 8151A | Date Extracted: 11/03/2024 06:56

Sample wt/vol: 30.13(g) | Date Analyzed: 11/05/2024 16:18

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 6.5 % Solids: 93.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/Kg

Preparation Batch No.: 730964 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	18	U	18	6.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	73		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: 2024-11-05 14-27-44-05-00-07.D

Analysis Method: 8151A | Date Collected: 10/29/2024 14:00

Extraction Method: 8151A | Date Extracted: 11/03/2024 06:56

Sample wt/vol: 30.55(g) | Date Analyzed: 11/05/2024 14:27

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 8.8 % Solids: 91.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/Kg

Preparation Batch No.: 730964 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	18	U	18	6.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	78		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: 2024-11-05 14-46-13-05-00-08.D

Analysis Method: 8151A | Date Collected: 10/29/2024 15:30

Extraction Method: 8151A | Date Extracted: 11/03/2024 06:56

Sample wt/vol: 30.73(g) | Date Analyzed: 11/05/2024 14:46

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 8.6 % Solids: 91.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/Kg

Preparation Batch No.: 730964 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	18	U	18	6.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	58		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: 2024-11-05 16-37-24-05-00-14.D

Analysis Method: 8151A | Date Collected: 10/29/2024 15:30

Extraction Method: 8151A | Date Extracted: 11/03/2024 06:56

Sample wt/vol: 30.26(g) | Date Analyzed: 11/05/2024 16:37

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 11.7 % Solids: 88.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/Kg

Preparation Batch No.: 730964 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	19	U	19	6.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	77		28-129

1633

Per- and Polyfluoroalkyl Substances by LC/MS/MS

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: rush_samples23.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 09:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.52(g) | Date Analyzed: 11/02/2024 19:25

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
375-22-4	Perfluorobutanoic acid (PFBA)	0.72	U	0.72	0.18	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.36	U	0.36	0.091	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.045	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.045	
335-67-1	Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.045	
375-95-1	Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.045	
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.045	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.045	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.045	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.045	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.045	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.045	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.045	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.045	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.045	UJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.16	J	0.18	0.045	UJ
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.045	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.045	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.72	U	0.72	0.18	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.72	U	0.72	0.18	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.72	U	0.72	0.18	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.045	
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.045	
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.045	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.045	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: rush_samples23.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 09:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.52(g) | Date Analyzed: 11/02/2024 19:25

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.045	
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.45	
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.45	
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.72	U	0.72	0.18	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.72	U	0.72	0.18	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	0.36	0.091	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	0.36	0.091	
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.72	U	0.72	0.18	
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.72	U	0.72	0.18	
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	0.36	0.091	
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.91	U	0.91	0.23	
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.5	U	4.5	1.1	
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.5	U	4.5	1.1	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.045	UJ
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	0.36	0.091	

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FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') | Lab Sample ID: 480-224950-1

Matrix: Solid | Lab File ID: rush_samples23.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 09:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.52(g) | Date Analyzed: 11/02/2024 19:25

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	98.7		20-150
STL01893	13C5 PFPeA	82.9		20-150
STL02577	13C5 PFHxA	84.8		20-150
STL01892	13C4 PFHpA	87.0		20-150
STL01052	13C8 PFOA	92.2		20-150
STL02578	13C9 PFNA	87.7		20-150
STL02579	13C6 PFDA	88.0		20-150
STL02580	13C7 PFUnA	91.0		20-150
STL02116	13C2 PFTeDA	81.8		20-150
STL02337	13C3 PFBS	93.2		20-150
STL02581	13C3 PFHxS	88.5		20-150
STL01054	13C8 PFOS	87.7		20-150
STL01056	13C8 PFOSA	73.1		20-150
STL02118	d3-NMeFOSAA	74.5		20-150
STL02117	d5-NEtFOSAA	86.0		20-150
STL02395	M2-4:2 FTS	102		20-150
STL02279	M2-6:2 FTS	102		20-150
STL02280	M2-8:2 FTS	96.5		20-150
STL02255	13C3 HFPO-DA	88.3		20-150
STL02277	d7-N-MeFOSE-M	68.3		20-150
STL02278	d9-N-EtFOSE-M	67.1		20-150
STL02704	d5-NEtPFOSA	60.3		20-150
STL02705	D3-NMeFOSA	62.8		20-150
STL02703	13C2-PFDoDA	92.9		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: rush_samples24.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 10:45

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.55(g) | Date Analyzed: 11/02/2024 19:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 10.4 % Solids: 89.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
375-22-4	Perfluorobutanoic acid (PFBA)	0.72	U	0.72	0.18	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.36	U	0.36	0.090	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.045	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.045	
335-67-1	Perfluorooctanoic acid (PFOA)	0.066	J	0.18	0.045	
375-95-1	Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.045	
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.045	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.045	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.045	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.045	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.045	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.045	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.045	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.045	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.045	UJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.080	J	0.18	0.045	UJ
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.045	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.045	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.72	U	0.72	0.18	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.72	U	0.72	0.18	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.72	U	0.72	0.18	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.045	
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.045	
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.045	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.045	

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PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: rush_samples24.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 10:45

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.55(g) | Date Analyzed: 11/02/2024 19:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 10.4 % Solids: 89.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.045	
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.45	
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.45	
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.72	U	0.72	0.18	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.72	U	0.72	0.18	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	0.36	0.090	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	0.36	0.090	
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.72	U	0.72	0.18	
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.72	U	0.72	0.18	
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	0.36	0.090	
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.90	U	0.90	0.22	
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.5	U	4.5	1.1	
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.5	U	4.5	1.1	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.045	UJ
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	0.36	0.090	

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PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Matrix: Solid | Lab File ID: rush_samples24.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 10:45

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.55(g) | Date Analyzed: 11/02/2024 19:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 10.4 % Solids: 89.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	98.4		20-150
STL01893	13C5 PFPeA	85.8		20-150
STL02577	13C5 PFHxA	92.6		20-150
STL01892	13C4 PFHpA	94.4		20-150
STL01052	13C8 PFOA	92.2		20-150
STL02578	13C9 PFNA	90.2		20-150
STL02579	13C6 PFDA	93.3		20-150
STL02580	13C7 PFUnA	89.3		20-150
STL02116	13C2 PFTeDA	88.3		20-150
STL02337	13C3 PFBS	87.5		20-150
STL02581	13C3 PFHxS	84.1		20-150
STL01054	13C8 PFOS	85.8		20-150
STL01056	13C8 PFOSA	67.2		20-150
STL02118	d3-NMeFOSAA	75.4		20-150
STL02117	d5-NEtFOSAA	89.8		20-150
STL02395	M2-4:2 FTS	95.2		20-150
STL02279	M2-6:2 FTS	102		20-150
STL02280	M2-8:2 FTS	102		20-150
STL02255	13C3 HFPO-DA	95.2		20-150
STL02277	d7-N-MeFOSE-M	65.6		20-150
STL02278	d9-N-EtFOSE-M	63.4		20-150
STL02704	d5-NEtPFOSA	58.8		20-150
STL02705	D3-NMeFOSA	60.3		20-150
STL02703	13C2-PFDoDA	87.9		20-150

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PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: rush_samples25.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 10:45

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.53(g) | Date Analyzed: 11/02/2024 19:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 14.7 % Solids: 85.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
375-22-4	Perfluorobutanoic acid (PFBA)	0.77	U	0.77	0.19	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.096	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.048	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.048	
335-67-1	Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.048	
375-95-1	Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.048	
335-76-2	Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.048	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.048	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.048	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.048	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.048	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.048	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.048	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.048	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.048	UJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.048	UJ
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.048	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.048	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.77	U	0.77	0.19	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.77	U	0.77	0.19	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.77	U	0.77	0.19	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.048	
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.048	
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.048	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.048	

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Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: rush_samples25.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 10:45

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.53(g) | Date Analyzed: 11/02/2024 19:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 14.7 % Solids: 85.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.048	
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.48	
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.48	
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.77	U	0.77	0.19	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.77	U	0.77	0.19	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.096	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.096	
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.77	U	0.77	0.19	
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.77	U	0.77	0.19	
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U	0.38	0.096	
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.96	U	0.96	0.24	
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.8	U	4.8	1.2	
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.8	U	4.8	1.2	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.048	UJ
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.096	

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PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') | Lab Sample ID: 480-224950-3

Matrix: Solid | Lab File ID: rush_samples25.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 10:45

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.53(g) | Date Analyzed: 11/02/2024 19:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 14.7 % Solids: 85.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	93.7		20-150
STL01893	13C5 PFPeA	84.0		20-150
STL02577	13C5 PFHxA	85.7		20-150
STL01892	13C4 PFHpA	90.8		20-150
STL01052	13C8 PFOA	85.8		20-150
STL02578	13C9 PFNA	91.0		20-150
STL02579	13C6 PFDA	87.7		20-150
STL02580	13C7 PFUnA	84.6		20-150
STL02116	13C2 PFTeDA	88.2		20-150
STL02337	13C3 PFBS	89.4		20-150
STL02581	13C3 PFHxS	84.8		20-150
STL01054	13C8 PFOS	84.3		20-150
STL01056	13C8 PFOSA	68.2		20-150
STL02118	d3-NMeFOSAA	73.7		20-150
STL02117	d5-NEtFOSAA	92.5		20-150
STL02395	M2-4:2 FTS	98.9		20-150
STL02279	M2-6:2 FTS	97.1		20-150
STL02280	M2-8:2 FTS	97.9		20-150
STL02255	13C3 HFPO-DA	89.5		20-150
STL02277	d7-N-MeFOSE-M	66.2		20-150
STL02278	d9-N-EtFOSE-M	65.5		20-150
STL02704	d5-NEtPFOSA	55.8		20-150
STL02705	D3-NMeFOSA	56.0		20-150
STL02703	13C2-PFDoDA	89.3		20-150

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PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: rush_samples18.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 13:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.50(g) | Date Analyzed: 11/02/2024 18:02

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 6.5 % Solids: 93.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
375-22-4	Perfluorobutanoic acid (PFBA)	0.71	U	0.71	0.18	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.36	U	0.36	0.089	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.045	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.045	
335-67-1	Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.045	
375-95-1	Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.045	
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.045	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.045	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.045	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.045	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.045	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.045	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.045	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.045	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.045	UJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.18	U	0.18	0.045	UJ
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.045	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.045	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.71	U	0.71	0.18	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.71	U	0.71	0.18	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.71	U	0.71	0.18	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.045	
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.045	
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.045	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.045	

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PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: rush_samples18.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 13:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.50(g) | Date Analyzed: 11/02/2024 18:02

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 6.5 % Solids: 93.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.045	
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.45	
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.45	
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.71	U	0.71	0.18	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.71	U	0.71	0.18	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	0.36	0.089	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	0.36	0.089	
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.71	U	0.71	0.18	
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.71	U	0.71	0.18	
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	0.36	0.089	
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.89	U	0.89	0.22	
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.5	U	4.5	1.1	
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.5	U	4.5	1.1	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.045	UJ
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	0.36	0.089	

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FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-2 (2-4') | Lab Sample ID: 480-224950-4

Matrix: Solid | Lab File ID: rush_samples18.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 13:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.50(g) | Date Analyzed: 11/02/2024 18:02

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 6.5 % Solids: 93.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	99.7		20-150
STL01893	13C5 PFPeA	88.0		20-150
STL02577	13C5 PFHxA	88.1		20-150
STL01892	13C4 PFHpA	94.4		20-150
STL01052	13C8 PFOA	95.3		20-150
STL02578	13C9 PFNA	89.9		20-150
STL02579	13C6 PFDA	93.3		20-150
STL02580	13C7 PFUnA	88.3		20-150
STL02116	13C2 PFTeDA	76.2		20-150
STL02337	13C3 PFBS	88.2		20-150
STL02581	13C3 PFHxS	87.9		20-150
STL01054	13C8 PFOS	85.6		20-150
STL01056	13C8 PFOSA	71.3		20-150
STL02118	d3-NMeFOSAA	82.2		20-150
STL02117	d5-NEtFOSAA	91.9		20-150
STL02395	M2-4:2 FTS	101		20-150
STL02279	M2-6:2 FTS	99.2		20-150
STL02280	M2-8:2 FTS	109		20-150
STL02255	13C3 HFPO-DA	94.3		20-150
STL02277	d7-N-MeFOSE-M	68.9		20-150
STL02278	d9-N-EtFOSE-M	68.0		20-150
STL02704	d5-NEtPFOSA	58.9		20-150
STL02705	D3-NMeFOSA	57.1		20-150
STL02703	13C2-PFDoDA	87.3		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: rush_samples20.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 14:00

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.49(g) | Date Analyzed: 11/02/2024 18:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 8.8 % Solids: 91.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
375-22-4	Perfluorobutanoic acid (PFBA)	0.74	U	0.74	0.18	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.37	U	0.37	0.092	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.046	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.046	
335-67-1	Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.046	
375-95-1	Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.046	
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.046	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.046	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.046	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.046	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.046	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.046	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.046	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.046	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.046	UJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.11	J	0.18	0.046	UJ
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.046	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.046	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.74	U	0.74	0.18	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.74	U	0.74	0.18	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.74	U	0.74	0.18	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.046	
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.046	
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.046	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.046	

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PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: rush_samples20.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 14:00

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.49(g) | Date Analyzed: 11/02/2024 18:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 8.8 % Solids: 91.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.046	
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.46	
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.46	
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.74	U	0.74	0.18	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.74	U	0.74	0.18	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U	0.37	0.092	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U	0.37	0.092	
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.74	U	0.74	0.18	
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.74	U	0.74	0.18	
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U	0.37	0.092	
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.92	U	0.92	0.23	
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.6	U	4.6	1.1	
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.6	U	4.6	1.1	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.046	UJ
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U	0.37	0.092	

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PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') | Lab Sample ID: 480-224950-5

Matrix: Solid | Lab File ID: rush_samples20.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 14:00

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.49(g) | Date Analyzed: 11/02/2024 18:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 8.8 % Solids: 91.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	95.3		20-150
STL01893	13C5 PFPeA	83.6		20-150
STL02577	13C5 PFHxA	88.2		20-150
STL01892	13C4 PFHpA	90.1		20-150
STL01052	13C8 PFOA	87.2		20-150
STL02578	13C9 PFNA	89.2		20-150
STL02579	13C6 PFDA	86.3		20-150
STL02580	13C7 PFUnA	85.7		20-150
STL02116	13C2 PFTeDA	83.0		20-150
STL02337	13C3 PFBS	88.7		20-150
STL02581	13C3 PFHxS	83.9		20-150
STL01054	13C8 PFOS	82.6		20-150
STL01056	13C8 PFOSA	70.5		20-150
STL02118	d3-NMeFOSAA	77.0		20-150
STL02117	d5-NEtFOSAA	86.7		20-150
STL02395	M2-4:2 FTS	107		20-150
STL02279	M2-6:2 FTS	104		20-150
STL02280	M2-8:2 FTS	92.6		20-150
STL02255	13C3 HFPO-DA	90.2		20-150
STL02277	d7-N-MeFOSE-M	67.1		20-150
STL02278	d9-N-EtFOSE-M	64.2		20-150
STL02704	d5-NEtPFOSA	59.0		20-150
STL02705	D3-NMeFOSA	63.3		20-150
STL02703	13C2-PFDoDA	88.5		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: rush_samples19.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.54(g) | Date Analyzed: 11/02/2024 18:19

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 8.6 % Solids: 91.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
375-22-4	Perfluorobutanoic acid (PFBA)	0.71	U	0.71	0.18	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.36	U	0.36	0.089	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.044	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.044	
335-67-1	Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.044	
375-95-1	Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.044	
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.044	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.044	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.044	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.044	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.044	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.044	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.044	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.044	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.044	UJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.10	J	0.18	0.044	UJ
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.044	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.044	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.71	U	0.71	0.18	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.71	U	0.71	0.18	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.71	U	0.71	0.18	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.044	
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.044	
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.044	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.044	

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PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: rush_samples19.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.54(g) | Date Analyzed: 11/02/2024 18:19

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 8.6 % Solids: 91.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.044	
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.44	
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.44	
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.71	U	0.71	0.18	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.71	U	0.71	0.18	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	0.36	0.089	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	0.36	0.089	
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.71	U	0.71	0.18	
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.71	U	0.71	0.18	
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	0.36	0.089	
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.89	U	0.89	0.22	
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	4.4	1.1	
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.4	U	4.4	1.1	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.044	UJ
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	0.36	0.089	

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PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') | Lab Sample ID: 480-224950-7

Matrix: Solid | Lab File ID: rush_samples19.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:50

Sample wt/vol: 1.54(g) | Date Analyzed: 11/02/2024 18:19

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 8.6 % Solids: 91.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	96.2		20-150
STL01893	13C5 PFPeA	81.9		20-150
STL02577	13C5 PFHxA	86.1		20-150
STL01892	13C4 PFHpA	86.7		20-150
STL01052	13C8 PFOA	87.1		20-150
STL02578	13C9 PFNA	88.4		20-150
STL02579	13C6 PFDA	85.4		20-150
STL02580	13C7 PFUnA	85.3		20-150
STL02116	13C2 PFTeDA	94.7		20-150
STL02337	13C3 PFBS	86.5		20-150
STL02581	13C3 PFHxS	85.1		20-150
STL01054	13C8 PFOS	86.0		20-150
STL01056	13C8 PFOSA	68.9		20-150
STL02118	d3-NMeFOSAA	79.3		20-150
STL02117	d5-NEtFOSAA	90.8		20-150
STL02395	M2-4:2 FTS	102		20-150
STL02279	M2-6:2 FTS	107		20-150
STL02280	M2-8:2 FTS	109		20-150
STL02255	13C3 HFPO-DA	87.0		20-150
STL02277	d7-N-MeFOSE-M	66.8		20-150
STL02278	d9-N-EtFOSE-M	65.7		20-150
STL02704	d5-NEtPFOSA	63.9		20-150
STL02705	D3-NMeFOSA	64.5		20-150
STL02703	13C2-PFDoDA	89.8		20-150

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PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: rush_samples30.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:51

Sample wt/vol: 1.53(g) | Date Analyzed: 11/02/2024 21:22

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 11.7 % Solids: 88.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
375-22-4	Perfluorobutanoic acid (PFBA)	0.74	U	0.74	0.19	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.37	U	0.37	0.093	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.046	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.046	
335-67-1	Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.046	
375-95-1	Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.046	
335-76-2	Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.046	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.046	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.046	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.046	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.046	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.046	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.046	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.046	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.046	UJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.046	UJ
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.046	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.046	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.74	U	0.74	0.19	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.74	U	0.74	0.19	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.74	U	0.74	0.19	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.046	
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.046	
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.046	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.046	

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FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: rush_samples30.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:51

Sample wt/vol: 1.53(g) | Date Analyzed: 11/02/2024 21:22

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 11.7 % Solids: 88.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.046	
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.46	
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.46	
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.74	U	0.74	0.19	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.74	U	0.74	0.19	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U	0.37	0.093	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U	0.37	0.093	
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.74	U	0.74	0.19	
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.74	U	0.74	0.19	
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U	0.37	0.093	
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.93	U	0.93	0.23	
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.6	U	4.6	1.2	
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.6	U	4.6	1.2	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.046	UJ
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U	0.37	0.093	

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FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 Native (8-9') | Lab Sample ID: 480-224950-9

Matrix: Solid | Lab File ID: rush_samples30.d

Analysis Method: Draft-3 1633 | Date Collected: 10/29/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 11/01/2024 07:51

Sample wt/vol: 1.53(g) | Date Analyzed: 11/02/2024 21:22

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 11.7 % Solids: 88.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633665 | Units: ug/Kg

Preparation Batch No.: 633445 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	88.0		20-150
STL01893	13C5 PFPeA	77.3		20-150
STL02577	13C5 PFHxA	79.7		20-150
STL01892	13C4 PFHpA	79.4		20-150
STL01052	13C8 PFOA	80.4		20-150
STL02578	13C9 PFNA	79.6		20-150
STL02579	13C6 PFDA	80.1		20-150
STL02580	13C7 PFUnA	75.0		20-150
STL02116	13C2 PFTeDA	67.4		20-150
STL02337	13C3 PFBS	85.7		20-150
STL02581	13C3 PFHxS	79.0		20-150
STL01054	13C8 PFOS	78.9		20-150
STL01056	13C8 PFOSA	61.6		20-150
STL02118	d3-NMeFOSAA	74.0		20-150
STL02117	d5-NEtFOSAA	79.1		20-150
STL02395	M2-4:2 FTS	93.0		20-150
STL02279	M2-6:2 FTS	89.6		20-150
STL02280	M2-8:2 FTS	90.2		20-150
STL02255	13C3 HFPO-DA	82.1		20-150
STL02277	d7-N-MeFOSE-M	61.9		20-150
STL02278	d9-N-EtFOSE-M	59.8		20-150
STL02704	d5-NEtPFOSA	49.6		20-150
STL02705	D3-NMeFOSA	50.1		20-150
STL02703	13C2-PFDoDA	76.4		20-150

METALS

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224950-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
BH-10 (2-4')	480-224950-1
VP-4 (2-4')	480-224950-2
VP-4 QA/QC (2-4')	480-224950-3
VP-2 (2-4')	480-224950-4
VP-1 (2-4')	480-224950-5
VP-3 (2-4')	480-224950-7
VP-3 Native (8-9')	480-224950-9

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-10 (2-4')
Lab Sample ID: 480-224950-1
Lab Name: Eurofins Buffalo
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 09:30
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 730482
Instrument ID: ICAP3
% Solids: 90.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3670	10.9	9.4	mg/Kg			1	6010C
7440-36-0	Antimony	16.4	16.4	0.58	mg/Kg	U		1	6010C
7440-38-2	Arsenic	3.0	2.2	0.96	mg/Kg			1	6010C
7440-39-3	Barium	82.3	0.55	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.23	0.22	0.044	mg/Kg			1	6010C
7440-43-9	Cadmium	0.48	0.22	0.076	mg/Kg			1	6010C
7440-70-2	Calcium	103000	273	147	mg/Kg			5	6010C
7440-47-3	Chromium	7.5	0.55	0.39	mg/Kg			1	6010C
7440-48-4	Cobalt	2.7	0.55	0.11	mg/Kg			1	6010C
7440-50-8	Copper	15.5	1.1	0.62	mg/Kg			1	6010C
7439-89-6	Iron	5370	10.9	9.3	mg/Kg			1	6010C
7439-92-1	Lead	89.3	1.1	0.50	mg/Kg			1	6010C
7439-95-4	Magnesium	41600	21.9	9.3	mg/Kg			1	6010C
7439-96-5	Manganese	284	1.1	0.31	mg/Kg			1	6010C
7440-02-0	Nickel	7.2	5.5	0.27	mg/Kg			1	6010C
7440-09-7	Potassium	933	32.8	26.5	mg/Kg			1	6010C
7782-49-2	Selenium	4.4	4.4	0.87	mg/Kg	U		1	6010C
7440-22-4	Silver	0.66	0.66	0.22	mg/Kg	U		1	6010C
7440-23-5	Sodium	250	153	67.0	mg/Kg			1	6010C
7440-28-0	Thallium	6.6	6.6	0.83	mg/Kg	U		1	6010C
7440-62-2	Vanadium	9.8	0.55	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	148	2.2	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.41	0.021	0.0049	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VP-4 (2-4') | Lab Sample ID: 480-224950-2

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG ID.:

Matrix: Solid | Date Sampled: 10/29/2024 10:45

Reporting Basis: DRY | Date Received: 10/30/2024 16:22

Preparation Batch Number: 730482 | Instrument ID: ICAP3

% Solids: 89.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7429-90-5	Aluminum	5280	11.7	10.1	mg/Kg			1	6010C	
7440-36-0	Antimony	17.6	17.6	0.62	mg/Kg	U		1	6010C	
7440-38-2	Arsenic	1.8	2.3	1.0	mg/Kg	J		1	6010C	
7440-39-3	Barium	30.5	0.59	0.16	mg/Kg			1	6010C	
7440-41-7	Beryllium	0.22	0.23	0.047	mg/Kg	J		1	6010C	
7440-43-9	Cadmium	0.99	0.23	0.082	mg/Kg			1	6010C	
7440-70-2	Calcium	111000	293	158	mg/Kg			5	6010C	
7440-47-3	Chromium	5.5	0.59	0.42	mg/Kg			1	6010C	
7440-48-4	Cobalt	2.2	0.59	0.12	mg/Kg			1	6010C	
7440-50-8	Copper	9.0	1.2	0.67	mg/Kg			1	6010C	J
7439-89-6	Iron	5990	11.7	9.9	mg/Kg			1	6010C	
7439-92-1	Lead	46.9	1.2	0.54	mg/Kg			1	6010C	
7439-95-4	Magnesium	66900	117	49.6	mg/Kg			5	6010C	
7439-96-5	Manganese	696	1.2	0.33	mg/Kg			1	6010C	
7440-02-0	Nickel	4.9	5.9	0.29	mg/Kg	J		1	6010C	
7440-09-7	Potassium	1070	35.1	28.4	mg/Kg			1	6010C	
7782-49-2	Selenium	4.7	4.7	0.94	mg/Kg	U		1	6010C	
7440-22-4	Silver	0.70	0.70	0.23	mg/Kg	U		1	6010C	
7440-23-5	Sodium	197	164	71.7	mg/Kg			1	6010C	
7440-28-0	Thallium	0.93	7.0	0.89	mg/Kg	J		1	6010C	
7440-62-2	Vanadium	9.6	0.59	0.15	mg/Kg			1	6010C	
7440-66-6	Zinc	395	2.3	1.2	mg/Kg			1	6010C	
7439-97-6	Mercury	0.17	0.023	0.0052	mg/Kg			1	7471B	J

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1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3
Lab Name: Eurofins Buffalo
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 10:45
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 730482
Instrument ID: ICAP3
% Solids: 85.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7429-90-5	Aluminum	7150	11.2	9.7	mg/Kg			1	6010C	
7440-36-0	Antimony	16.8	16.8	0.59	mg/Kg	U		1	6010C	
7440-38-2	Arsenic	2.6	2.2	0.99	mg/Kg			1	6010C	
7440-39-3	Barium	31.2	0.56	0.16	mg/Kg			1	6010C	
7440-41-7	Beryllium	0.26	0.22	0.045	mg/Kg			1	6010C	
7440-43-9	Cadmium	1.2	0.22	0.079	mg/Kg			1	6010C	
7440-70-2	Calcium	121000	280	151	mg/Kg			5	6010C	
7440-47-3	Chromium	7.3	0.56	0.40	mg/Kg			1	6010C	
7440-48-4	Cobalt	3.0	0.56	0.11	mg/Kg			1	6010C	
7440-50-8	Copper	5.1	1.1	0.64	mg/Kg			1	6010C	J
7439-89-6	Iron	8250	11.2	9.5	mg/Kg			1	6010C	
7439-92-1	Lead	33.1	1.1	0.52	mg/Kg			1	6010C	
7439-95-4	Magnesium	71500	112	47.6	mg/Kg			5	6010C	
7439-96-5	Manganese	875	1.1	0.31	mg/Kg			1	6010C	
7440-02-0	Nickel	5.9	5.6	0.28	mg/Kg			1	6010C	
7440-09-7	Potassium	1110	33.7	27.2	mg/Kg			1	6010C	
7782-49-2	Selenium	4.5	4.5	0.90	mg/Kg	U		1	6010C	
7440-22-4	Silver	0.67	0.67	0.22	mg/Kg	U		1	6010C	
7440-23-5	Sodium	238	157	68.8	mg/Kg			1	6010C	
7440-28-0	Thallium	0.99	6.7	0.85	mg/Kg	J		1	6010C	
7440-62-2	Vanadium	12.7	0.56	0.15	mg/Kg			1	6010C	
7440-66-6	Zinc	386	2.2	1.1	mg/Kg			1	6010C	
7439-97-6	Mercury	0.089	0.024	0.0055	mg/Kg			1	7471B	J

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1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VP-2 (2-4')
Lab Sample ID: 480-224950-4
Lab Name: Eurofins Buffalo
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 13:30
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 730482
Instrument ID: ICAP3
% Solids: 93.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	1830	10.8	9.3	mg/Kg			1	6010C
7440-36-0	Antimony	16.2	16.2	0.57	mg/Kg	U		1	6010C
7440-38-2	Arsenic	1.1	2.2	0.95	mg/Kg	J		1	6010C
7440-39-3	Barium	7.1	0.54	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.079	0.22	0.043	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.49	0.22	0.075	mg/Kg			1	6010C
7440-70-2	Calcium	167000	269	145	mg/Kg			5	6010C
7440-47-3	Chromium	2.5	0.54	0.39	mg/Kg			1	6010C
7440-48-4	Cobalt	0.54	0.54	0.11	mg/Kg			1	6010C
7440-50-8	Copper	2.6	1.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	2570	10.8	9.1	mg/Kg			1	6010C
7439-92-1	Lead	7.2	1.1	0.50	mg/Kg			1	6010C
7439-95-4	Magnesium	104000	108	45.7	mg/Kg			5	6010C
7439-96-5	Manganese	347	1.1	0.30	mg/Kg			1	6010C
7440-02-0	Nickel	1.7	5.4	0.27	mg/Kg	J		1	6010C
7440-09-7	Potassium	580	32.3	26.1	mg/Kg			1	6010C
7782-49-2	Selenium	4.3	4.3	0.86	mg/Kg	U		1	6010C
7440-22-4	Silver	0.65	0.65	0.22	mg/Kg	U		1	6010C
7440-23-5	Sodium	180	151	66.0	mg/Kg			1	6010C
7440-28-0	Thallium	0.95	6.5	0.82	mg/Kg	J		1	6010C
7440-62-2	Vanadium	3.2	0.54	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	175	2.2	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.062	0.022	0.0050	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VP-1 (2-4') Lab Sample ID: 480-224950-5

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG ID.:

Matrix: Solid Date Sampled: 10/29/2024 14:00

Reporting Basis: DRY Date Received: 10/30/2024 16:22

Preparation Batch Number: 730482 Instrument ID: ICAP3

% Solids: 91.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7429-90-5	Aluminum	3480	10.8	9.3	mg/Kg		F1	1	6010C	J
7440-36-0	Antimony	16.2	16.2	0.57	mg/Kg	U	F1	1	6010C	J-
7440-38-2	Arsenic	2.3	2.2	0.95	mg/Kg		F1	1	6010C	J-
7440-39-3	Barium	44.0	0.54	0.15	mg/Kg		F1	1	6010C	J
7440-41-7	Beryllium	0.15	0.22	0.043	mg/Kg	J	F1	1	6010C	J-
7440-43-9	Cadmium	0.65	0.22	0.076	mg/Kg		F1	1	6010C	J-
7440-70-2	Calcium	131000	270	146	mg/Kg			5	6010C	
7440-47-3	Chromium	4.6	0.54	0.39	mg/Kg		F1	1	6010C	J-
7440-48-4	Cobalt	1.9	0.54	0.11	mg/Kg		F1	1	6010C	J-
7440-50-8	Copper	37.3	1.1	0.62	mg/Kg		F1 F2	1	6010C	J-
7439-89-6	Iron	4740	10.8	9.2	mg/Kg			1	6010C	J
7439-92-1	Lead	68.9	1.1	0.50	mg/Kg		F1	1	6010C	J
7439-95-4	Magnesium	68800	108	45.8	mg/Kg			5	6010C	
7439-96-5	Manganese	378	1.1	0.30	mg/Kg		F1	1	6010C	J
7440-02-0	Nickel	4.1	5.4	0.27	mg/Kg	J	F1	1	6010C	J-
7440-09-7	Potassium	943	32.4	26.2	mg/Kg			1	6010C	J
7782-49-2	Selenium	4.3	4.3	0.86	mg/Kg	U	F1	1	6010C	J-
7440-22-4	Silver	0.65	0.65	0.22	mg/Kg	U	F1	1	6010C	J-
7440-23-5	Sodium	186	151	66.3	mg/Kg			1	6010C	
7440-28-0	Thallium	6.5	6.5	0.82	mg/Kg	U	F1	1	6010C	J-
7440-62-2	Vanadium	7.5	0.54	0.14	mg/Kg		F1	1	6010C	J
7440-66-6	Zinc	205	2.2	1.1	mg/Kg		F1	1	6010C	J
7439-97-6	Mercury	0.12	0.022	0.0051	mg/Kg			1	7471B	

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1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VP-3 (2-4') Lab Sample ID: 480-224950-7

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG ID.:

Matrix: Solid Date Sampled: 10/29/2024 15:30

Reporting Basis: DRY Date Received: 10/30/2024 16:22

Preparation Batch Number: 730482 Instrument ID: ICAP3

% Solids: 91.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7429-90-5	Aluminum	9050	11.4	9.9	mg/Kg			1	6010C	J
7440-36-0	Antimony	17.2	17.2	0.61	mg/Kg	U	F1 F2	1	6010C	J-
7440-38-2	Arsenic	4.0	2.3	1.0	mg/Kg		F1	1	6010C	J-
7440-39-3	Barium	136	0.57	0.16	mg/Kg		F1 F2	1	6010C	J-
7440-41-7	Beryllium	0.36	0.23	0.046	mg/Kg		F1 F2	1	6010C	J-
7440-43-9	Cadmium	0.56	0.23	0.080	mg/Kg		F1 F2	1	6010C	J-
7440-70-2	Calcium	108000	286	155	mg/Kg		F2	5	6010C	J
7440-47-3	Chromium	12.3	0.57	0.41	mg/Kg		F1 F2	1	6010C	J-
7440-48-4	Cobalt	4.3	0.57	0.11	mg/Kg		F1 F2	1	6010C	J-
7440-50-8	Copper	21.5	1.1	0.65	mg/Kg		F1 F2	1	6010C	J
7439-89-6	Iron	12200	11.4	9.7	mg/Kg		F2	1	6010C	
7439-92-1	Lead	176	1.1	0.53	mg/Kg		F1 F2	1	6010C	J
7439-95-4	Magnesium	45500	22.9	9.7	mg/Kg		F2	1	6010C	J
7439-96-5	Manganese	461	1.1	0.32	mg/Kg		F1 F2	1	6010C	J
7440-02-0	Nickel	9.8	5.7	0.29	mg/Kg		F1 F2	1	6010C	J-
7440-09-7	Potassium	2300	34.3	27.8	mg/Kg		F1 F2	1	6010C	J-
7782-49-2	Selenium	4.6	4.6	0.92	mg/Kg	U	F1	1	6010C	J-
7440-22-4	Silver	0.69	0.69	0.23	mg/Kg	U	F1 F2	1	6010C	J-
7440-23-5	Sodium	547	160	70.2	mg/Kg		F1 F2	1	6010C	J-
7440-28-0	Thallium	6.9	6.9	0.87	mg/Kg	U		1	6010C	
7440-62-2	Vanadium	16.9	0.57	0.15	mg/Kg		F1 F2	1	6010C	J
7440-66-6	Zinc	177	2.3	1.2	mg/Kg		F1 F2	1	6010C	J
7439-97-6	Mercury	4.5	0.23	0.053	mg/Kg			10	7471B	J

MKP 12/10/2024

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9
Lab Name: Eurofins Buffalo
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 15:30
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 730482
Instrument ID: ICAP3
% Solids: 88.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3390	11.6	10	mg/Kg			1	6010C
7440-36-0	Antimony	17.3	17.3	0.61	mg/Kg	U		1	6010C
7440-38-2	Arsenic	1.9	2.3	1.0	mg/Kg	J		1	6010C
7440-39-3	Barium	15.5	0.58	0.16	mg/Kg			1	6010C
7440-41-7	Beryllium	0.14	0.23	0.046	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.72	0.23	0.081	mg/Kg			1	6010C
7440-70-2	Calcium	133000	289	156	mg/Kg			5	6010C
7440-47-3	Chromium	3.8	0.58	0.42	mg/Kg			1	6010C
7440-48-4	Cobalt	1.7	0.58	0.12	mg/Kg			1	6010C
7440-50-8	Copper	9.3	1.2	0.66	mg/Kg			1	6010C
7439-89-6	Iron	4920	11.6	9.8	mg/Kg			1	6010C
7439-92-1	Lead	47.2	1.2	0.53	mg/Kg			1	6010C
7439-95-4	Magnesium	79000	116	49.0	mg/Kg			5	6010C
7439-96-5	Manganese	429	1.2	0.32	mg/Kg			1	6010C
7440-02-0	Nickel	4.0	5.8	0.29	mg/Kg	J		1	6010C
7440-09-7	Potassium	1100	34.7	28.0	mg/Kg			1	6010C
7782-49-2	Selenium	4.6	4.6	0.92	mg/Kg	U		1	6010C
7440-22-4	Silver	0.69	0.69	0.23	mg/Kg	U		1	6010C
7440-23-5	Sodium	166	162	70.9	mg/Kg			1	6010C
7440-28-0	Thallium	1.0	6.9	0.88	mg/Kg	J		1	6010C
7440-62-2	Vanadium	7.0	0.58	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	156	2.3	1.2	mg/Kg			1	6010C
7439-97-6	Mercury	0.039	0.022	0.0050	mg/Kg			1	7471B

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224950-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
BH-10 (2-4')	480-224950-1
VP-4 (2-4')	480-224950-2
VP-4 QA/QC (2-4')	480-224950-3
VP-2 (2-4')	480-224950-4
VP-1 (2-4')	480-224950-5
VP-3 (2-4')	480-224950-7
VP-3 Native (8-9')	480-224950-9

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job Number: 480-224950-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
BH-10 (2-4')	480-224950-1
VP-4 (2-4')	480-224950-2
VP-4 QA/QC (2-4')	480-224950-3
VP-2 (2-4')	480-224950-4
VP-1 (2-4')	480-224950-5
VP-3 (2-4')	480-224950-7
VP-3 Native (8-9')	480-224950-9

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-10 (2-4')
Lab Sample ID: 480-224950-1
Lab Name: Eurofins Buffalo
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 09:30
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 731281
Instrument ID: SEAL 1
% Solids: 90.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.0	1.0	0.49	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-4 (2-4')
Lab Sample ID: 480-224950-2
Lab Name: Eurofins Buffalo
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 10:45
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 731281
Instrument ID: SEAL 1
% Solids: 89.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.0	1.0	0.50	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3
Lab Name: Eurofins Buffalo
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 10:45
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 731281
Instrument ID: SEAL 1
% Solids: 85.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.1	1.1	0.56	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-2 (2-4')
Lab Sample ID: 480-224950-4
Lab Name: Eurofins Buffalo
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 13:30
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 731281
Instrument ID: SEAL 1
% Solids: 93.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.91	0.91	0.44	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-1 (2-4')
Lab Sample ID: 480-224950-5
Lab Name: Eurofins Buffalo
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 14:00
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 731281
Instrument ID: SEAL 1
% Solids: 91.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
57-12-5	Cyanide, Total	1.1	1.1	0.52	mg/Kg	U	F1	1	9012B	UJ

MKP 12/10/2024

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-3 (2-4')
Lab Sample ID: 480-224950-7
Lab Name: Eurofins Buffalo
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 15:30
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 731281
Instrument ID: SEAL 1
% Solids: 91.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
57-12-5	Cyanide, Total	0.99	0.99	0.48	mg/Kg	U	F1	1	9012B	UJ

MKP 12/10/2024

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9
Lab Name: Eurofins Buffalo
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 15:30
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 731281
Instrument ID: SEAL 1
% Solids: 88.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.0	1.0	0.49	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-10 (2-4')
Lab Sample ID: 480-224950-1
Lab Name: Eurofins Edison
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 09:30
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 1006265
Instrument ID: WetHexSpec
% Solids: 90.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.2	2.2	0.92	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-4 (2-4')
Lab Sample ID: 480-224950-2
Lab Name: Eurofins Edison
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 10:45
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 1006265
Instrument ID: WetHexSpec
% Solids: 89.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.2	2.2	0.93	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-4 QA/QC (2-4')
Lab Sample ID: 480-224950-3
Lab Name: Eurofins Edison
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 10:45
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 1006265
Instrument ID: WetHexSpec
% Solids: 85.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.3	2.3	0.98	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-2 (2-4')
Lab Sample ID: 480-224950-4
Lab Name: Eurofins Edison
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 13:30
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 1006265
Instrument ID: WetHexSpec
% Solids: 93.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.1	2.1	0.89	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-1 (2-4')
Lab Sample ID: 480-224950-5
Lab Name: Eurofins Edison
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 14:00
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 1006455
Instrument ID: WetHexSpec
% Solids: 91.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.2	2.2	0.93	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-3 (2-4')
Lab Sample ID: 480-224950-7
Lab Name: Eurofins Edison
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 15:30
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 1006455
Instrument ID: WetHexSpec
% Solids: 91.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.2	2.2	0.93	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VP-3 Native (8-9')
Lab Sample ID: 480-224950-9
Lab Name: Eurofins Edison
Job No.: 480-224950-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/29/2024 15:30
Reporting Basis: DRY
Date Received: 10/30/2024 16:22
Preparation Batch Number: 1006455
Instrument ID: WetHexSpec
% Solids: 88.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.2	2.2	0.94	mg/Kg	U		1	7196A

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: Jacob COX	Sampler: Joseph Gambino
Company: Bridges Engineering – BE3	Phone: 716.249.6880
Address: 960 Busti Ave, Suite B-150	Due Date Requested:
City: Buffalo	TAT Requested (days): Standard 10 Day TAT
State, Zip: NY, 14213	PO #:
Phone: 716.249.6880	WO #:
Email:	SSOW#:
Site:	

Lab PM: Beniati, John	Carrier Tracking No(s):
E-Mail: JCOX@BE3corp.com	State of Origin:
Accreditations Required (See note):	
Due Date Requested:	
TAT Requested (days):	
PO #:	
WO #:	
SSOW#:	

COC No:
Page:
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 - TCL VOCs + TICS	6010C, 7471B, 8081B	8082A, 8151A, 8270D	1633_final - 1633 Standard List + HO	7196A, 9012B	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH-10 (2-4')	10-29-24	9:30AM	G	S			X	X	X	X	X		Added Hex Chrom + Cyanide
VP-4 (2-4')	10-29-24	10:45AM	G	S			X	X	X	X	X		
VP-4 QA/QC (2-4')	10-29-24	10:45AM	G	S			X	X	X	X	X		
VP-2 (2-4')	10-29-24	1:30PM	G	S			X	X	X	X	X		
VP-1 (2-4')	10-29-24	2:00PM	G	S			X	X	X	X	X		
VP-1 MS (2-4')	10-29-24	2:00PM	G	S			X	X	X	X	X		
VP-3 (2-4')	10-29-24	3:30PM	G	S			X	X	X	X	X		
VP-3 MSD (2-4')	10-29-24	3:30PM	G	S			X	X	X	X	X		
VP-3 Native (8-9')	10-29-24	3:30PM	G	S			X	X	X	X	X		

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Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Y - Trizma
	Z - other (specify)

Other:

480-224950 Chain of Custody

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

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

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: 10/29/24 @4:30pm	Company: BE3	Received by: MS		Date/Time: 10-29-24 1622	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: 4.2 ICE IR#SC			

Ver: 06/08/2021

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90143.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-224950-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/12/2024			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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

PFAS 47

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:						
BH-10 (2-4) (480-224950-1)	10/29/24	09:30 Eastern	G	Solid			X	1	
VP-4 (2-4) (480-224950-2)	10/29/24	10:45 Eastern	G	Solid			X	1	
VP-4 QA/QC (2-4) (480-224950-3)	10/29/24	10:45 Eastern	G	Solid			X	1	
VP-2 (2-4) (480-224950-4)	10/29/24	13:00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5)	10/29/24	14.00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5MS)	10/29/24	14:00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5MSD)	10/29/24	14.00 Eastern	G	Solid			X	1	
VP-3 (2-4) (480-224950-7)	10/29/24	15:30 Eastern	G	Solid			X	1	
VP-3 (2-4) (480-224950-7MS)	10/29/24	15:30 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
[signature]	10-30-24 1600		JESSE MOROSKO	10/31/24 0930	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
Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90143.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-224950-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/12/2024			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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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:						
VP-3 (2-4) (480-224950-7MSD)	10/29/24	15:30 Eastern	G	Solid			X	1	
VP-3 Native (8-9) (480-224950-9)	10/29/24	15:30 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
			JESSE MOROSKO	10/31/24 0930	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 | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90144.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-224950-1
Address: 777 New Durham Road,	Due Date Requested: 11/12/2024			Preservation Codes:
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis	Project #: 48028073			
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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH-10 (2-4) (480-224950-1)	10/29/24	09:30 Eastern	G	Solid			X	1	
VP-4 (2-4) (480-224950-2)	10/29/24	10:45 Eastern	G	Solid			X	1	
VP-4 QA/QC (2-4) (480-224950-3)	10/29/24	10:45 Eastern	G	Solid			X	1	
VP-2 (2-4) (480-224950-4)	10/29/24	13:00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5)	10/29/24	14.00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5MS)	10/29/24	14:00 Eastern	G	Solid			X	1	
VP-1 (2-4) (480-224950-5MSD)	10/29/24	14.00 Eastern	G	Solid			X	1	
VP-3 (2-4) (480-224950-7)	10/29/24	15:30 Eastern	G	Solid			X	1	
VP-3 (2-4) (480-224950-7MS)	10/29/24	15:30 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: Unconfirmed	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) 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
	10-30-24 1606			10/31/24 1640	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: 0.9/1.1 IR9

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90144.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-224950-1
Address: 777 New Durham Road,	Due Date Requested: 11/12/2024			
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: 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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
VP-3 (2-4) (480-224950-7MSD)	10/29/24	15:30 Eastern	G	Solid			X	1	
VP-3 Native (8-9) (480-224950-9)	10/29/24	15:30 Eastern	G	Solid			X	1	

Analysis Requested

Preservation Codes:

Other: N/A

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
			Fedex	10/31/24 1040	ET
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: 0911 IR9

Ver 10/10/2024

Appendix B

Laboratory QC Documentation

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: R0806.D

Lab ID: 480-224950-5 MS Client ID: VP-1 (2-4') MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	54.0	5.3 U	49.6	92	77-121	vs
1,1,2,2-Tetrachloroethane	54.0	5.3 U	59.8	111	80-120	vs
1,1,2-Trichloroethane	54.0	5.3 U	50.3	93	78-122	vs
1,1,2-Trichloro-1,2,2-trifluoroethane	54.0	5.3 U	51.5	95	60-140	vs
1,1-Dichloroethane	54.0	5.3 U	52.7	98	73-126	vs
1,1-Dichloroethene	54.0	5.3 U	52.1	96	59-125	vs
1,2,4-Trichlorobenzene	54.0	5.3 U	20.6	38	64-120	F1 vs
1,2-Dibromo-3-Chloropropane	54.0	5.3 U	42.5	79	63-124	vs
1,2-Dichlorobenzene	54.0	5.3 U	45.8	85	75-120	vs
1,2-Dichloroethane	54.0	5.3 U	44.9	83	77-122	vs
1,2-Dichloropropane	54.0	5.3 U	49.9	93	75-124	vs
1,3-Dichlorobenzene	54.0	5.3 U	44.8	83	74-120	vs
1,4-Dichlorobenzene	54.0	5.3 U	44.2	82	73-120	vs
2-Butanone (MEK)	270	26 U	169	63	70-134	F1 vs
2-Hexanone	270	26 U	207	77	59-130	vs
4-Methyl-2-pentanone (MIBK)	270	26 U	225	83	65-133	vs
Acetone	270	9.0 J	167	59	61-137	F1 vs
Benzene	54.0	5.3 U	51.9	96	79-127	vs
Bromodichloromethane	54.0	5.3 U	45.5	84	80-122	vs
Bromoform	54.0	5.3 U	38.2	71	68-126	vs
Bromomethane	54.0	5.3 U	53.8	100	37-149	vs
Carbon disulfide	54.0	5.3 U	48.2	89	64-131	vs
Carbon tetrachloride	54.0	5.3 U	46.0	85	75-135	vs
Chlorobenzene	54.0	5.3 U	51.1	95	76-124	vs
Dibromochloromethane	54.0	5.3 U	50.4	93	76-125	vs
Chloroethane	54.0	5.3 U	54.8	101	69-135	vs
Chloroform	54.0	0.51 J	49.8	91	80-120	vs
Chloromethane	54.0	5.3 U	57.0	106	63-127	vs
cis-1,2-Dichloroethene	54.0	5.3 U	50.4	93	80-120	vs
cis-1,3-Dichloropropene	54.0	5.3 U	43.0	80	80-120	vs
Cyclohexane	54.0	5.3 U	44.8	83	65-120	vs
Dichlorodifluoromethane	54.0	5.3 U	49.0	91	57-142	vs
Ethylbenzene	54.0	5.3 U	52.3	97	80-120	vs
1,2-Dibromoethane	54.0	5.3 U	47.9	89	78-120	vs
Isopropylbenzene	54.0	5.3 U	65.1	121	72-120	F1 vs
Methyl acetate	108	26 U	76.6	71	55-136	vs
Methyl tert-butyl ether	54.0	5.3 U	44.1	82	63-125	vs
Methylcyclohexane	54.0	5.3 U	31.7	59	60-140	F1 vs
Methylene Chloride	54.0	2.4 J	56.9	105	61-127	vs
Styrene	54.0	5.3 U	46.7	87	80-120	vs
Tetrachloroethene	54.0	3.9 J	55.0	95	74-122	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: M16313.D

Lab ID: 480-224950-7 MS Client ID: VP-3 (2-4') MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	53.0	5.4 U	44.1	83	77-121	
1,1,2,2-Tetrachloroethane	53.0	5.4 U	42.2	80	80-120	
1,1,2-Trichloroethane	53.0	5.4 U	44.2	83	78-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	53.0	5.4 U	43.5	82	60-140	
1,1-Dichloroethane	53.0	5.4 U	51.4	97	73-126	
1,1-Dichloroethene	53.0	5.4 U	47.2	89	59-125	
1,2,4-Trichlorobenzene	53.0	5.4 U	20.1	38	64-120	F1
1,2-Dibromo-3-Chloropropane	53.0	5.4 U	31.3	59	63-124	F1
1,2-Dichlorobenzene	53.0	5.4 U	36.9	70	75-120	F1
1,2-Dichloroethane	53.0	5.4 U	46.2	87	77-122	
1,2-Dichloropropane	53.0	5.4 U	49.9	94	75-124	
1,3-Dichlorobenzene	53.0	5.4 U	36.2	68	74-120	F1
1,4-Dichlorobenzene	53.0	5.4 U	34.8	66	73-120	F1
2-Butanone (MEK)	265	27 U	183	69	70-134	F1
2-Hexanone	265	27 U	200	76	59-130	
4-Methyl-2-pentanone (MIBK)	265	27 U	215	81	65-133	
Acetone	265	27 U	179	67	61-137	
Benzene	53.0	5.4 U	47.7	90	79-127	vs
Bromodichloromethane	53.0	5.4 U	44.1	83	80-122	
Bromoform	53.0	5.4 U	32.9	62	68-126	F1
Bromomethane	53.0	5.4 U	52.1	98	37-149	
Carbon disulfide	53.0	5.4 U	42.8	81	64-131	
Carbon tetrachloride	53.0	5.4 U	39.6	75	75-135	
Chlorobenzene	53.0	5.4 U	42.3	80	76-124	
Dibromochloromethane	53.0	5.4 U	42.0	79	76-125	
Chloroethane	53.0	5.4 U	56.6	107	69-135	
Chloroform	53.0	0.62 J	47.0	87	80-120	
Chloromethane	53.0	5.4 U	56.6	107	63-127	
cis-1,2-Dichloroethene	53.0	5.4 U	45.4	86	80-120	
cis-1,3-Dichloropropene	53.0	5.4 U	41.1	77	80-120	F1
Cyclohexane	53.0	5.4 U	42.9	81	65-120	
Dichlorodifluoromethane	53.0	5.4 U	44.5	84	57-142	
Ethylbenzene	53.0	5.4 U	42.8	81	80-120	vs
1,2-Dibromoethane	53.0	5.4 U	37.9	71	78-120	F1
Isopropylbenzene	53.0	5.4 U	40.4	76	72-120	vs
Methyl acetate	106	27 U	80.7	76	55-136	
Methyl tert-butyl ether	53.0	5.4 U	42.2	80	63-125	vs
Methylcyclohexane	53.0	5.4 U	29.8	56	60-140	F1
Methylene Chloride	53.0	5.4 U	50.3	95	61-127	
Styrene	53.0	5.4 U	40.1	76	80-120	F1
Tetrachloroethene	53.0	5.4 U	38.4	73	74-122	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: R0807.D

Lab ID: 480-224950-5 MSD Client ID: VP-1 (2-4') MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	54.0	45.4	84	9	30	77-121	vs
1,1,2,2-Tetrachloroethane	54.0	55.7	103	7	30	80-120	vs
1,1,2-Trichloroethane	54.0	47.7	88	5	30	78-122	vs
1,1,2-Trichloro-1,2,2-trifluoroethane	54.0	45.4	84	12	30	60-140	vs
1,1-Dichloroethane	54.0	49.4	92	6	30	73-126	vs
1,1-Dichloroethene	54.0	48.9	91	6	30	59-125	vs
1,2,4-Trichlorobenzene	54.0	19.9	37	3	30	64-120	F1 vs
1,2-Dibromo-3-Chloropropane	54.0	38.2	71	11	30	63-124	vs
1,2-Dichlorobenzene	54.0	43.2	80	6	30	75-120	vs
1,2-Dichloroethane	54.0	44.1	82	2	30	77-122	vs
1,2-Dichloropropane	54.0	49.6	92	1	30	75-124	vs
1,3-Dichlorobenzene	54.0	43.3	80	3	30	74-120	vs
1,4-Dichlorobenzene	54.0	42.8	79	3	30	73-120	vs
2-Butanone (MEK)	270	188	70	11	30	70-134	vs
2-Hexanone	270	212	79	2	30	59-130	vs
4-Methyl-2-pentanone (MIBK)	270	212	79	6	30	65-133	vs
Acetone	270	199	71	18	30	61-137	vs
Benzene	54.0	51.2	95	2	30	79-127	vs
Bromodichloromethane	54.0	46.0	85	1	30	80-122	vs
Bromoform	54.0	38.4	71	1	30	68-126	vs
Bromomethane	54.0	45.1	84	18	30	37-149	vs
Carbon disulfide	54.0	43.1	80	11	30	64-131	vs
Carbon tetrachloride	54.0	43.4	80	6	30	75-135	vs
Chlorobenzene	54.0	49.1	91	4	30	76-124	vs
Dibromochloromethane	54.0	48.5	90	4	30	76-125	vs
Chloroethane	54.0	46.5	86	16	30	69-135	vs
Chloroform	54.0	47.3	87	5	30	80-120	vs
Chloromethane	54.0	49.5	92	14	30	63-127	vs
cis-1,2-Dichloroethene	54.0	48.4	90	4	30	80-120	vs
cis-1,3-Dichloropropene	54.0	44.0	82	2	30	80-120	vs
Cyclohexane	54.0	41.9	78	7	30	65-120	vs
Dichlorodifluoromethane	54.0	40.8	76	18	30	57-142	vs
Ethylbenzene	54.0	49.1	91	6	30	80-120	vs
1,2-Dibromoethane	54.0	44.3	82	8	30	78-120	vs
Isopropylbenzene	54.0	60.4	112	8	30	72-120	vs
Methyl acetate	108	84.7	79	10	30	55-136	vs
Methyl tert-butyl ether	54.0	41.8	78	5	30	63-125	vs
Methylcyclohexane	54.0	32.3	60	2	30	60-140	vs
Methylene Chloride	54.0	51.6	96	10	30	61-127	vs
Styrene	54.0	44.4	82	5	30	80-120	vs
Tetrachloroethene	54.0	53.6	92	3	30	74-122	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: M16314.D

Lab ID: 480-224950-7 MSD Client ID: VP-3 (2-4') MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	54.3	38.9	72	13	30	77-121	F1
1,1,2,2-Tetrachloroethane	54.3	40.3	74	5	30	80-120	F1
1,1,2-Trichloroethane	54.3	42.4	78	4	30	78-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	54.3	37.2	68	16	30	60-140	
1,1-Dichloroethane	54.3	47.1	87	9	30	73-126	
1,1-Dichloroethene	54.3	40.1	74	16	30	59-125	
1,2,4-Trichlorobenzene	54.3	18.5	34	8	30	64-120	F1
1,2-Dibromo-3-Chloropropane	54.3	28.8	53	8	30	63-124	F1
1,2-Dichlorobenzene	54.3	34.7	64	6	30	75-120	F1
1,2-Dichloroethane	54.3	43.1	79	7	30	77-122	
1,2-Dichloropropane	54.3	46.3	85	7	30	75-124	
1,3-Dichlorobenzene	54.3	33.1	61	9	30	74-120	F1
1,4-Dichlorobenzene	54.3	32.3	60	7	30	73-120	F1
2-Butanone (MEK)	271	170	63	8	30	70-134	F1
2-Hexanone	271	187	69	7	30	59-130	
4-Methyl-2-pentanone (MIBK)	271	204	75	5	30	65-133	
Acetone	271	169	62	6	30	61-137	
Benzene	54.3	43.3	80	10	30	79-127	vs
Bromodichloromethane	54.3	41.6	77	6	30	80-122	F1
Bromoform	54.3	31.6	58	4	30	68-126	F1
Bromomethane	54.3	45.7	84	13	30	37-149	
Carbon disulfide	54.3	36.9	68	15	30	64-131	
Carbon tetrachloride	54.3	34.5	64	14	30	75-135	F1
Chlorobenzene	54.3	40.3	74	5	30	76-124	F1
Dibromochloromethane	54.3	40.6	75	3	30	76-125	F1
Chloroethane	54.3	48.7	90	15	30	69-135	
Chloroform	54.3	43.2	78	8	30	80-120	F1
Chloromethane	54.3	51.3	95	10	30	63-127	
cis-1,2-Dichloroethene	54.3	41.4	76	9	30	80-120	F1
cis-1,3-Dichloropropene	54.3	38.1	70	7	30	80-120	F1
Cyclohexane	54.3	35.6	66	18	30	65-120	
Dichlorodifluoromethane	54.3	37.5	69	17	30	57-142	
Ethylbenzene	54.3	39.2	72	9	30	80-120	F1 vs
1,2-Dibromoethane	54.3	36.6	68	3	30	78-120	F1
Isopropylbenzene	54.3	35.9	66	12	30	72-120	F1 vs
Methyl acetate	109	75.9	70	6	30	55-136	
Methyl tert-butyl ether	54.3	39.8	73	6	30	63-125	vs
Methylcyclohexane	54.3	24.7	45	19	30	60-140	F1
Methylene Chloride	54.3	46.7	86	8	30	61-127	
Styrene	54.3	38.0	70	6	30	80-120	F1
Tetrachloroethene	54.3	34.2	63	12	30	74-122	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: M16314.D

Lab ID: 480-224950-7 MSD Client ID: VP-3 (2-4') MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	54.3	44.5	81	6	30	74-128	vs
trans-1,2-Dichloroethene	54.3	39.6	73	12	30	78-126	F1
trans-1,3-Dichloropropene	54.3	36.8	68	3	30	73-123	F1
Trichloroethene	54.3	38.2	70	12	30	77-129	F1
Trichlorofluoromethane	54.3	39.3	73	17	30	65-146	
Vinyl chloride	54.3	43.3	80	17	30	61-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Lab Sample ID: CCVIS 480-731000/4 Calibration Date: 11/03/2024 18:33

Instrument ID: HP5977M Calib Start Date: 08/12/2024 23:40

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 08/13/2024 02:04

Lab File ID: M16296.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Ave	1.713	1.620	0.1000	47.3	50.0	-5.4	50.0	
Chloromethane	Ave	1.928	2.139	0.1000	55.5	50.0	10.9	20.0	
Vinyl chloride	Ave	1.421	1.570	0.1000	55.2	50.0	10.5	20.0	
Butadiene	Ave	1.543	1.786		57.9	50.0	15.8	20.0	
Bromomethane	Ave	0.8919	0.8573	0.1000	48.1	50.0	-3.9	50.0	
Chloroethane	Ave	0.8672	0.999	0.1000	57.6	50.0	15.2	50.0	
Trichlorofluoromethane	Ave	1.730	1.816	0.1000	52.5	50.0	5.0	20.0	
Dichlorofluoromethane	Ave	2.295	2.415		52.6	50.0	5.2	20.0	
Ethyl ether	Ave	1.187	1.273		53.6	50.0	7.2	20.0	
Acrolein	Ave	0.2021	0.1418		175	250	-29.8	50.0	NT
1,1-Dichloroethene	Ave	0.9599	1.127	0.1000	58.7	50.0	17.4	20.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.118	1.253	0.1000	56.0	50.0	12.0	20.0	
Acetone	Ave	0.5032	0.5260	0.1000	261	250	4.5	50.0	
Iodomethane	Ave	1.937	1.935		49.9	50.0	-0.1	20.0	
Carbon disulfide	Ave	3.385	3.887	0.1000	57.4	50.0	14.9	20.0	
Allyl chloride	Ave	1.971	2.343		59.4	50.0	18.9	20.0	
Methyl acetate	Ave	1.061	1.138	0.1000	107	100	7.2	50.0	
Methylene Chloride	Lin1		1.347	0.1000	50.9	50.0	1.7	20.0	
2-Methyl-2-propanol	Ave	0.1933	0.1551		401	500	-19.8	50.0	
Methyl tert-butyl ether	Ave	3.729	3.447	0.1000	46.2	50.0	-7.6	20.0	
trans-1,2-Dichloroethene	Ave	1.152	1.270	0.1000	55.2	50.0	10.3	20.0	
Acrylonitrile	Ave	0.5498	0.5781		526	500	5.2	20.0	
Hexane	Ave	1.843	2.418		65.6	50.0	31.2*	20.0	NT
1,1-Dichloroethane	Ave	2.176	2.445	0.2000	56.2	50.0	12.4	20.0	
Vinyl acetate	Ave	2.551	2.688		105	100	5.4	20.0	
2,2-Dichloropropane	Ave	1.314	1.260		48.0	50.0	-4.1	20.0	
cis-1,2-Dichloroethene	Ave	1.322	1.374	0.1000	52.0	50.0	3.9	20.0	
2-Butanone (MEK)	Ave	0.6628	0.7296	0.1000	275	250	10.1	20.0	
Chlorobromomethane	Ave	0.6993	0.6667		47.7	50.0	-4.7	20.0	
Tetrahydrofuran	Ave	0.4504	0.4806		107	100	6.7	20.0	
Chloroform	Ave	2.170	2.193	0.2000	50.5	50.0	1.1	20.0	
1,1,1-Trichloroethane	Ave	1.634	1.761	0.1000	53.9	50.0	7.8	20.0	
Cyclohexane	Ave	2.234	2.836	0.1000	63.5	50.0	27.0*	20.0	
Carbon tetrachloride	Ave	1.408	1.462	0.1000	51.9	50.0	3.8	20.0	
1,1-Dichloropropene	Ave	1.432	1.684		58.8	50.0	17.6	20.0	
Benzene	Ave	4.353	4.718	0.5000	54.2	50.0	8.4	20.0	
Isobutyl alcohol	Ave	0.0714	0.0654		1150	1250	-8.3	50.0	
1,2-Dichloroethane	Ave	1.711	1.777	0.1000	51.9	50.0	3.8	20.0	
n-Heptane	Ave	1.792	2.469		68.9	50.0	37.8*	20.0	NT
Trichloroethene	Ave	1.132	1.230	0.2000	54.3	50.0	8.7	20.0	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Lab Sample ID: CCVIS 480-731001/4 Calibration Date: 11/03/2024 18:14

Instrument ID: HP5977R Calib Start Date: 09/22/2024 11:52

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 09/22/2024 14:34

Lab File ID: R0793.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.362	2.443	0.1000	51.7	50.0	3.5	20.0
1,2-Dichloropropane	Ave	1.371	1.305	0.1000	47.6	50.0	-4.8	20.0
Dibromomethane	Ave	0.6678	0.6594	0.1000	49.4	50.0	-1.3	20.0
1,4-Dioxane	Ave	0.0056	0.0083		1470	1000	47.1	50.0
Bromodichloromethane	Ave	1.655	1.520	0.2000	45.9	50.0	-8.2	20.0
2-Chloroethyl vinyl ether	Ave	0.7021	0.6312		45.0	50.0	-10.1	20.0
cis-1,3-Dichloropropene	Ave	1.811	1.572	0.2000	43.4	50.0	-13.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7629	0.9558	0.1000	313	250	25.3*	20.0
Toluene	Ave	1.420	1.418	0.4000	49.9	50.0	-0.2	20.0
trans-1,3-Dichloropropene	Ave	0.7992	0.7572	0.1000	47.4	50.0	-5.3	20.0
Ethyl methacrylate	Ave	0.6370	0.6659		52.3	50.0	4.5	20.0
1,1,2-Trichloroethane	Ave	0.3514	0.3659	0.1000	52.1	50.0	4.1	20.0
Tetrachloroethene	Ave	0.5812	0.5947	0.2000	51.2	50.0	2.3	20.0
1,3-Dichloropropane	Ave	0.7418	0.7384		49.8	50.0	-0.5	20.0
2-Hexanone	Ave	0.4967	0.5736	0.1000	289	250	15.5	20.0
Dibromochloromethane	Ave	0.4938	0.4973	0.1000	50.4	50.0	0.7	20.0
1,2-Dibromoethane	Ave	0.4084	0.4191		51.3	50.0	2.6	20.0
Chlorobenzene	Ave	1.402	1.379	0.5000	49.2	50.0	-1.6	20.0
Ethylbenzene	Ave	2.772	2.855	0.1000	51.5	50.0	3.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5766	0.5931		51.4	50.0	2.9	20.0
m-Xylene & p-Xylene	Ave	1.025	1.067	0.1000	52.1	50.0	4.2	20.0
o-Xylene	Ave	1.031	1.098	0.3000	53.3	50.0	6.6	20.0
Styrene	Ave	1.602	1.561	0.3000	48.7	50.0	-2.5	20.0
Bromoform	Ave	0.3271	0.3134	0.1000	47.9	50.0	-4.2	50.0
Isopropylbenzene	Ave	3.002	3.155	0.1000	52.6	50.0	5.1	20.0
Bromobenzene	Ave	0.7011	0.6581		46.9	50.0	-6.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6826	0.7579	0.3000	55.5	50.0	11.0	20.0
N-Propylbenzene	Ave	3.881	4.013		51.7	50.0	3.4	20.0
1,2,3-Trichloropropane	Ave	0.2245	0.2519		56.1	50.0	12.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3238	0.3336		51.5	50.0	3.1	50.0
2-Chlorotoluene	Ave	0.7037	0.7402		52.6	50.0	5.2	20.0
1,3,5-Trimethylbenzene	Ave	2.866	2.917		50.9	50.0	1.8	20.0
4-Chlorotoluene	Ave	0.6828	0.6655		48.7	50.0	-2.5	20.0
tert-Butylbenzene	Ave	0.5151	0.5514		53.5	50.0	7.1	20.0
1,2,4-Trimethylbenzene	Ave	2.922	3.022		51.7	50.0	3.4	20.0
sec-Butylbenzene	Ave	3.488	3.654		52.4	50.0	4.7	20.0
1,3-Dichlorobenzene	Ave	1.397	1.344	0.6000	48.1	50.0	-3.8	20.0
4-Isopropyltoluene	Ave	3.055	3.170		51.9	50.0	3.8	20.0
1,4-Dichlorobenzene	Ave	1.394	1.377	0.5000	49.4	50.0	-1.2	20.0
n-Butylbenzene	Ave	3.034	3.184		52.5	50.0	4.9	20.0
1,2-Dichlorobenzene	Ave	1.365	1.392	0.4000	51.0	50.0	2.0	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730998/2-A

Matrix: Solid | Lab File ID: M16300.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 11/03/2024 20:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.61
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.39
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.25
78-87-5	1,2-Dichloropropane	5.0	U	5.0	2.5
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.26
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.70
78-93-3	2-Butanone (MEK)	25	U	25	1.8
591-78-6	2-Hexanone	25	U	25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	1.6
67-64-1	Acetone	25	U	25	4.2
71-43-2	Benzene	5.0	U	5.0	0.25
75-27-4	Bromodichloromethane	5.0	U	5.0	0.67
75-25-2	Bromoform	5.0	U	5.0	2.5
74-83-9	Bromomethane	5.0	U	5.0	0.45
75-15-0	Carbon disulfide	5.0	U	5.0	2.5
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.48
108-90-7	Chlorobenzene	5.0	U	5.0	0.66
124-48-1	Dibromochloromethane	5.0	U	5.0	0.64
75-00-3	Chloroethane	5.0	U	5.0	1.1
67-66-3	Chloroform	0.643	J	5.0	0.31
74-87-3	Chloromethane	5.0	U	5.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.72
110-82-7	Cyclohexane	5.0	U	5.0	0.70
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730999/2-A

Matrix: Solid | Lab File ID: R0797.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 11/03/2024 20:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 731001 | Units: ug/Kg

Preparation Batch No.: 730999 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.61
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.39
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.25
78-87-5	1,2-Dichloropropane	5.0	U	5.0	2.5
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.26
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.70
78-93-3	2-Butanone (MEK)	25	U	25	1.8
591-78-6	2-Hexanone	25	U	25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	1.6
67-64-1	Acetone	25	U	25	4.2
71-43-2	Benzene	5.0	U	5.0	0.25
75-27-4	Bromodichloromethane	5.0	U	5.0	0.67
75-25-2	Bromoform	5.0	U	5.0	2.5
74-83-9	Bromomethane	5.0	U	5.0	0.45
75-15-0	Carbon disulfide	5.0	U	5.0	2.5
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.48
108-90-7	Chlorobenzene	5.0	U	5.0	0.66
124-48-1	Dibromochloromethane	5.0	U	5.0	0.64
75-00-3	Chloroethane	5.0	U	5.0	1.1
67-66-3	Chloroform	0.428	J	5.0	0.31
74-87-3	Chloromethane	5.0	U	5.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.72
110-82-7	Cyclohexane	5.0	U	5.0	0.70
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	0.41

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Lab Sample ID: CCVIS 480-730591/3 Calibration Date: 10/31/2024 10:40

Instrument ID: HP5973X Calib Start Date: 10/10/2024 14:18

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/10/2024 17:13

Lab File ID: X00000033931.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin2		0.6652	0.0100	48400	40000	20.9*	20.0
N-Nitrosodimethylamine	Ave	0.8501	0.9938	0.0100	46800	40000	16.9	50.0
Pyridine	Lin2		0.7552	0.0100	91300	80000	14.2	50.0
Benzaldehyde	Ave	0.9332	0.8456	0.0100	36200	40000	-9.4	50.0
Aniline	Ave	1.916	1.973	0.0100	41200	40000	3.0	20.0
Phenol	Ave	1.694	1.899	0.8000	44800	40000	12.1	20.0
Bis(2-chloroethyl)ether	Ave	1.261	1.384	0.7000	43900	40000	9.8	20.0
2-Chlorophenol	Ave	1.301	1.400	0.8000	43000	40000	7.6	20.0
n-Decane	Ave	1.260	1.492	0.0100	47400	40000	18.4	20.0
1,3-Dichlorobenzene	Ave	1.508	1.553	0.0100	41200	40000	3.0	20.0
1,4-Dichlorobenzene	Ave	1.533	1.589	0.0100	41500	40000	3.7	20.0
Benzyl alcohol	Lin2		0.8872	0.0100	41900	40000	4.8	20.0
1,2-Dichlorobenzene	Ave	1.439	1.429	0.0100	39700	40000	-0.7	20.0
Indene	Ave	0.6008	0.6460	0.0100	258000	240000	7.5	20.0
2-Methylphenol	Lin2		1.262	0.7000	42500	40000	6.1	20.0
bis (2-chloroisopropyl) ether	Ave	1.594	1.861	0.0100	46700	40000	16.8	20.0
Acetophenone	Ave	1.669	1.840	0.0100	44100	40000	10.2	20.0
N-Nitrosodi-n-propylamine	Lin2		0.9928	0.5000	45200	40000	13.0	20.0
4-Methylphenol	Lin2		1.340	0.6000	42800	40000	7.0	20.0
Hexachloroethane	Ave	0.5815	0.6044	0.3000	41600	40000	3.9	20.0
Nitrobenzene	Ave	0.3568	0.4001	0.2000	44900	40000	12.1	20.0
Isophorone	Lin2		0.7107	0.4000	44300	40000	10.8	20.0
2-Nitrophenol	Lin2		0.1983	0.1000	41500	40000	3.7	20.0
2,4-Dimethylphenol	Lin2		0.3574	0.2000	42500	40000	6.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.3940	0.4251	0.3000	43200	40000	7.9	20.0
2,4-Dichlorophenol	Ave	0.2884	0.2928	0.2000	40600	40000	1.5	20.0
Benzoic acid	Lin1		0.2669	0.0100	254000	240000	5.9	50.0
1,2,4-Trichlorobenzene	Ave	0.3226	0.3190	0.0100	39600	40000	-1.1	20.0
Naphthalene	Ave	1.057	1.069	0.7000	40500	40000	1.1	20.0
4-Chloroaniline	Lin2		0.4383	0.0100	40300	40000	0.8	20.0
2,6-Dichlorophenol	Lin2		0.2936	0.0100	40000	40000	-0.0	20.0
Hexachlorobutadiene	Ave	0.1924	0.1910	0.0100	39700	40000	-0.7	20.0
Caprolactam	Lin2		0.1128	0.0100	42500	40000	6.3	50.0
4-Chloro-3-methylphenol	Lin2		0.2906	0.2000	42000	40000	4.9	20.0
2-Methylnaphthalene	Ave	0.6164	0.6352	0.4000	41200	40000	3.1	20.0
1-Methylnaphthalene	Ave	0.6377	0.6424	0.0100	40300	40000	0.7	20.0
Hexachlorocyclopentadiene	Lin2		0.3582	0.0500	40800	40000	1.9	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5490	0.5544	0.0100	40400	40000	1.0	20.0
2,4,6-Trichlorophenol	Lin2		0.3805	0.2000	42400	40000	5.9	20.0
2,4,5-Trichlorophenol	Lin2		0.3850	0.2000	39400	40000	-1.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Lab Sample ID: CCVIS 480-730591/3 | Calibration Date: 10/31/2024 10:40

Instrument ID: HP5973X | Calib Start Date: 10/10/2024 14:18

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 17:13

Lab File ID: X00000033931.d | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.424	1.492	0.0100	41900	40000	4.8	20.0
2-Chloronaphthalene	Ave	1.129	1.159	0.8000	41100	40000	2.7	20.0
2-Nitroaniline	Ave	0.2912	0.3591	0.0100	49300	40000	23.3*	20.0
Dimethyl phthalate	Ave	1.240	1.343	0.0100	43300	40000	8.3	20.0
1,3-Dinitrobenzene	Lin2		0.1220	0.0100	40200	40000	0.5	20.0
2,6-Dinitrotoluene	Lin2		0.3074	0.2000	41200	40000	3.0	20.0
Acenaphthylene	Ave	1.732	1.838	0.9000	42400	40000	6.1	20.0
3-Nitroaniline	Lin2		0.3515	0.0100	42300	40000	5.6	20.0
Acenaphthene	Ave	1.160	1.193	0.9000	41100	40000	2.8	20.0
2,4-Dinitrophenol	Lin2		0.1506	0.0100	78100	80000	-2.3	20.0
4-Nitrophenol	Lin2		0.1829	0.0100	87300	80000	9.1	20.0
Dibenzofuran	Ave	1.603	1.617	0.8000	40300	40000	0.9	20.0
2,4-Dinitrotoluene	Lin2		0.4270	0.2000	42500	40000	6.3	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.3110	0.0100	42700	40000	6.8	20.0
Diethyl phthalate	Ave	1.219	1.329	0.0100	43600	40000	9.1	20.0
Hexadecane	Lin2		0.8249	0.0100	46300	40000	15.7	20.0
Fluorene	Ave	1.298	1.326	0.9000	40800	40000	2.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.6376	0.6604	0.4000	41400	40000	3.6	20.0
4-Nitroaniline	Lin2		0.3188	0.0100	38700	40000	-3.4	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1429	0.0100	87800	80000	9.7	20.0
Diphenylamine	Ave	0.6101	0.6427	0.0100	36000	34200	5.3	20.0
N-Nitrosodiphenylamine	Ave	0.5217	0.5495	0.0100	42100	40000	5.3	20.0
1,2-Diphenylhydrazine	Ave	0.7013	0.7944	0.0100	45300	40000	13.3	20.0
trans-Azobenzene	Ave	0.7013	0.7944	0.0100	45300	40000	13.3	20.0
4-Bromophenyl phenyl ether	Ave	0.2076	0.2206	0.1000	42500	40000	6.3	20.0
Hexachlorobenzene	Ave	0.2389	0.2504	0.1000	41900	40000	4.8	20.0
Atrazine	Lin2		0.3770	0.0100	43600	40000	8.9	20.0
Pentachlorophenol	Lin2		0.1434	0.0500	86100	80000	7.6	50.0
n-Octadecane	Lin2		0.4743	0.0100	46500	40000	16.2	20.0
Phenanthrene	Lin2		1.065	0.7000	40700	40000	1.9	20.0
Anthracene	Ave	1.073	1.098	0.7000	41000	40000	2.4	20.0
Carbazole	Ave	0.9349	0.9085	0.0100	38900	40000	-2.8	20.0
Di-n-butyl phthalate	Lin2		1.253	0.0100	44000	40000	9.9	20.0
Fluoranthene	Ave	1.095	1.151	0.6000	42100	40000	5.1	20.0
Benzidine	Lin2		0.8927	0.0100	79100	80000	-1.1	50.0
Pyrene	Ave	1.271	1.289	0.6000	40600	40000	1.4	20.0
Butyl benzyl phthalate	Lin2		0.6114	0.0100	44000	40000	9.9	20.0
3,3'-Dichlorobenzidine	Lin2		0.6235	0.0100	84400	80000	5.5	50.0
Benzo[a]anthracene	Lin2		1.263	0.8000	40800	40000	1.9	20.0
Chrysene	Lin2		1.197	0.7000	39700	40000	-0.7	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.9000	0.0100	43900	40000	9.8	20.0

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Client Sample ID: BH-10 (2-4') Lab Sample ID: 480-224950-1

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 11/01/2024 11:31 Date Analyzed (2): 11/01/2024 11:31

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.58	2.56	2.62	4.3		14.1
	2		3.11	3.10	3.16	3.8		
delta-BHC	1		3.00	2.99	3.05	7.6		49.4
	2		3.79	3.78	3.84	4.6		
4,4'-DDT	1		5.20	5.18	5.24	10		13.5
	2		6.24	6.22	6.28	12		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 (2-4') Lab Sample ID: 480-224950-2

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 11/01/2024 11:51 Date Analyzed (2): 11/01/2024 11:51

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
4,4'-DDT	1		5.20	5.18	5.24	5.7		36.3
	2		6.24	6.22	6.28	8.2		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-4 QA/QC (2-4') Lab Sample ID: 480-224950-3

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 11/01/2024 12:11 Date Analyzed (2): 11/01/2024 12:11

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
4,4'-DDT	1		5.20	5.18	5.24	6.0		36.5
	2		6.24	6.22	6.28	8.7		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-1 (2-4') Lab Sample ID: 480-224950-5

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 11/01/2024 10:52 Date Analyzed (2): 11/01/2024 10:52

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
delta-BHC	1		3.00	2.99	3.05	3.5		52.8
	2		3.78	3.78	3.84	2.0		
4,4'-DDT	1		5.18	5.18	5.24	4.4		27.2
	2		6.25	6.22	6.28	5.8		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Client Sample ID: VP-3 (2-4') Lab Sample ID: 480-224950-7

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 11/01/2024 11:12 Date Analyzed (2): 11/01/2024 11:12

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
4,4'-DDT	1		5.20	5.18	5.24	30		30.7
	2		6.24	6.22	6.28	40		

FORM X 8081B

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730565/1-A

Matrix: Solid | Lab File ID: 25_84-371.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 10/31/2024 06:36

Sample wt/vol: 30(g) | Date Analyzed: 11/01/2024 08:54

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730754 | Units: ug/Kg

Preparation Batch No.: 730565 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	1.7	U	1.7	0.32
72-55-9	4,4'-DDE	1.7	U	1.7	0.35
50-29-3	4,4'-DDT	0.733	J	1.7	0.39
309-00-2	Aldrin	1.7	U	1.7	0.41
319-84-6	alpha-BHC	1.7	U	1.7	0.30
319-85-7	beta-BHC	1.7	U	1.7	0.30
5103-71-9	Chlordane (.alpha.)	1.7	U	1.7	0.83
319-86-8	delta-BHC	1.7	U	1.7	0.31
60-57-1	Dieldrin	1.7	U	1.7	0.40
959-98-8	Endosulfan I	1.7	U	1.7	0.32
33213-65-9	Endosulfan II	1.7	U	1.7	0.30
1031-07-8	Endosulfan sulfate	1.7	U	1.7	0.31
72-20-8	Endrin	1.7	U	1.7	0.33
76-44-8	Heptachlor	1.7	U	1.7	0.36
58-89-9	Lindane	1.7	U	1.7	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	78		45-120
877-09-8	Tetrachloro-m-xylene	63		30-124

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 480-224950-1

SDG No.:

Lab Sample ID: CCVL 240-633665/2 Calibration Date: 11/02/2024 13:37

Instrument ID: LCMS03 Calib Start Date: 10/28/2024 09:35

GC Column: ID: Calib End Date: 10/28/2024 11:30

Lab File ID: rush_samples2.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8859	1.076		0.243	0.200	21.5	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.241	1.356		0.109	0.100	9.3	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0609	0.0635		0.261	0.250	4.3	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.688	2.002		0.119	0.100	18.6	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	1.697	1.963		0.116	0.100	15.6	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.018	3.558		0.220	0.187	17.9	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.5256	0.6121		0.116	0.100	16.5	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.7926	0.9924		0.0626	0.0500	25.2	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9849	1.142		0.0512	0.0442	15.9	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1026	0.1186		1.45	1.25	15.6	30.0
FBSA	AveID	0.6125	0.7321		0.239	0.200	19.5	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	0.9946	1.193		0.240	0.200	19.9	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.584	3.239		0.112	0.0890	25.4	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9926	1.184		0.0596	0.0500	19.3	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.173	1.457		0.0583	0.0469	24.2	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.010	3.441		0.215	0.188	14.3	30.0
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	AveID	3.110	3.595		0.219	0.190	15.6	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.8035	0.9346		0.0582	0.0500	16.3	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.0864	0.0985		1.43	1.25	14.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	0.7812	0.9848		0.0574	0.0455	26.1	30.0
Perfluorononanoic acid (PFNA)	AveID	0.6862	0.7491		0.0546	0.0500	9.2	30.0
PFECHS	AveID	2.072	2.472		0.110	0.0922	19.3	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	2.878	3.505		0.233	0.192	21.8	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	0.8323	1.133		0.0648	0.0476	36.1*	30.0
FHxSA	AveID	0.7250	0.7887		0.218	0.200	8.8	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	1.006	1.230		0.0611	0.0500	22.3	30.0
Perfluorodecanoic acid (PFDA)	AveID	0.9092	1.039		0.0571	0.0500	14.3	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.7667	0.8343		0.0544	0.0500	8.8	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	0.9265	1.289		0.0645	0.0464	39.1*	30.0

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FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 480-224950-1

SDG No.:

Lab Sample ID: CCVL 240-633665/2 Calibration Date: 11/02/2024 13:37

Instrument ID: LCMS03 Calib Start Date: 10/28/2024 09:35

GC Column: ID: Calib End Date: 10/28/2024 11:30

Lab File ID: rush_samples2.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoroundecanoic acid (PFUnA)	AveID	0.8313	0.8780		0.0528	0.0500	5.6	30.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.720	3.268		0.224	0.186	20.1	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9844	1.308		0.0638	0.0480	32.9*	30.0
Perfluorododecanoic acid (PFDoA)	AveID	1.014	0.9578		0.0472	0.0500	-5.6	30.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9219	1.185		0.0643	0.0500	28.5	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.253	1.641		0.0631	0.0482	30.9*	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	1.219	1.302		0.0534	0.0500	6.8	30.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	3.348	3.893		0.219	0.188	16.3	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	1.262	1.240		0.0491	0.0500	-1.7	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.155	1.342		0.0562	0.0484	16.2	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	0.1179	0.1269		0.538	0.500	7.6	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	0.9456	1.061		0.0561	0.0500	12.2	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	0.0983	0.1213		0.617	0.500	23.4	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.9128	1.147		0.0628	0.0500	25.6	30.0
13C4 PFBA	Ave	0.8624	0.7437		2.16	2.50	-13.8	30.0
13C5 PFPeA	Ave	0.5702	0.4880		1.07	1.25	-14.4	30.0
M2-4:2 FTS	Ave	0.0924	0.0992		1.25	1.17	7.3	30.0
13C5 PFHxA	Ave	1.225	0.9864		0.503	0.625	-19.5	30.0
13C3 PFBS	Ave	1.405	1.312		0.542	0.581	-6.7	30.0
13C3 HFPO-DA	Ave	0.5472	0.4756		2.17	2.50	-13.1	30.0
13C4 PFHpA	Ave	1.087	0.9359		0.538	0.625	-13.9	30.0
M2-6:2 FTS	Ave	0.0598	0.0628		1.25	1.19	5.1	30.0
13C8 PFOA	Ave	5.471	4.703		0.537	0.625	-14.0	30.0
13C3 PFHxS	Ave	1.067	1.021		0.566	0.591	-4.3	30.0
13C9 PFNA	Ave	1.053	0.9864		0.293	0.313	-6.3	30.0
M2-8:2 FTS	Ave	0.0552	0.0580		1.26	1.20	5.0	30.0
d3-NMeFOSAA	Ave	0.3940	0.3966		1.26	1.25	0.6	30.0
13C6 PFDA	Ave	1.112	1.103		0.310	0.313	-0.8	30.0
d5-NEtFOSAA	Ave	0.3664	0.3571		1.22	1.25	-2.5	30.0
13C8 PFOS	Ave	1.258	1.132		0.538	0.598	-10.0	30.0
13C7 PFUnA	Ave	1.354	1.430		0.330	0.313	5.7	30.0
13C2-PFDoDA	Ave	1.111	1.355		0.381	0.313	21.9	30.0
13C8 PFOSA	Ave	0.9139	0.8118		0.555	0.625	-11.2	30.0

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: VP-1 (2-4') MS Lab ID: 480-224950-5 MS

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 91.2

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	2515		3480		1120	-86	75-125	F1	6010C
Antimony	79.10		16.2	U	110	72	75-125	F1	6010C
Arsenic	2.2	U	2.3		220	0	75-125	F1	6010C
Barium	19.46		44.0		220	-11	75-125	F1	6010C
Beryllium	0.0936	J	0.15	J	110	-0.05	75-125	F1	6010C
Cadmium	0.512		0.65		110	-0.1	75-125	F1	6010C
Calcium	160100		131000		5500	537	75-125	4	6010C
Chromium	2.64		4.6		110	-2	75-125	F1	6010C
Cobalt	0.747		1.9		110	-1	75-125	F1	6010C
Copper	27.74		37.3		110	-9	75-125	F1	6010C
Iron	3172		4740		1120	-140	75-125	4	6010C
Lead	29.45		68.9		110	-36	75-125	F1	6010C
Magnesium	99300		68800		5500	554	75-125	4	6010C
Manganese	356.0		378		110	-20	75-125	F1	6010C
Nickel	2.06	J	4.1	J	110	-2	75-125	F1	6010C
Potassium	5063		943		5500	75	75-125		6010C
Selenium	4.4	U	4.3	U	220	0	75-125	F1	6010C
Silver	8.34		0.65	U	11.0	76	75-125		6010C
Sodium	4819		186		5500	84	75-125		6010C
Thallium	6.6	U	6.5	U	220	0	75-125	F1	6010C
Vanadium	3.63		7.5		110	-4	75-125	F1	6010C
Zinc	134.7		205		110	-63	75-125	F1	6010C
Mercury	0.540		0.12		0.384	109	80-120		7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: VP-3 (2-4') MS Lab ID: 480-224950-7 MS

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 91.4

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	5911		9050		1150	-273	75-125	4	6010C
Antimony	42.75		17.2	U	113	38	75-125	F1	6010C
Arsenic	160.5		4.0		225	69	75-125	F1	6010C
Barium	333.0		136		225	87	75-125		6010C
Beryllium	56.43		0.36		113	50	75-125	F1	6010C
Cadmium	60.11		0.56		113	53	75-125	F1	6010C
Calcium	63160		108000		5640	-789	75-125	4	6010C
Chromium	63.13		12.3		113	45	75-125	F1	6010C
Cobalt	64.80		4.3		113	54	75-125	F1	6010C
Copper	334.6		21.5		113	278	75-125	F1	6010C
Iron	25360		12200		1150	1146	75-125	4	6010C
Lead	1111		176		113	830	75-125	F1	6010C
Magnesium	26890		45500		5640	-330	75-125	4	6010C
Manganese	407.9		461		113	-47	75-125	4	6010C
Nickel	68.01		9.8		113	52	75-125	F1	6010C
Potassium	4527		2300		5640	40	75-125	F1	6010C
Selenium	159.5		4.6	U	225	71	75-125	F1	6010C
Silver	6.02		0.69	U	11.3	53	75-125	F1	6010C
Sodium	3368		547		5640	50	75-125	F1	6010C
Thallium	191.2		6.9	U	225	85	75-125		6010C
Vanadium	67.74		16.9		113	45	75-125	F1	6010C
Zinc	396.6		177		113	195	75-125	F1	6010C
Mercury	4.42		4.5		0.382	-27	80-120	4	7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: VP-1 (2-4') MSD | Lab ID: 480-224950-5 MSD

Lab Name: Eurofins Buffalo | Job No.: 480-224950-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 91.2

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	2815		1130	-59	75-125	11	20	F1	6010C
Antimony	73.40		111	66	75-125	7	20	F1	6010C
Arsenic	1.23	J	221	-0.5	75-125	NC	20	F1	6010C
Barium	19.32		221	-11	75-125	1	20	F1	6010C
Beryllium	0.105	J	111	-0.04	75-125	11	20	F1	6010C
Cadmium	0.466		111	-0.2	75-125	9	20	F1	6010C
Calcium	149100		5530	335	75-125	7	20	4	6010C
Chromium	2.85		111	-2	75-125	8	20	F1	6010C
Cobalt	0.834		111	-0.9	75-125	11	20	F1	6010C
Copper	21.19		111	-15	75-125	27	20	F1 F2	6010C
Iron	3384		1130	-120	75-125	6	20	4	6010C
Lead	35.34		111	-30	75-125	18	20	F1	6010C
Magnesium	92640		5530	431	75-125	7	20	4	6010C
Manganese	336.1		111	-38	75-125	6	20	F1	6010C
Nickel	2.20	J	111	-2	75-125	7	20	F1	6010C
Potassium	5095		5530	75	75-125	1	20		6010C
Selenium	4.4	U	221	0	75-125	NC	20	F1	6010C
Silver	8.07		11.1	73	75-125	3	20	F1	6010C
Sodium	4746		5530	83	75-125	2	20		6010C
Thallium	6.6	U	221	0	75-125	NC	20	F1	6010C
Vanadium	4.09		111	-3	75-125	12	20	F1	6010C
Zinc	144.2		111	-55	75-125	7	20	F1	6010C
Mercury	0.529		0.373	109	80-120	2	20		7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: VP-3 (2-4') MSD Lab ID: 480-224950-7 MSD

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 91.4

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	5479		1180	-303	75-125	8	20	4	6010C
Antimony	62.51		116	54	75-125	38	20	F1 F2	6010C
Arsenic	188.2		231	80	75-125	16	20		6010C
Barium	240.7		231	45	75-125	32	20	F1 F2	6010C
Beryllium	73.97		116	64	75-125	27	20	F1 F2	6010C
Cadmium	80.20		116	69	75-125	29	20	F1 F2	6010C
Calcium	115700		5780	140	75-125	59	20	4 F2	6010C
Chromium	87.54		116	65	75-125	32	20	F1 F2	6010C
Cobalt	86.32		116	71	75-125	28	20	F1 F2	6010C
Copper	115.0		116	81	75-125	98	20	F2	6010C
Iron	19810		1180	646	75-125	25	20	4 F2	6010C
Lead	289.2		116	98	75-125	117	20	F2	6010C
Magnesium	48280		5780	48	75-125	57	20	E 4 F2	6010C
Manganese	627.8		116	145	75-125	42	20	F1 F2	6010C
Nickel	92.16		116	71	75-125	30	20	F1 F2	6010C
Potassium	5661		5780	58	75-125	22	20	F1 F2	6010C
Selenium	177.1		231	77	75-125	10	20		6010C
Silver	7.90		11.6	68	75-125	27	20	F1 F2	6010C
Sodium	4491		5780	68	75-125	29	20	F1 F2	6010C
Thallium	206.7		231	89	75-125	8	20		6010C
Vanadium	97.00		116	69	75-125	36	20	F1 F2	6010C
Zinc	264.0		116	75	75-125	40	20	F2	6010C
Mercury	5.19		0.351	191	80-120	16	20	4	7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-224950-5

SDG No:

Lab Name: Eurofins Buffalo Job No: 480-224950-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	3700		4733		28	V	6010C
Antimony	81.1	U	81.1	U	NC		6010C
Arsenic	2.3		10.8	U	NC		6010C
Barium	47.9		60.91		27	V	6010C
Beryllium	1.1	U	0.223	J	NC		6010C
Cadmium	0.65	J	0.876	J	NC		6010C
Calcium	131000		146200		12	V	6010C
Chromium	5.3		6.62		NC		6010C
Cobalt	2.0	J	2.52	J	NC		6010C
Copper	35.3		44.88		27	V	6010C
Iron	5420		6724		24	V	6010C
Lead	70.2		89.83		28	V	6010C
Magnesium	68800		72760		5.7		6010C
Manganese	429		540.7		26	V	6010C
Nickel	4.6	J	5.52	J	NC		6010C
Potassium	982		1261		28	V	6010C
Selenium	4.3	U	21.6	U	NC		6010C
Silver	3.2	U	3.2	U	NC		6010C
Sodium	757	U	757	U	NC		6010C
Thallium	6.5	U	32.4	U	NC		6010C
Vanadium	8.2		10.35		27	V	6010C
Zinc	248		309.4		25	V	6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 731288	Date: 11/05/2024 17:46		Prep Batch: 731281		Date: 11/05/2024 14:00						
9012B	480-224950-5	Cyanide, Total	1.1	U	mg/Kg						F1
9012B	480-224950-5 MS	Cyanide, Total	1.1	U	mg/Kg	1.28	0	85-115			F1
Batch ID: 731288	Date: 11/05/2024 17:58		Prep Batch: 731281		Date: 11/05/2024 14:00						
9012B	480-224950-7	Cyanide, Total	0.99	U	mg/Kg						F1
9012B	480-224950-7 MS	Cyanide, Total	1.1	U	mg/Kg	1.28	0	85-115			F1

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224950-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 731288	Date: 11/05/2024 17:47		Prep Batch: 731281			Date: 11/05/2024 14:00					
9012B	480-224950-5 MSD	Cyanide, Total	1.1	U	mg/Kg	1.29	0	85-115	NC	15	F1
Batch ID: 731288	Date: 11/05/2024 17:58		Prep Batch: 731281			Date: 11/05/2024 14:00					
9012B	480-224950-7 MSD	Cyanide, Total	1.0	U	mg/Kg	1.25	0	85-115	NC	15	F1

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM V-IN

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

The NEST Site
333 1st Street
Niagara Falls, NY 14303
BCP Site # C932183

SDG: **J224998-1**
4 water samples

Prepared for:

BE3 Corp.
960 Busti Avenue
Suite 150-B
Buffalo, NY 14213
Attention: Jacob Cox

December 2024

EDU *Environmental Data Usability* *10028 Deer Park Dr. Dansville, NY 14437* *585-991-9156*

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REVIEWER'S NARRATIVE
BE3 SDG J224998-1: The NEST Site – Niagara Falls, NY

The data associated with this Sample Delivery Group (SDG) J224998-1, analyzed by Eurofins Buffalo, Buffalo, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/17/2024

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	The NEST Site 333 1st Street Niagara Falls, NY 14303 BCP Site #: C932183
SAMPLING DATE:	October 30, 2024
SAMPLE TYPE:	4 water samples
LABORATORY:	Eurofins Buffalo Buffalo, NY
SDG No.:	J224998-1

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 4 water samples collected on October 30, 2024. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), 1,4-Dioxane, Pesticides, PCBs, Herbicides, PFASs, Metals, TCN, and Hexavalent Chromium (Cr+6).

All analyses were performed by Eurofins Buffalo, Buffalo, NY and analyzed as SDG J224998-1. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-9. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG J224998-1, four samples were analyzed and results were reported for 848 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have rejected/qualified and the corresponding QC reasons.

Table 6-1 8260 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
RI MW-3 RI MW-3 DUP	Carbon tetrachloroethene Tetrachloroethene	J detects	MS/MSD rec > QC limit	Data are estimated
RI MW-3	Trichlorofluoromethane Carbon tetrachloride	J detects UJ non-detects	CCV % D > QC limit	Data are estimated
RI MW-3 DUP RI MW-1 RI MW-2	2-Hexanone	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-2 8270 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
RI MW-3 RI MW-3 DUP RI MW-1 RI MW-2	Pentachlorophenol	J detects UJ non-detects	ICAL % RSD > 20 % and CCV % D > QC limit	Data are estimated
RI MW-3 RI MW-3 DUP RI MW-1 RI MW-2	Hexachlorocyclopentadiene 2-Nitroaniline 4-Nitrophenol Bis(2-ethylhexyl)phthalate	J detects UJ non-detects	CCV % D > QC limit	Data are estimated
RI MW-3	Hexachlorobenzene	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-3 1,4-Dioxane

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-4 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
RI MW-1	4,4'-DDE	J detects	% D for 2nd column confirmation > 25 %	Data are estimated
RI MW-3 RI MW-3 DUP RI MW-1 RI MW-2	4,4'-DDT	CRQL-U	Analyte detected in method blank	Data changed to non-detect
RI MW-1	d-BHC	CRQL-U	Analyte detected in method blank	Data changed to non-detect
RI MW-3 RI MW-1 RI MW-2	Endosulfen II	CRQL-U	Analyte detected in method blank	Data changed to non-detect
RI MW-2	Lindane	CRQL-U	Analyte detected in method blank	Data changed to non-detect

Table 6-5 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 Herbicides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-8 Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
RI MW-3 RI MW-3 DUP	Mn	CRQL-U	Analyte detected in method blank	Data changed to non-detect
RI MW-3	Zn	J detects	MS/MSD rec > QC limit	Data are estimated

Table 6-9 TCN and Cr+6

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo NY 14213

Generated 11/11/2024 5:29 PM

JOB DESCRIPTION

The Nest Site Analysis - GW

JOB NUMBER

480-224998-1

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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Job Narrative
480-224998-1

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 10/30/2024 3:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.2º C, 2.8º C, 3.0º C and 3.3º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-730795 recovered above the upper control limit for 2-Hexanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-730914 recovered above the upper control limit for Carbon tetrachloride and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: RI MW-3 (480-224998-1).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-730914 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 samples are impacted: RI MW-3 (480-224998-1[MS]) and RI MW-3 (480-224998-1[MSD])

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 480-730787 recovered outside acceptance criteria, low biased, for Hexachlorobenzene and Hexachlorocyclopentadiene. 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 following associated sample is impacted: RI MW-3 (480-224998-1).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730787 recovered above the upper control limit for bis (2-chloroisopropyl) ether, 2-Nitroaniline, 4-Nitrophenol and Bis(2-ethylhexyl) phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: RI MW-3 (480-224998-1).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-731032 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. 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 following associated samples are impacted: RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-731032 recovered above the upper control limit for bis (2-chloroisopropyl) ether, 2-Nitroaniline, 4-Nitrophenol and Bis(2-ethylhexyl) phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4).

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

GC Semi VOA
Method 8081B: The method blank for preparation batch 480-731202 and analytical batch 480-731303 contained 4,4'-DDT, delta-BHC, Endosulfan II and Lindane 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 affected: RI MW-3 (480-224998-1), RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4).

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

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

LCMS
Method 1633: Dilution performed due to high amount of particulate matter per analyst visual inspection. Aliquot taken. Laboratory proceeded with analysis.

RI MW-2 (480-224998-4)

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

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

Organic Prep
Method 3510C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: RI MW-3 (480-224998-1), RI MW-3 (480-224998-1[MS]), RI MW-3 (480-224998-1[MSD]), RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4).

Method 3510C: After solvent exchange, the color of the extract changed while concentrating due to some kind of reaction with the vapors from 225074-1.

RI MW-3 (480-224998-1), RI MW-3 (480-224998-1[MS]), RI MW-3 (480-224998-1[MSD]), RI MW-3 DUP (480-224998-2), RI MW-1 (480-224998-3) and RI MW-2 (480-224998-4)

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-224998-1
Project/Site: The Nest Site Analysis - GW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224998-1	RI MW-3	Water	10/30/24 09:30	10/30/24 15:55
480-224998-2	RI MW-3 DUP	Water	10/30/24 10:30	10/30/24 15:55
480-224998-3	RI MW-1	Water	10/30/24 13:00	10/30/24 15:55
480-224998-4	RI MW-2	Water	10/30/24 14:00	10/30/24 15:55

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: D8690.d

Analysis Method: 8260C | Date Collected: 10/30/2024 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 11/02/2024 18:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730914 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	1.0	U F1	1.0	0.82	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79	
107-06-2	1,2-Dichloroethane	1.0	U F1	1.0	0.21	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72	
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84	
78-93-3	2-Butanone (MEK)	10	U	10	1.3	
591-78-6	2-Hexanone	5.0	U	5.0	1.2	
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.31	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	
67-64-1	Acetone	10	U	10	3.0	
71-43-2	Benzene	1.0	U	1.0	0.41	
75-25-2	Bromoform	1.0	U	1.0	0.26	
74-83-9	Bromomethane	1.0	U	1.0	0.69	
75-15-0	Carbon disulfide	1.0	U	1.0	0.19	
56-23-5	Carbon tetrachloride	1.0	U F1	1.0	0.27	UJ
108-90-7	Chlorobenzene	1.0	U	1.0	0.75	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.32	
67-66-3	Chloroform	2.3		1.0	0.34	
74-87-3	Chloromethane	1.0	U	1.0	0.35	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81	
110-82-7	Cyclohexane	1.0	U	1.0	0.18	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: D8690.d

Analysis Method: 8260C | Date Collected: 10/30/2024 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 11/02/2024 18:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730914 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-27-4	Bromodichloromethane	1.0	U F1	1.0	0.39	
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68	
100-41-4	Ethylbenzene	1.0	U	1.0	0.74	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73	
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79	
79-20-9	Methyl acetate	2.5	U	2.5	1.3	
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16	
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16	
75-09-2	Methylene Chloride	1.0	U	1.0	0.44	
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66	
91-20-3	Naphthalene	1.0	U	1.0	0.43	
104-51-8	n-Butylbenzene	1.0	U	1.0	0.64	
103-65-1	N-Propylbenzene	1.0	U	1.0	0.69	
95-47-6	o-Xylene	1.0	U	1.0	0.76	
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.75	
127-18-4	Tetrachloroethene	12	F1	1.0	0.36	J
108-88-3	Toluene	1.0	U	1.0	0.51	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37	
79-01-6	Trichloroethene	3.5		1.0	0.46	
75-69-4	Trichlorofluoromethane	1.0	U F1	1.0	0.88	UJ
75-01-4	Vinyl chloride	1.0	U	1.0	0.90	
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36	
100-42-5	Styrene	1.0	U	1.0	0.73	
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.81	

MKP 12/17/2024

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: D8690.d

Analysis Method: 8260C | Date Collected: 10/30/2024 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 11/02/2024 18:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730914 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		77-120
460-00-4	4-Bromofluorobenzene (Surr)	114		73-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	118		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: D8690.d

Analysis Method: 8260C | Date Collected: 10/30/2024 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 11/02/2024 18:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730914 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: S3717.d

Analysis Method: 8260C | Date Collected: 10/30/2024 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 14:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72	
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84	
78-93-3	2-Butanone (MEK)	10	U	10	1.3	
591-78-6	2-Hexanone	5.0	U	5.0	1.2	UJ
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.31	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	
67-64-1	Acetone	10	U	10	3.0	
71-43-2	Benzene	1.0	U	1.0	0.41	
75-25-2	Bromoform	1.0	U	1.0	0.26	
74-83-9	Bromomethane	1.0	U	1.0	0.69	
75-15-0	Carbon disulfide	1.0	U	1.0	0.19	
56-23-5	Carbon tetrachloride	0.29	J	1.0	0.27	J
108-90-7	Chlorobenzene	1.0	U	1.0	0.75	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.32	
67-66-3	Chloroform	1.9		1.0	0.34	
74-87-3	Chloromethane	1.0	U	1.0	0.35	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81	
110-82-7	Cyclohexane	1.0	U	1.0	0.18	

MKP 12/17/2024

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: S3717.d

Analysis Method: 8260C | Date Collected: 10/30/2024 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 14:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39	
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68	
100-41-4	Ethylbenzene	1.0	U	1.0	0.74	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73	
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79	
79-20-9	Methyl acetate	2.5	U	2.5	1.3	
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16	
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16	
75-09-2	Methylene Chloride	1.0	U	1.0	0.44	
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66	
91-20-3	Naphthalene	1.0	U	1.0	0.43	
104-51-8	n-Butylbenzene	1.0	U	1.0	0.64	
103-65-1	N-Propylbenzene	1.0	U	1.0	0.69	
95-47-6	o-Xylene	1.0	U	1.0	0.76	
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.75	
127-18-4	Tetrachloroethene	11		1.0	0.36	J
108-88-3	Toluene	1.0	U	1.0	0.51	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37	
79-01-6	Trichloroethene	3.2		1.0	0.46	
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88	
75-01-4	Vinyl chloride	1.0	U	1.0	0.90	
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36	
100-42-5	Styrene	1.0	U	1.0	0.73	
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.81	

MKP 12/17/2024

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: S3717.d

Analysis Method: 8260C | Date Collected: 10/30/2024 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 14:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: S3717.d

Analysis Method: 8260C | Date Collected: 10/30/2024 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 14:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: S3718.d

Analysis Method: 8260C | Date Collected: 10/30/2024 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 14:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72	
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84	
78-93-3	2-Butanone (MEK)	10	U	10	1.3	
591-78-6	2-Hexanone	5.0	U	5.0	1.2	UJ
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.31	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	
67-64-1	Acetone	10	U	10	3.0	
71-43-2	Benzene	1.0	U	1.0	0.41	
75-25-2	Bromoform	1.0	U	1.0	0.26	
74-83-9	Bromomethane	1.0	U	1.0	0.69	
75-15-0	Carbon disulfide	1.0	U	1.0	0.19	
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27	
108-90-7	Chlorobenzene	1.0	U	1.0	0.75	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.32	
67-66-3	Chloroform	1.9		1.0	0.34	
74-87-3	Chloromethane	1.0	U	1.0	0.35	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81	
110-82-7	Cyclohexane	1.0	U	1.0	0.18	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: S3718.d

Analysis Method: 8260C | Date Collected: 10/30/2024 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 14:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
91-20-3	Naphthalene	1.0	U	1.0	0.43
104-51-8	n-Butylbenzene	1.0	U	1.0	0.64
103-65-1	N-Propylbenzene	1.0	U	1.0	0.69
95-47-6	o-Xylene	1.0	U	1.0	0.76
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.75
127-18-4	Tetrachloroethene	7.0		1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	2.2		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.73
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.81

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: S3718.d

Analysis Method: 8260C | Date Collected: 10/30/2024 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 14:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: S3718.d

Analysis Method: 8260C | Date Collected: 10/30/2024 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 14:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: S3719.d

Analysis Method: 8260C | Date Collected: 10/30/2024 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 15:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72	
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84	
78-93-3	2-Butanone (MEK)	10	U	10	1.3	
591-78-6	2-Hexanone	5.0	U	5.0	1.2	UJ
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.31	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	
67-64-1	Acetone	10	U	10	3.0	
71-43-2	Benzene	1.0	U	1.0	0.41	
75-25-2	Bromoform	1.0	U	1.0	0.26	
74-83-9	Bromomethane	1.0	U	1.0	0.69	
75-15-0	Carbon disulfide	1.0	U	1.0	0.19	
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27	
108-90-7	Chlorobenzene	1.0	U	1.0	0.75	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.32	
67-66-3	Chloroform	0.39	J	1.0	0.34	
74-87-3	Chloromethane	1.0	U	1.0	0.35	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81	
110-82-7	Cyclohexane	1.0	U	1.0	0.18	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: S3719.d

Analysis Method: 8260C | Date Collected: 10/30/2024 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 15:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
91-20-3	Naphthalene	1.0	U	1.0	0.43
104-51-8	n-Butylbenzene	1.0	U	1.0	0.64
103-65-1	N-Propylbenzene	1.0	U	1.0	0.69
95-47-6	o-Xylene	1.0	U	1.0	0.76
135-98-8	sec-Butylbenzene	0.81	J	1.0	0.75
127-18-4	Tetrachloroethene	2.3		1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.1		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.73
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.81

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: S3719.d

Analysis Method: 8260C | Date Collected: 10/30/2024 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 15:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	88		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: S3719.d

Analysis Method: 8260C | Date Collected: 10/30/2024 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 15:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730795 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973S

Number TICs Found: 3 | TIC Result Total: 8.5

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
280-65-9	Bicyclo[3.3.1]nonane	8.49	3.2	T J N	89%
	Unknown	9.03	2.8	T J	
527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	11.62	2.5	T J N	91%

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: Y04628.D

Analysis Method: 8270D | Date Collected: 10/30/2024 09:30

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2024 15:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730787 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
92-52-4	Biphenyl	5.0	U	5.0	0.65	
108-60-1	bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	
95-95-4	2,4,5-Trichlorophenol	5.0	U	5.0	0.48	
88-06-2	2,4,6-Trichlorophenol	5.0	U	5.0	0.61	
120-83-2	2,4-Dichlorophenol	5.0	U	5.0	0.51	
105-67-9	2,4-Dimethylphenol	5.0	U	5.0	0.50	
51-28-5	2,4-Dinitrophenol	10	U	10	2.2	
121-14-2	2,4-Dinitrotoluene	5.0	U	5.0	0.45	
606-20-2	2,6-Dinitrotoluene	5.0	U	5.0	0.40	
91-58-7	2-Chloronaphthalene	5.0	U	5.0	0.46	
95-57-8	2-Chlorophenol	5.0	U	5.0	0.53	
91-57-6	2-Methylnaphthalene	5.0	U	5.0	0.60	
95-48-7	2-Methylphenol	5.0	U	5.0	0.40	
88-74-4	2-Nitroaniline	10	U	10	0.42	UJ
88-75-5	2-Nitrophenol	5.0	U	5.0	0.48	
91-94-1	3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	
99-09-2	3-Nitroaniline	10	U	10	0.48	
534-52-1	4,6-Dinitro-2-methylphenol	10	U	10	2.2	
101-55-3	4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	
59-50-7	4-Chloro-3-methylphenol	5.0	U	5.0	0.45	
106-47-8	4-Chloroaniline	5.0	U	5.0	0.59	
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	
106-44-5	4-Methylphenol	10	U	10	0.36	
100-01-6	4-Nitroaniline	10	U	10	0.25	
100-02-7	4-Nitrophenol	10	U	10	1.5	UJ
83-32-9	Acenaphthene	5.0	U	5.0	0.41	
208-96-8	Acenaphthylene	5.0	U	5.0	0.38	
98-86-2	Acetophenone	5.0	U	5.0	0.54	
120-12-7	Anthracene	5.0	U	5.0	0.28	
1912-24-9	Atrazine	5.0	U F2	5.0	0.46	
100-52-7	Benzaldehyde	5.0	U	5.0	0.27	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: Y04628.D

Analysis Method: 8270D | Date Collected: 10/30/2024 09:30

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2024 15:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730787 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
56-55-3	Benzo(a)anthracene	5.0	U	5.0	0.36	
50-32-8	Benzo(a)pyrene	5.0	U	5.0	0.47	
205-99-2	Benzo(b)fluoranthene	5.0	U	5.0	0.34	
191-24-2	Benzo(g,h,i)perylene	5.0	U	5.0	0.35	
207-08-9	Benzo(k)fluoranthene	5.0	U	5.0	0.73	
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	
111-44-4	Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	UJ
85-68-7	Butyl benzyl phthalate	5.0	U	5.0	1.0	
105-60-2	Caprolactam	5.0	U	5.0	2.2	
86-74-8	Carbazole	5.0	U	5.0	0.30	
218-01-9	Chrysene	5.0	U	5.0	0.33	
84-74-2	Di-n-butyl phthalate	5.0	U	5.0	0.31	
117-84-0	Di-n-octyl phthalate	5.0	U	5.0	0.47	
53-70-3	Dibenz(a,h)anthracene	5.0	U	5.0	0.42	
132-64-9	Dibenzofuran	10	U	10	0.51	
84-66-2	Diethyl phthalate	5.0	U	5.0	0.22	
131-11-3	Dimethyl phthalate	5.0	U	5.0	0.36	
206-44-0	Fluoranthene	5.0	U	5.0	0.40	
86-73-7	Fluorene	5.0	U	5.0	0.36	
118-74-1	Hexachlorobenzene	5.0	U	5.0	0.51	UJ
87-68-3	Hexachlorobutadiene	5.0	U	5.0	0.68	
77-47-4	Hexachlorocyclopentadiene	5.0	U	5.0	0.59	UJ
67-72-1	Hexachloroethane	5.0	U	5.0	0.59	
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	
78-59-1	Isophorone	5.0	U	5.0	0.43	
621-64-7	N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	
86-30-6	N-Nitrosodiphenylamine	5.0	U	5.0	0.51	
91-20-3	Naphthalene	5.0	U	5.0	0.76	
98-95-3	Nitrobenzene	5.0	U	5.0	0.29	
87-86-5	Pentachlorophenol	10	U	10	2.2	UJ

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: Y04628.D

Analysis Method: 8270D | Date Collected: 10/30/2024 09:30

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2024 15:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730787 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	5.0	U	5.0	0.44
108-95-2	Phenol	5.0	U	5.0	0.39
129-00-0	Pyrene	5.0	U	5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	65		25-144
321-60-8	2-Fluorobiphenyl	83		53-126
367-12-4	2-Fluorophenol	62		24-120
4165-60-0	Nitrobenzene-d5	94		29-129
1718-51-0	p-Terphenyl-d14	75		33-132
4165-62-2	Phenol-d5	45		10-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: Y04626.D

Analysis Method: 8270D | Date Collected: 10/30/2024 10:30

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 240(mL) | Date Analyzed: 11/04/2024 14:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731032 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
92-52-4	Biphenyl	5.2	U	5.2	0.68	
108-60-1	bis (2-chloroisopropyl) ether	5.2	U	5.2	0.54	
95-95-4	2,4,5-Trichlorophenol	5.2	U	5.2	0.50	
88-06-2	2,4,6-Trichlorophenol	5.2	U	5.2	0.64	
120-83-2	2,4-Dichlorophenol	5.2	U	5.2	0.53	
105-67-9	2,4-Dimethylphenol	5.2	U	5.2	0.52	
51-28-5	2,4-Dinitrophenol	10	U	10	2.3	
121-14-2	2,4-Dinitrotoluene	5.2	U	5.2	0.47	
606-20-2	2,6-Dinitrotoluene	5.2	U	5.2	0.42	
91-58-7	2-Chloronaphthalene	5.2	U	5.2	0.48	
95-57-8	2-Chlorophenol	5.2	U	5.2	0.55	
91-57-6	2-Methylnaphthalene	5.2	U	5.2	0.63	
95-48-7	2-Methylphenol	5.2	U	5.2	0.42	
88-74-4	2-Nitroaniline	10	U	10	0.44	UJ
88-75-5	2-Nitrophenol	5.2	U	5.2	0.50	
91-94-1	3,3'-Dichlorobenzidine	5.2	U	5.2	0.42	
99-09-2	3-Nitroaniline	10	U	10	0.50	
534-52-1	4,6-Dinitro-2-methylphenol	10	U	10	2.3	
101-55-3	4-Bromophenyl phenyl ether	5.2	U	5.2	0.47	
59-50-7	4-Chloro-3-methylphenol	5.2	U	5.2	0.47	
106-47-8	4-Chloroaniline	5.2	U	5.2	0.61	
7005-72-3	4-Chlorophenyl phenyl ether	5.2	U	5.2	0.36	
106-44-5	4-Methylphenol	10	U	10	0.38	
100-01-6	4-Nitroaniline	10	U	10	0.26	
100-02-7	4-Nitrophenol	10	U	10	1.6	UJ
83-32-9	Acenaphthene	5.2	U	5.2	0.43	
208-96-8	Acenaphthylene	5.2	U	5.2	0.40	
98-86-2	Acetophenone	5.2	U	5.2	0.56	
120-12-7	Anthracene	5.2	U	5.2	0.29	
1912-24-9	Atrazine	5.2	U	5.2	0.48	
100-52-7	Benzaldehyde	5.2	U	5.2	0.28	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: Y04626.D

Analysis Method: 8270D | Date Collected: 10/30/2024 10:30

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 240(mL) | Date Analyzed: 11/04/2024 14:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731032 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
56-55-3	Benzo(a)anthracene	5.2	U	5.2	0.38	
50-32-8	Benzo(a)pyrene	5.2	U	5.2	0.49	
205-99-2	Benzo(b)fluoranthene	5.2	U	5.2	0.35	
191-24-2	Benzo(g,h,i)perylene	5.2	U	5.2	0.36	
207-08-9	Benzo(k)fluoranthene	5.2	U	5.2	0.76	
111-91-1	Bis(2-chloroethoxy)methane	5.2	U	5.2	0.36	
111-44-4	Bis(2-chloroethyl)ether	5.2	U	5.2	0.42	
117-81-7	Bis(2-ethylhexyl) phthalate	5.2	U	5.2	2.3	UJ
85-68-7	Butyl benzyl phthalate	5.2	U	5.2	1.0	
105-60-2	Caprolactam	5.2	U	5.2	2.3	
86-74-8	Carbazole	5.2	U	5.2	0.31	
218-01-9	Chrysene	5.2	U	5.2	0.34	
84-74-2	Di-n-butyl phthalate	5.2	U	5.2	0.32	
117-84-0	Di-n-octyl phthalate	5.2	U	5.2	0.49	
53-70-3	Dibenz(a,h)anthracene	5.2	U	5.2	0.44	
132-64-9	Dibenzofuran	10	U	10	0.53	
84-66-2	Diethyl phthalate	5.2	U	5.2	0.23	
131-11-3	Dimethyl phthalate	5.2	U	5.2	0.38	
206-44-0	Fluoranthene	5.2	U	5.2	0.42	
86-73-7	Fluorene	5.2	U	5.2	0.38	
118-74-1	Hexachlorobenzene	5.2	U	5.2	0.53	
87-68-3	Hexachlorobutadiene	5.2	U	5.2	0.71	
77-47-4	Hexachlorocyclopentadiene	5.2	U	5.2	0.61	UJ
67-72-1	Hexachloroethane	5.2	U	5.2	0.61	
193-39-5	Indeno(1,2,3-cd)pyrene	5.2	U	5.2	0.49	
78-59-1	Isophorone	5.2	U	5.2	0.45	
621-64-7	N-Nitrosodi-n-propylamine	5.2	U	5.2	0.56	
86-30-6	N-Nitrosodiphenylamine	5.2	U	5.2	0.53	
91-20-3	Naphthalene	5.2	U	5.2	0.79	
98-95-3	Nitrobenzene	5.2	U	5.2	0.30	
87-86-5	Pentachlorophenol	10	U	10	2.3	UJ

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: Y04626.D

Analysis Method: 8270D | Date Collected: 10/30/2024 10:30

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 240(mL) | Date Analyzed: 11/04/2024 14:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731032 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	5.2	U	5.2	0.46
108-95-2	Phenol	5.2	U	5.2	0.41
129-00-0	Pyrene	5.2	U	5.2	0.35

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	74		25-144
321-60-8	2-Fluorobiphenyl	82		53-126
367-12-4	2-Fluorophenol	57		24-120
4165-60-0	Nitrobenzene-d5	85		29-129
1718-51-0	p-Terphenyl-d14	83		33-132
4165-62-2	Phenol-d5	43		10-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: Y04627.D

Analysis Method: 8270D | Date Collected: 10/30/2024 13:00

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 250(mL) | Date Analyzed: 11/04/2024 14:39

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731032 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
92-52-4	Biphenyl	5.0	U	5.0	0.65	
108-60-1	bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	
95-95-4	2,4,5-Trichlorophenol	5.0	U	5.0	0.48	
88-06-2	2,4,6-Trichlorophenol	5.0	U	5.0	0.61	
120-83-2	2,4-Dichlorophenol	5.0	U	5.0	0.51	
105-67-9	2,4-Dimethylphenol	5.0	U	5.0	0.50	
51-28-5	2,4-Dinitrophenol	10	U	10	2.2	
121-14-2	2,4-Dinitrotoluene	5.0	U	5.0	0.45	
606-20-2	2,6-Dinitrotoluene	5.0	U	5.0	0.40	
91-58-7	2-Chloronaphthalene	5.0	U	5.0	0.46	
95-57-8	2-Chlorophenol	5.0	U	5.0	0.53	
91-57-6	2-Methylnaphthalene	5.0	U	5.0	0.60	
95-48-7	2-Methylphenol	5.0	U	5.0	0.40	
88-74-4	2-Nitroaniline	10	U	10	0.42	UJ
88-75-5	2-Nitrophenol	5.0	U	5.0	0.48	
91-94-1	3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	
99-09-2	3-Nitroaniline	10	U	10	0.48	
534-52-1	4,6-Dinitro-2-methylphenol	10	U	10	2.2	
101-55-3	4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	
59-50-7	4-Chloro-3-methylphenol	5.0	U	5.0	0.45	
106-47-8	4-Chloroaniline	5.0	U	5.0	0.59	
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	
106-44-5	4-Methylphenol	10	U	10	0.36	
100-01-6	4-Nitroaniline	10	U	10	0.25	
100-02-7	4-Nitrophenol	10	U	10	1.5	UJ
83-32-9	Acenaphthene	5.0	U	5.0	0.41	
208-96-8	Acenaphthylene	5.0	U	5.0	0.38	
98-86-2	Acetophenone	5.0	U	5.0	0.54	
120-12-7	Anthracene	5.0	U	5.0	0.28	
1912-24-9	Atrazine	5.0	U	5.0	0.46	
100-52-7	Benzaldehyde	5.0	U	5.0	0.27	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: Y04627.D

Analysis Method: 8270D | Date Collected: 10/30/2024 13:00

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 250(mL) | Date Analyzed: 11/04/2024 14:39

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731032 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
56-55-3	Benzo(a)anthracene	5.0	U	5.0	0.36	
50-32-8	Benzo(a)pyrene	5.0	U	5.0	0.47	
205-99-2	Benzo(b)fluoranthene	5.0	U	5.0	0.34	
191-24-2	Benzo(g,h,i)perylene	5.0	U	5.0	0.35	
207-08-9	Benzo(k)fluoranthene	5.0	U	5.0	0.73	
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	
111-44-4	Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	UJ
85-68-7	Butyl benzyl phthalate	5.0	U	5.0	1.0	
105-60-2	Caprolactam	5.0	U	5.0	2.2	
86-74-8	Carbazole	5.0	U	5.0	0.30	
218-01-9	Chrysene	5.0	U	5.0	0.33	
84-74-2	Di-n-butyl phthalate	5.0	U	5.0	0.31	
117-84-0	Di-n-octyl phthalate	5.0	U	5.0	0.47	
53-70-3	Dibenz(a,h)anthracene	5.0	U	5.0	0.42	
132-64-9	Dibenzofuran	10	U	10	0.51	
84-66-2	Diethyl phthalate	5.0	U	5.0	0.22	
131-11-3	Dimethyl phthalate	5.0	U	5.0	0.36	
206-44-0	Fluoranthene	5.0	U	5.0	0.40	
86-73-7	Fluorene	5.0	U	5.0	0.36	
118-74-1	Hexachlorobenzene	5.0	U	5.0	0.51	
87-68-3	Hexachlorobutadiene	5.0	U	5.0	0.68	
77-47-4	Hexachlorocyclopentadiene	5.0	U	5.0	0.59	UJ
67-72-1	Hexachloroethane	5.0	U	5.0	0.59	
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	
78-59-1	Isophorone	5.0	U	5.0	0.43	
621-64-7	N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	
86-30-6	N-Nitrosodiphenylamine	5.0	U	5.0	0.51	
91-20-3	Naphthalene	5.0	U	5.0	0.76	
98-95-3	Nitrobenzene	5.0	U	5.0	0.29	
87-86-5	Pentachlorophenol	10	U	10	2.2	UJ

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: Y04627.D

Analysis Method: 8270D | Date Collected: 10/30/2024 13:00

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 250(mL) | Date Analyzed: 11/04/2024 14:39

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731032 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	5.0	U	5.0	0.44
108-95-2	Phenol	5.0	U	5.0	0.39
129-00-0	Pyrene	5.0	U	5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	67		25-144
321-60-8	2-Fluorobiphenyl	64		53-126
367-12-4	2-Fluorophenol	48		24-120
4165-60-0	Nitrobenzene-d5	75		29-129
1718-51-0	p-Terphenyl-d14	71		33-132
4165-62-2	Phenol-d5	35		10-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: Y04628.D

Analysis Method: 8270D | Date Collected: 10/30/2024 14:00

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 250(mL) | Date Analyzed: 11/04/2024 15:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731032 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
92-52-4	Biphenyl	5.0	U	5.0	0.65	
108-60-1	bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	
95-95-4	2,4,5-Trichlorophenol	5.0	U	5.0	0.48	
88-06-2	2,4,6-Trichlorophenol	5.0	U	5.0	0.61	
120-83-2	2,4-Dichlorophenol	5.0	U	5.0	0.51	
105-67-9	2,4-Dimethylphenol	5.0	U	5.0	0.50	
51-28-5	2,4-Dinitrophenol	10	U	10	2.2	
121-14-2	2,4-Dinitrotoluene	5.0	U	5.0	0.45	
606-20-2	2,6-Dinitrotoluene	5.0	U	5.0	0.40	
91-58-7	2-Chloronaphthalene	5.0	U	5.0	0.46	
95-57-8	2-Chlorophenol	5.0	U	5.0	0.53	
91-57-6	2-Methylnaphthalene	5.0	U	5.0	0.60	
95-48-7	2-Methylphenol	5.0	U	5.0	0.40	
88-74-4	2-Nitroaniline	10	U	10	0.42	UJ
88-75-5	2-Nitrophenol	5.0	U	5.0	0.48	
91-94-1	3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	
99-09-2	3-Nitroaniline	10	U	10	0.48	
534-52-1	4,6-Dinitro-2-methylphenol	10	U	10	2.2	
101-55-3	4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	
59-50-7	4-Chloro-3-methylphenol	5.0	U	5.0	0.45	
106-47-8	4-Chloroaniline	5.0	U	5.0	0.59	
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	
106-44-5	4-Methylphenol	10	U	10	0.36	
100-01-6	4-Nitroaniline	10	U	10	0.25	
100-02-7	4-Nitrophenol	10	U	10	1.5	UJ
83-32-9	Acenaphthene	5.0	U	5.0	0.41	
208-96-8	Acenaphthylene	5.0	U	5.0	0.38	
98-86-2	Acetophenone	5.0	U	5.0	0.54	
120-12-7	Anthracene	5.0	U	5.0	0.28	
1912-24-9	Atrazine	5.0	U	5.0	0.46	
100-52-7	Benzaldehyde	5.0	U	5.0	0.27	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: Y04628.D

Analysis Method: 8270D | Date Collected: 10/30/2024 14:00

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 250(mL) | Date Analyzed: 11/04/2024 15:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731032 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
56-55-3	Benzo(a)anthracene	5.0	U	5.0	0.36	
50-32-8	Benzo(a)pyrene	5.0	U	5.0	0.47	
205-99-2	Benzo(b)fluoranthene	5.0	U	5.0	0.34	
191-24-2	Benzo(g,h,i)perylene	5.0	U	5.0	0.35	
207-08-9	Benzo(k)fluoranthene	5.0	U	5.0	0.73	
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	
111-44-4	Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	UJ
85-68-7	Butyl benzyl phthalate	5.0	U	5.0	1.0	
105-60-2	Caprolactam	5.0	U	5.0	2.2	
86-74-8	Carbazole	5.0	U	5.0	0.30	
218-01-9	Chrysene	5.0	U	5.0	0.33	
84-74-2	Di-n-butyl phthalate	5.0	U	5.0	0.31	
117-84-0	Di-n-octyl phthalate	5.0	U	5.0	0.47	
53-70-3	Dibenz(a,h)anthracene	5.0	U	5.0	0.42	
132-64-9	Dibenzofuran	10	U	10	0.51	
84-66-2	Diethyl phthalate	5.0	U	5.0	0.22	
131-11-3	Dimethyl phthalate	5.0	U	5.0	0.36	
206-44-0	Fluoranthene	5.0	U	5.0	0.40	
86-73-7	Fluorene	5.0	U	5.0	0.36	
118-74-1	Hexachlorobenzene	5.0	U	5.0	0.51	
87-68-3	Hexachlorobutadiene	5.0	U	5.0	0.68	
77-47-4	Hexachlorocyclopentadiene	5.0	U	5.0	0.59	UJ
67-72-1	Hexachloroethane	5.0	U	5.0	0.59	
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	
78-59-1	Isophorone	5.0	U	5.0	0.43	
621-64-7	N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	
86-30-6	N-Nitrosodiphenylamine	5.0	U	5.0	0.51	
91-20-3	Naphthalene	5.0	U	5.0	0.76	
98-95-3	Nitrobenzene	5.0	U	5.0	0.29	
87-86-5	Pentachlorophenol	10	U	10	2.2	UJ

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: Y04628.D

Analysis Method: 8270D | Date Collected: 10/30/2024 14:00

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:59

Sample wt/vol: 250(mL) | Date Analyzed: 11/04/2024 15:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731032 | Units: ug/L

Preparation Batch No.: 730680 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	5.0	U	5.0	0.44
108-95-2	Phenol	5.0	U	5.0	0.39
129-00-0	Pyrene	5.0	U	5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	73		25-144
321-60-8	2-Fluorobiphenyl	76		53-126
367-12-4	2-Fluorophenol	54		24-120
4165-60-0	Nitrobenzene-d5	85		29-129
1718-51-0	p-Terphenyl-d14	79		33-132
4165-62-2	Phenol-d5	41		10-120

Method 8270D SIM-ID

Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) by Method 8270D

No data validation qualifiers were added

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: U0000041735.d

Analysis Method: 8270D SIM ID | Date Collected: 10/30/2024 09:30

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:53

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2024 12:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730784 | Units: ug/L

Preparation Batch No.: 730679 | Instrument ID: HP5973U

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	41		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: U0000041737.d

Analysis Method: 8270D SIM ID | Date Collected: 10/30/2024 10:30

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:53

Sample wt/vol: 240(mL) | Date Analyzed: 11/01/2024 13:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730784 | Units: ug/L

Preparation Batch No.: 730679 | Instrument ID: HP5973U

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.21	U	0.21	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	43		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: U0000041738.d

Analysis Method: 8270D SIM ID | Date Collected: 10/30/2024 13:00

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:53

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2024 13:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730784 | Units: ug/L

Preparation Batch No.: 730679 | Instrument ID: HP5973U

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	39		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: U0000041739.d

Analysis Method: 8270D SIM ID | Date Collected: 10/30/2024 14:00

Extract. Method: 3510C | Date Extracted: 10/31/2024 13:53

Sample wt/vol: 240(mL) | Date Analyzed: 11/01/2024 14:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730784 | Units: ug/L

Preparation Batch No.: 730679 | Instrument ID: HP5973U

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.21	U	0.21	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	44		15-110

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: 5_75219.D

Analysis Method: 8081B | Date Collected: 10/30/2024 09:30

Extraction Method: 3510C | Date Extracted: 11/05/2024 09:19

Sample wt/vol: 250(mL) | Date Analyzed: 11/06/2024 10:24

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731303 | Units: ug/L

Preparation Batch No.: 731202 | Instrument ID: HP6890-5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	0.050	U	0.050	0.0092	
72-55-9	4,4'-DDE	0.050	U	0.050	0.012	
50-29-3	4,4'-DDT	0.050 UJ ~~0.024~~	~~J~~ B	0.050	0.011	UJ
309-00-2	Aldrin	0.050	U	0.050	0.0081	
319-84-6	alpha-BHC	0.050	U	0.050	0.0077	
5103-71-9	Chlordane (.alpha.)	0.050	U	0.050	0.015	
319-85-7	beta-BHC	0.050	U	0.050	0.025	
319-86-8	delta-BHC	0.050	U	0.050	0.010	
60-57-1	Dieldrin	0.050	U	0.050	0.0098	
959-98-8	Endosulfan I	0.050	U	0.050	0.011	
33213-65-9	Endosulfan II	0.050 UJ ~~0.013~~	~~J~~ B	0.050	0.012	UJ
1031-07-8	Endosulfan sulfate	0.050	U	0.050	0.016	
72-20-8	Endrin	0.050	U	0.050	0.014	
58-89-9	Lindane	0.050	U	0.050	0.0080	
76-44-8	Heptachlor	0.050	U	0.050	0.0085	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	53		10-120
877-09-8	Tetrachloro-m-xylene	68		10-120

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: 5_75220.D

Analysis Method: 8081B | Date Collected: 10/30/2024 10:30

Extraction Method: 3510C | Date Extracted: 11/05/2024 09:19

Sample wt/vol: 240(mL) | Date Analyzed: 11/06/2024 10:44

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731303 | Units: ug/L

Preparation Batch No.: 731202 | Instrument ID: HP6890-5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	0.052	U	0.052	0.0096	
72-55-9	4,4'-DDE	0.052	U	0.052	0.012	
50-29-3	4,4'-DDT	0.052 UJ ~~0.022 J B~~		0.052	0.011	UJ
309-00-2	Aldrin	0.052	U	0.052	0.0084	
319-84-6	alpha-BHC	0.052	U	0.052	0.0080	
5103-71-9	Chlordane (.alpha.)	0.052	U	0.052	0.015	
319-85-7	beta-BHC	0.052	U	0.052	0.026	
319-86-8	delta-BHC	0.052	U	0.052	0.010	
60-57-1	Dieldrin	0.052	U	0.052	0.010	
959-98-8	Endosulfan I	0.052	U	0.052	0.011	
33213-65-9	Endosulfan II	0.052	U	0.052	0.013	
1031-07-8	Endosulfan sulfate	0.052	U	0.052	0.016	
72-20-8	Endrin	0.052	U	0.052	0.014	
58-89-9	Lindane	0.052	U	0.052	0.0083	
76-44-8	Heptachlor	0.052	U	0.052	0.0089	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	66		10-120
877-09-8	Tetrachloro-m-xylene	72		10-120

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: 5_75221.D

Analysis Method: 8081B | Date Collected: 10/30/2024 13:00

Extraction Method: 3510C | Date Extracted: 11/05/2024 09:19

Sample wt/vol: 250(mL) | Date Analyzed: 11/06/2024 11:03

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731303 | Units: ug/L

Preparation Batch No.: 731202 | Instrument ID: HP6890-5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	0.050	U	0.050	0.0092	
72-55-9	4,4'-DDE	0.013	J	0.050	0.012	J
50-29-3	4,4'-DDT	0.050 UJ ~~0.041~~	~~J B~~	0.050	0.011	UJ
309-00-2	Aldrin	0.050	U	0.050	0.0081	
319-84-6	alpha-BHC	0.050	U	0.050	0.0077	
5103-71-9	Chlordane (.alpha.)	0.050	U	0.050	0.015	
319-85-7	beta-BHC	0.050	U	0.050	0.025	
319-86-8	delta-BHC	0.050 UJ ~~0.011~~	~~J B~~	0.050	0.010	UJ
60-57-1	Dieldrin	0.050	U	0.050	0.0098	
959-98-8	Endosulfan I	0.050	U	0.050	0.011	
33213-65-9	Endosulfan II	0.050 UJ ~~0.014~~	~~J B~~	0.050	0.012	UJ
1031-07-8	Endosulfan sulfate	0.050	U	0.050	0.016	
72-20-8	Endrin	0.050	U	0.050	0.014	
58-89-9	Lindane	0.050	U	0.050	0.0080	
76-44-8	Heptachlor	0.050	U	0.050	0.0085	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	56		10-120
877-09-8	Tetrachloro-m-xylene	79		10-120

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: 5_75222.D

Analysis Method: 8081B | Date Collected: 10/30/2024 14:00

Extraction Method: 3510C | Date Extracted: 11/05/2024 09:19

Sample wt/vol: 220(mL) | Date Analyzed: 11/06/2024 11:23

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731303 | Units: ug/L

Preparation Batch No.: 731202 | Instrument ID: HP6890-5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	0.057	U	0.057	0.010	
72-55-9	4,4'-DDE	0.057	U	0.057	0.013	
50-29-3	4,4'-DDT	0.057 UJ ~~0.018 J B~~		0.057	0.013	UJ
309-00-2	Aldrin	0.057	U	0.057	0.0092	
319-84-6	alpha-BHC	0.057	U	0.057	0.0088	
5103-71-9	Chlordane (.alpha.)	0.057	U	0.057	0.017	
319-85-7	beta-BHC	0.057	U	0.057	0.028	
319-86-8	delta-BHC	0.057	U	0.057	0.011	
60-57-1	Dieldrin	0.057	U	0.057	0.011	
959-98-8	Endosulfan I	0.057	U	0.057	0.013	
33213-65-9	Endosulfan II	0.057 UJ ~~0.026 J B~~		0.057	0.014	UJ
1031-07-8	Endosulfan sulfate	0.057	U	0.057	0.018	
72-20-8	Endrin	0.057	U	0.057	0.016	
58-89-9	Lindane	0.057 UJ ~~0.010 J B~~		0.057	0.0091	UJ
76-44-8	Heptachlor	0.057	U	0.057	0.0097	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	42		10-120
877-09-8	Tetrachloro-m-xylene	61		10-120

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Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

No data validation qualifiers were added

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FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: 70001815.D

Analysis Method: 8082A | Date Collected: 10/30/2024 09:30

Extraction Method: 3510C | Date Extracted: 11/07/2024 09:15

Sample wt/vol: 210(mL) | Date Analyzed: 11/07/2024 15:56

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731518 | Units: ug/L

Preparation Batch No.: 731490 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.60	U	0.60	0.21
11104-28-2	PCB-1221	0.60	U	0.60	0.21
11141-16-5	PCB-1232	0.60	U	0.60	0.21
53469-21-9	PCB-1242	0.60	U	0.60	0.21
12672-29-6	PCB-1248	0.60	U	0.60	0.21
11097-69-1	PCB-1254	0.60	U	0.60	0.30
11096-82-5	PCB-1260	0.60	U	0.60	0.30

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	68		10-145
2051-24-3	DCB Decachlorobiphenyl	73		10-123

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: 70001816.D

Analysis Method: 8082A | Date Collected: 10/30/2024 10:30

Extraction Method: 3510C | Date Extracted: 11/07/2024 09:15

Sample wt/vol: 200(mL) | Date Analyzed: 11/07/2024 16:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731518 | Units: ug/L

Preparation Batch No.: 731490 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.63	U	0.63	0.22
11104-28-2	PCB-1221	0.63	U	0.63	0.22
11141-16-5	PCB-1232	0.63	U	0.63	0.22
53469-21-9	PCB-1242	0.63	U	0.63	0.22
12672-29-6	PCB-1248	0.63	U	0.63	0.22
11097-69-1	PCB-1254	0.63	U	0.63	0.31
11096-82-5	PCB-1260	0.63	U	0.63	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	74		10-145
2051-24-3	DCB Decachlorobiphenyl	70		10-123

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: 70001838.D

Analysis Method: 8082A | Date Collected: 10/30/2024 13:00

Extraction Method: 3510C | Date Extracted: 11/07/2024 09:15

Sample wt/vol: 250(mL) | Date Analyzed: 11/08/2024 10:04

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731621 | Units: ug/L

Preparation Batch No.: 731490 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.50	U	0.50	0.18
11104-28-2	PCB-1221	0.50	U	0.50	0.18
11141-16-5	PCB-1232	0.50	U	0.50	0.18
53469-21-9	PCB-1242	0.50	U	0.50	0.18
12672-29-6	PCB-1248	0.50	U	0.50	0.18
11097-69-1	PCB-1254	0.50	U	0.50	0.25
11096-82-5	PCB-1260	0.50	U	0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	68		10-145
2051-24-3	DCB Decachlorobiphenyl	72		10-123

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: 70001818.D

Analysis Method: 8082A | Date Collected: 10/30/2024 14:00

Extraction Method: 3510C | Date Extracted: 11/07/2024 09:15

Sample wt/vol: 240(mL) | Date Analyzed: 11/07/2024 16:51

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731518 | Units: ug/L

Preparation Batch No.: 731490 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.52	U	0.52	0.18
11104-28-2	PCB-1221	0.52	U	0.52	0.18
11141-16-5	PCB-1232	0.52	U	0.52	0.18
53469-21-9	PCB-1242	0.52	U	0.52	0.18
12672-29-6	PCB-1248	0.52	U	0.52	0.18
11097-69-1	PCB-1254	0.52	U	0.52	0.26
11096-82-5	PCB-1260	0.52	U	0.52	0.26

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	63		10-145
2051-24-3	DCB Decachlorobiphenyl	67		10-123

Method 8151A

Herbicides (GC) by Method 8151A

No data validation qualifiers were added

MKP 12/17/2024

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: 2024-11-05 19-23-58-05-00-23.D

Analysis Method: 8151A | Date Collected: 10/30/2024 09:30

Extraction Method: 8151A | Date Extracted: 11/04/2024 09:29

Sample wt/vol: 980(mL) | Date Analyzed: 11/05/2024 19:23

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/L

Preparation Batch No.: 731060 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	Silvex (2,4,5-TP)	0.51	U	0.51	0.051

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	74		21-143

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: 2024-11-05 19-42-28-05-00-24.D

Analysis Method: 8151A | Date Collected: 10/30/2024 10:30

Extraction Method: 8151A | Date Extracted: 11/04/2024 09:29

Sample wt/vol: 970(mL) | Date Analyzed: 11/05/2024 19:42

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/L

Preparation Batch No.: 731060 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	Silvex (2,4,5-TP)	0.52	U	0.52	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	81		21-143

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: 2024-11-05 20-00-57-05-00-25.D

Analysis Method: 8151A | Date Collected: 10/30/2024 13:00

Extraction Method: 8151A | Date Extracted: 11/04/2024 09:29

Sample wt/vol: 1050(mL) | Date Analyzed: 11/05/2024 20:00

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/L

Preparation Batch No.: 731060 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	Silvex (2,4,5-TP)	0.48	U	0.48	0.048

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	85		21-143

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: 2024-11-05 20-19-32-05-00-26.D

Analysis Method: 8151A | Date Collected: 10/30/2024 14:00

Extraction Method: 8151A | Date Extracted: 11/04/2024 09:29

Sample wt/vol: 980(mL) | Date Analyzed: 11/05/2024 20:19

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/L

Preparation Batch No.: 731060 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	Silvex (2,4,5-TP)	0.51	U	0.51	0.051

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	81		21-143

1633

Per- and Polyfluoroalkyl Substances by LC/MS/MS

No data validation qualifiers were added

MKP 12/17/2024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj15.d

Analysis Method: 1633 | Date Collected: 10/30/2024 09:30

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 144.8(mL) | Date Analyzed: 11/04/2024 18:55

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	17		6.9	1.8
2706-90-3	Perfluoropentanoic acid (PFPeA)	19		3.5	0.86
307-24-4	Perfluorohexanoic acid (PFHxA)	18		1.7	0.43
375-85-9	Perfluoroheptanoic acid (PFHpA)	9.3		1.7	0.43
335-67-1	Perfluorooctanoic acid (PFOA)	16		1.7	0.43
375-95-1	Perfluorononanoic acid (PFNA)	1.5	J	1.7	0.43
335-76-2	Perfluorodecanoic acid (PFDA)	0.81	J	1.7	0.43
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.43
307-55-1	Perfluorododecanoic acid (PFDoA)	1.7	U	1.7	0.43
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1.7	U	1.7	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	1.7	U	1.7	0.43
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.1		1.7	0.43
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.50	J	1.7	0.43
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.0		1.7	0.45
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.7	U	1.7	0.43
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	5.2		1.7	0.43
68259-12-1	Perfluorononanesulfonic acid (PFNS)	1.7	U	1.7	0.43
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.7	U	1.7	0.43
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	6.9	U	6.9	1.7
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	6.9	U	6.9	1.7
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.9	U	6.9	1.7
754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.7	U	1.7	0.43
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	1.7	U	1.7	0.43
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.7	U	1.7	0.43
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.7	U	1.7	0.54

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj15.d

Analysis Method: 1633 | Date Collected: 10/30/2024 09:30

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 144.8(mL) | Date Analyzed: 11/04/2024 18:55

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.7	U	1.7	0.45
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	17	U	17	4.3
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	17	U	17	4.3
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.9	U	6.9	1.7
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.9	U	6.9	1.7
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.5	U	3.5	0.86
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.5	U	3.5	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	6.9	U	6.9	1.7
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	6.9	U	6.9	1.7
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.5	U	3.5	0.86
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.6	U	8.6	2.2
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	43	U	43	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	43	U	43	13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.43
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	3.5	U	3.5	0.86

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj15.d

Analysis Method: 1633 | Date Collected: 10/30/2024 09:30

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 144.8(mL) | Date Analyzed: 11/04/2024 18:55

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	88.4		10-130
STL01893	13C5 PFPeA	81.5		35-150
STL02577	13C5 PFHxA	85.3		55-150
STL01892	13C4 PFHpA	87.7		55-150
STL01052	13C8 PFOA	88.9		60-140
STL02578	13C9 PFNA	84.2		55-140
STL02579	13C6 PFDA	82.9		50-140
STL02580	13C7 PFUnA	75.6		30-140
STL02116	13C2 PFTeDA	62.3		10-130
STL02337	13C3 PFBS	96.9		55-150
STL02581	13C3 PFHxS	81.4		55-150
STL01054	13C8 PFOS	81.8		45-140
STL01056	13C8 PFOSA	75.8		30-130
STL02118	d3-NMeFOSAA	74.5		45-200
STL02117	d5-NEtFOSAA	76.0		10-200
STL02395	M2-4:2 FTS	121		60-200
STL02279	M2-6:2 FTS	100		60-200
STL02280	M2-8:2 FTS	92.8		50-200
STL02255	13C3 HFPO-DA	76.9		25-160
STL02277	d7-N-MeFOSE-M	69.2		10-150
STL02278	d9-N-EtFOSE-M	62.7		10-150
STL02704	d5-NEtPFOSA	52.0		10-130
STL02705	D3-NMeFOSA	53.8		15-130
STL02703	13C2-PFDoDA	72.7		10-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj20.d

Analysis Method: 1633 | Date Collected: 10/30/2024 10:30

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 137.3(mL) | Date Analyzed: 11/04/2024 20:18

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: | % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	17		7.3	1.9
2706-90-3	Perfluoropentanoic acid (PFPeA)	19		3.6	0.91
307-24-4	Perfluorohexanoic acid (PFHxA)	18		1.8	0.46
375-85-9	Perfluoroheptanoic acid (PFHpA)	10		1.8	0.46
335-67-1	Perfluorooctanoic acid (PFOA)	16		1.8	0.46
375-95-1	Perfluorononanoic acid (PFNA)	1.4	J	1.8	0.46
335-76-2	Perfluorodecanoic acid (PFDA)	0.84	J	1.8	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.46
307-55-1	Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.46
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1.8	U	1.8	0.46
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	1.8	U	1.8	0.46
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.3		1.8	0.46
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.54	J	1.8	0.46
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.9		1.8	0.47
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.8	U	1.8	0.46
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	5.2		1.8	0.46
68259-12-1	Perfluorononanesulfonic acid (PFNS)	1.8	U	1.8	0.46
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.8	U	1.8	0.46
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.3	U	7.3	1.8
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.3	U	7.3	1.8
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.3	U	7.3	1.8
754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.8	U	1.8	0.46
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	1.8	U	1.8	0.46
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.8	U	1.8	0.46
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.8	U	1.8	0.56

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj20.d

Analysis Method: 1633 | Date Collected: 10/30/2024 10:30

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 137.3(mL) | Date Analyzed: 11/04/2024 20:18

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: | % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.8	U	1.8	0.47
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	18	U	18	4.6
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	18	U	18	4.6
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	7.3	U	7.3	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.3	U	7.3	1.8
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.6	U	3.6	0.91
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.6	U	3.6	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	7.3	U	7.3	1.8
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	7.3	U	7.3	1.8
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.6	U	3.6	0.91
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	9.1	U	9.1	2.3
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	46	U	46	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	46	U	46	14
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.46
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	3.6	U	3.6	0.91

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 DUP | Lab Sample ID: 480-224998-2

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj20.d

Analysis Method: 1633 | Date Collected: 10/30/2024 10:30

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 137.3(mL) | Date Analyzed: 11/04/2024 20:18

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	89.3		10-130
STL01893	13C5 PFPeA	83.3		35-150
STL02577	13C5 PFHxA	85.3		55-150
STL01892	13C4 PFHpA	90.0		55-150
STL01052	13C8 PFOA	86.6		60-140
STL02578	13C9 PFNA	88.2		55-140
STL02579	13C6 PFDA	82.2		50-140
STL02580	13C7 PFUnA	77.0		30-140
STL02116	13C2 PFTeDA	65.6		10-130
STL02337	13C3 PFBS	91.8		55-150
STL02581	13C3 PFHxS	82.3		55-150
STL01054	13C8 PFOS	79.1		45-140
STL01056	13C8 PFOSA	71.2		30-130
STL02118	d3-NMeFOSAA	69.9		45-200
STL02117	d5-NEtFOSAA	68.9		10-200
STL02395	M2-4:2 FTS	121		60-200
STL02279	M2-6:2 FTS	100		60-200
STL02280	M2-8:2 FTS	91.4		50-200
STL02255	13C3 HFPO-DA	78.1		25-160
STL02277	d7-N-MeFOSE-M	63.2		10-150
STL02278	d9-N-EtFOSE-M	58.1		10-150
STL02704	d5-NEtPFOSA	47.9		10-130
STL02705	D3-NMeFOSA	49.4		15-130
STL02703	13C2-PFDoDA	75.1		10-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj21.d

Analysis Method: 1633 | Date Collected: 10/30/2024 13:00

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 147.8(mL) | Date Analyzed: 11/04/2024 20:35

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: | % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	17		6.8	1.8
2706-90-3	Perfluoropentanoic acid (PFPeA)	37		3.4	0.85
307-24-4	Perfluorohexanoic acid (PFHxA)	38		1.7	0.42
375-85-9	Perfluoroheptanoic acid (PFHpA)	27		1.7	0.42
335-67-1	Perfluorooctanoic acid (PFOA)	42		1.7	0.42
375-95-1	Perfluorononanoic acid (PFNA)	4.3		1.7	0.42
335-76-2	Perfluorodecanoic acid (PFDA)	2.9		1.7	0.42
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.42
307-55-1	Perfluorododecanoic acid (PFDoA)	1.7	U	1.7	0.42
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1.7	U	1.7	0.42
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	1.7	U	1.7	0.42
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.8		1.7	0.42
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	1.3	J	1.7	0.42
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	4.4		1.7	0.44
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.7	U	1.7	0.42
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	13		1.7	0.42
68259-12-1	Perfluorononanesulfonic acid (PFNS)	1.7	U	1.7	0.42
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.7	U	1.7	0.42
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	6.8	U	6.8	1.7
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	6.8	U	6.8	1.7
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.8	U	6.8	1.7
754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.1	J I	1.7	0.42
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	1.7	U	1.7	0.42
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.7	U	1.7	0.42
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.7	U	1.7	0.52

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj21.d

Analysis Method: 1633 | Date Collected: 10/30/2024 13:00

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 147.8(mL) | Date Analyzed: 11/04/2024 20:35

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.7	U	1.7	0.44
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	17	U	17	4.2
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	17	U	17	4.2
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.8	U	6.8	1.7
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.8	U	6.8	1.7
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.4	U	3.4	0.85
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.4	U	3.4	1.0
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	6.8	U	6.8	1.7
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	6.8	U	6.8	1.7
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.4	U	3.4	0.85
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.5	U	8.5	2.1
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	42	U	42	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	42	U	42	13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.42
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	3.4	U	3.4	0.85

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj21.d

Analysis Method: 1633 | Date Collected: 10/30/2024 13:00

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 147.8(mL) | Date Analyzed: 11/04/2024 20:35

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: | % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	90.1		10-130
STL01893	13C5 PFPeA	85.9		35-150
STL02577	13C5 PFHxA	82.1		55-150
STL01892	13C4 PFHpA	90.3		55-150
STL01052	13C8 PFOA	88.4		60-140
STL02578	13C9 PFNA	86.7		55-140
STL02579	13C6 PFDA	73.4		50-140
STL02580	13C7 PFUnA	70.5		30-140
STL02116	13C2 PFTeDA	51.1		10-130
STL02337	13C3 PFBS	95.8		55-150
STL02581	13C3 PFHxS	84.9		55-150
STL01054	13C8 PFOS	76.5		45-140
STL01056	13C8 PFOSA	69.2		30-130
STL02118	d3-NMeFOSAA	67.6		45-200
STL02117	d5-NEtFOSAA	69.9		10-200
STL02395	M2-4:2 FTS	142		60-200
STL02279	M2-6:2 FTS	97.7		60-200
STL02280	M2-8:2 FTS	86.3		50-200
STL02255	13C3 HFPO-DA	83.3		25-160
STL02277	d7-N-MeFOSE-M	61.2		10-150
STL02278	d9-N-EtFOSE-M	55.4		10-150
STL02704	d5-NEtPFOSA	44.6		10-130
STL02705	D3-NMeFOSA	47.7		15-130
STL02703	13C2-PFDoDA	66.2		10-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj22.d

Analysis Method: 1633 | Date Collected: 10/30/2024 14:00

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 104.1(mL) | Date Analyzed: 11/04/2024 20:51

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	11		9.6	2.6
2706-90-3	Perfluoropentanoic acid (PFPeA)	12		4.8	1.2
307-24-4	Perfluorohexanoic acid (PFHxA)	16		2.4	0.60
375-85-9	Perfluoroheptanoic acid (PFHpA)	8.9		2.4	0.60
335-67-1	Perfluorooctanoic acid (PFOA)	21		2.4	0.60
375-95-1	Perfluorononanoic acid (PFNA)	3.3		2.4	0.60
335-76-2	Perfluorodecanoic acid (PFDA)	2.8		2.4	0.60
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.4	U	2.4	0.60
307-55-1	Perfluorododecanoic acid (PFDoA)	2.4	U	2.4	0.60
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	2.4	U	2.4	0.60
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	2.4	U	2.4	0.60
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.4		2.4	0.60
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.74	J	2.4	0.60
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.1	J	2.4	0.62
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.4	U	2.4	0.60
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	8.8		2.4	0.60
68259-12-1	Perfluorononanesulfonic acid (PFNS)	2.4	U	2.4	0.60
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	2.4	U	2.4	0.60
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.6	U	9.6	2.4
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.6	U	9.6	2.4
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.6	U	9.6	2.4
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.4	U	2.4	0.60
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	2.4	U	2.4	0.60
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.4	U	2.4	0.60
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.4	U	2.4	0.74

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj22.d

Analysis Method: 1633 | Date Collected: 10/30/2024 14:00

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 104.1(mL) | Date Analyzed: 11/04/2024 20:51

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.4	U	2.4	0.63
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	24	U	24	6.0
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	24	U	24	6.0
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	9.6	U	9.6	2.4
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.6	U	9.6	2.4
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	4.8	U	4.8	1.2
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.8	U	4.8	1.5
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	9.6	U	9.6	2.4
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	9.6	U	9.6	2.4
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.8	U	4.8	1.2
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	12	U	12	3.0
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	60	U	60	15
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	60	U	60	18
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.4	U	2.4	0.60
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	4.8	U	4.8	1.2

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Matrix: Water | Lab File ID: 2024_11_4RUSHwatinj22.d

Analysis Method: 1633 | Date Collected: 10/30/2024 14:00

Extraction Method: 1633 | Date Extracted: 11/04/2024 07:45

Sample wt/vol: 104.1(mL) | Date Analyzed: 11/04/2024 20:51

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 633860 | Units: ng/L

Preparation Batch No.: 633735 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	84.4		10-130
STL01893	13C5 PFPeA	80.1		35-150
STL02577	13C5 PFHxA	81.3		55-150
STL01892	13C4 PFHpA	86.5		55-150
STL01052	13C8 PFOA	86.3		60-140
STL02578	13C9 PFNA	84.1		55-140
STL02579	13C6 PFDA	73.2		50-140
STL02580	13C7 PFUnA	69.5		30-140
STL02116	13C2 PFTeDA	52.1		10-130
STL02337	13C3 PFBS	93.6		55-150
STL02581	13C3 PFHxS	81.3		55-150
STL01054	13C8 PFOS	70.0		45-140
STL01056	13C8 PFOSA	67.9		30-130
STL02118	d3-NMeFOSAA	67.4		45-200
STL02117	d5-NEtFOSAA	62.6		10-200
STL02395	M2-4:2 FTS	111		60-200
STL02279	M2-6:2 FTS	95.3		60-200
STL02280	M2-8:2 FTS	89.4		50-200
STL02255	13C3 HFPO-DA	80.8		25-160
STL02277	d7-N-MeFOSE-M	62.9		10-150
STL02278	d9-N-EtFOSE-M	57.3		10-150
STL02704	d5-NEtPFOSA	45.4		10-130
STL02705	D3-NMeFOSA	46.6		15-130
STL02703	13C2-PFDoDA	63.4		10-150

METALS

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224998-1

SDG No.:

Project: The Nest Site Analysis - GW

Client Sample ID	Lab Sample ID
RI MW-3	480-224998-1
RI MW-3 DUP	480-224998-2
RI MW-1	480-224998-3
RI MW-2	480-224998-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: RI MW-3 | Lab Sample ID: 480-224998-1
Lab Name: Eurofins Buffalo | Job No.: 480-224998-1
SDG ID.:
Matrix: Water | Date Sampled: 10/30/2024 09:30
Reporting Basis: WET | Date Received: 10/30/2024 15:55
Preparation Batch Number: 730665 | Instrument ID: ICAP3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7429-90-5	Aluminum	0.20	0.20	0.060	mg/L	U		1	6010C	
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C	
7440-38-2	Arsenic	0.015	0.015	0.0056	mg/L	U		1	6010C	
7440-39-3	Barium	0.050	0.0020	0.00070	mg/L			1	6010C	
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C	
7440-43-9	Cadmium	0.0044	0.0020	0.00050	mg/L			1	6010C	
7440-70-2	Calcium	120	0.50	0.10	mg/L			1	6010C	
7440-47-3	Chromium	0.0019	0.0040	0.0010	mg/L	J		1	6010C	
7440-48-4	Cobalt	0.00089	0.0040	0.00063	mg/L	J		1	6010C	
7440-50-8	Copper	0.010	0.010	0.0016	mg/L	U		1	6010C	
7439-89-6	Iron	0.050	0.050	0.019	mg/L	U		1	6010C	
7439-92-1	Lead	0.010	0.010	0.0030	mg/L	U		1	6010C	
7439-95-4	Magnesium	33.1	0.20	0.043	mg/L			1	6010C	
7439-96-5	Manganese	0.0030 UJ ~~0.0025~~	0.0030	0.00040	mg/L	J	B	1	6010C	UJ
7440-02-0	Nickel	0.0027	0.010	0.0013	mg/L	J		1	6010C	
7440-09-7	Potassium	19.1	0.50	0.10	mg/L			1	6010C	
7782-49-2	Selenium	0.025	0.025	0.0087	mg/L	U		1	6010C	
7440-22-4	Silver	0.0060	0.0060	0.0017	mg/L	U		1	6010C	
7440-23-5	Sodium	267	1.0	0.32	mg/L			1	6010C	
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C	
7440-62-2	Vanadium	0.0050	0.0050	0.0015	mg/L	U		1	6010C	
7440-66-6	Zinc	1.4	0.010	0.0015	mg/L		B F1	1	6010C	J+
7439-97-6	Mercury	0.00020	0.00020	0.000042	mg/L	U		1	7470A	

MKP 12/17/2024

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: RI MW-3 DUP
Lab Sample ID: 480-224998-2
Lab Name: Eurofins Buffalo
Job No.: 480-224998-1
SDG ID.:
Matrix: Water
Date Sampled: 10/30/2024 10:30
Reporting Basis: WET
Date Received: 10/30/2024 15:55
Preparation Batch Number: 730665
Instrument ID: ICAP3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.20	0.20	0.060	mg/L	U		1	6010C
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C
7440-38-2	Arsenic	0.015	0.015	0.0056	mg/L	U		1	6010C
7440-39-3	Barium	0.048	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C
7440-43-9	Cadmium	0.0043	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	117	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0015	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	0.00063	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.010	0.010	0.0016	mg/L	U		1	6010C
7439-89-6	Iron	0.033	0.050	0.019	mg/L	J		1	6010C
7439-92-1	Lead	0.0044	0.010	0.0030	mg/L	J		1	6010C
7439-95-4	Magnesium	32.2	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.0030 UJ ~~0.0027~~	0.0030	0.00040	mg/L	J	B	1	6010C
7440-02-0	Nickel	0.0030	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	18.8	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.025	0.025	0.0087	mg/L	U		1	6010C
7440-22-4	Silver	0.0060	0.0060	0.0017	mg/L	U		1	6010C
7440-23-5	Sodium	263	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C
7440-62-2	Vanadium	0.0050	0.0050	0.0015	mg/L	U		1	6010C
7440-66-6	Zinc	1.4	0.010	0.0015	mg/L		B	1	6010C
7439-97-6	Mercury	0.00020	0.00020	0.000042	mg/L	U		1	7470A

UJ

MKP 12/17/2024

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: RI MW-1 | Lab Sample ID: 480-224998-3

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG ID.:

Matrix: Water | Date Sampled: 10/30/2024 13:00

Reporting Basis: WET | Date Received: 10/30/2024 15:55

Preparation Batch Number: 730665 | Instrument ID: ICAP3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.20	0.20	0.060	mg/L	U		1	6010C
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C
7440-38-2	Arsenic	0.015	0.015	0.0056	mg/L	U		1	6010C
7440-39-3	Barium	0.039	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C
7440-43-9	Cadmium	0.0025	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	115	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0027	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	0.00076	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.0018	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	0.050	0.050	0.019	mg/L	U		1	6010C
7439-92-1	Lead	0.010	0.010	0.0030	mg/L	U		1	6010C
7439-95-4	Magnesium	22.3	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.012	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.0026	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	22.8	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.025	0.025	0.0087	mg/L	U		1	6010C
7440-22-4	Silver	0.0060	0.0060	0.0017	mg/L	U		1	6010C
7440-23-5	Sodium	297	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C
7440-62-2	Vanadium	0.0050	0.0050	0.0015	mg/L	U		1	6010C
7440-66-6	Zinc	0.52	0.010	0.0015	mg/L		B	1	6010C
7439-97-6	Mercury	0.00020	0.00020	0.000042	mg/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: RI MW-2 | Lab Sample ID: 480-224998-4

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG ID.:

Matrix: Water | Date Sampled: 10/30/2024 14:00

Reporting Basis: WET | Date Received: 10/30/2024 15:55

Preparation Batch Number: 730665 | Instrument ID: ICAP3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.20	0.20	0.060	mg/L	U		1	6010C
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C
7440-38-2	Arsenic	0.015	0.015	0.0056	mg/L	U		1	6010C
7440-39-3	Barium	0.037	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C
7440-43-9	Cadmium	0.0020	0.0020	0.00050	mg/L	U		1	6010C
7440-70-2	Calcium	89.8	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0040	0.0040	0.0010	mg/L	U		1	6010C
7440-48-4	Cobalt	0.00075	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.010	0.010	0.0016	mg/L	U		1	6010C
7439-89-6	Iron	0.050	0.050	0.019	mg/L	U		1	6010C
7439-92-1	Lead	0.010	0.010	0.0030	mg/L	U		1	6010C
7439-95-4	Magnesium	20.3	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.053	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.0034	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	18.2	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.025	0.025	0.0087	mg/L	U		1	6010C
7440-22-4	Silver	0.0060	0.0060	0.0017	mg/L	U		1	6010C
7440-23-5	Sodium	345	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C
7440-62-2	Vanadium	0.0050	0.0050	0.0015	mg/L	U		1	6010C
7440-66-6	Zinc	0.34	0.010	0.0015	mg/L		B	1	6010C
7439-97-6	Mercury	0.00020	0.00020	0.000042	mg/L	U		1	7470A

GENERAL CHEMISTRY

No data validation qualifiers were added

MKP 12/17/2024

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224998-1

SDG No.:

Project: The Nest Site Analysis - GW

Client Sample ID	Lab Sample ID
RI MW-3	480-224998-1
RI MW-3 DUP	480-224998-2
RI MW-1	480-224998-3
RI MW-2	480-224998-4

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RI MW-3
Lab Sample ID: 480-224998-1
Lab Name: Eurofins Buffalo
Job No.: 480-224998-1
SDG ID.:
Matrix: Water
Date Sampled: 10/30/2024 09:30
Reporting Basis: WET
Date Received: 10/30/2024 15:55
Preparation Batch Number:
Instrument ID: Skalar_San+

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0041	0.010	0.0041	mg/L	J		1	335.4
18540-29-9	Chromium, hexavalent	0.010	0.010	0.0050	mg/L	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RI MW-3 DUP
Lab Sample ID: 480-224998-2
Lab Name: Eurofins Buffalo
Job No.: 480-224998-1
SDG ID.:
Matrix: Water
Date Sampled: 10/30/2024 10:30
Reporting Basis: WET
Date Received: 10/30/2024 15:55
Preparation Batch Number:
Instrument ID: Skalar_San+

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.010	0.010	0.0041	mg/L	U		1	335.4
18540-29-9	Chromium, hexavalent	0.010	0.010	0.0050	mg/L	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RI MW-1
Lab Sample ID: 480-224998-3
Lab Name: Eurofins Buffalo
Job No.: 480-224998-1
SDG ID.:
Matrix: Water
Date Sampled: 10/30/2024 13:00
Reporting Basis: WET
Date Received: 10/30/2024 15:55
Preparation Batch Number:
Instrument ID: Skalar_San+

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0057	0.010	0.0041	mg/L	J		1	335.4
18540-29-9	Chromium, hexavalent	0.010	0.010	0.0050	mg/L	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RI MW-2
Lab Sample ID: 480-224998-4
Lab Name: Eurofins Buffalo
Job No.: 480-224998-1
SDG ID.:
Matrix: Water
Date Sampled: 10/30/2024 14:00
Reporting Basis: WET
Date Received: 10/30/2024 15:55
Preparation Batch Number:
Instrument ID: Skalar_San+

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.010	0.010	0.0041	mg/L	U		1	335.4
18540-29-9	Chromium, hexavalent	0.010	0.010	0.0050	mg/L	U		1	7196A

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

Client Contact: Jacob Cox	Sampler: Jacob Cox	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-199808-41206.1
Company: Brydges Engineering in Environment & Energy DPC	Phone: 716 418 8192	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Address: 960 Busti Ave Suite B-150	PWSID:	Due Date Requested:		Job #:
City: Buffalo		TAT Requested (days): Standard		
State, Zip: NY, 14213		Compliance Project: Δ Yes Δ No		
Phone:		PO #: Purchase Order not required		
Email: jcox@be3corp.com		WO #:		
Project Name: The Nest Site GW Analysis		Project #: 48028073		
Site: Nest		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)	1633 - 1633 Standard List of 40	8082A - 8082A-DER-10 PCBs	8081B - 8081B-DER-10 Pesticides	8270D - TCL SVOCs	8270D_SIM_MS_ID - 1,4 Dioxane	8260C - TCL + CP-51 VOCs + TICs	8151A - Herbicides - Silvex	6010C, 7470A	Hex Chromium	Cyanide Total (Preserved)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	A	N	N				
RI MW-3	10/30	9:30	G	Water	N		X	X	X	X	X	X	X	X	X	X		NTU < 50
RI MW-3 DUP	10/30	10:30	G	Water	N		X	X	X	X	X	X	X	X	X	X		NTU < 50 Duplicate
RI MW-3 MS	10/30	11:00	G	Water	N	Y	X	X	X	X	X	X	X	X	X	X		NTU < 50 Mat. Spike
RI MW-3 MSD	10/30	12:00	G	Water	N	Y	X	X	X	X	X	X	X	X	X	X		NTU < 50 Mat spike dup.
RI MW-1	10/30	1300	G	Water	N		X	X	X	X	X	X	X	X	X	X		NTU < 50
RI MW-2	10/30	1400	G	Water	N		X	X	X	X	X	X	X	X	X	X		NTU > 100 please filter
				Water														

Other:

Preservation Codes:
N - None
A - HCL

Special Instructions/Note:

480-224998 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify) Cat B

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: Jacob Cox	Date/Time: 10/30 1555	Company: BE3	Received by: KS	Date/Time: 10-30-24 1555	Company: TAB	
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: 3.0, 2.2, 2.8, 3.3 IR#5C

Ver: 05/06/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

57/59

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90164.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-224998-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/12/2024			
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: The Nest Site Analysis GW	Project #: 48028073			
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_SPE 1633 Standard List of 40	1633_DRAFT_TSS/ Percent Suspend Solids for Analysis PFAS	Total Number of containers	Special Instructions/Note:
			Preservation Code:							PFAS R081-05
RI MW-3 (480-224998-1)	10/30/24	09:30 Eastern	G	Water			X	X	3	
RI MW-3 (480-224998-1MS)	10/30/24	09:30 Eastern	G	Water			X	X	3	
RI MW-3 (480-224998- MSD)	10/30/24	09:30 Eastern	G	Water			X	X	3	
RI MW-3 DUP (480-224998-2)	10/30/24	10:30 Eastern	G	Water			X	X	3	
RI MW-1 (480-224998-3)	10/30/24	13:00 Eastern	G	Water			X	X	3	
RI MW-2 (480-224998-4)	10/30/24	14:00 Eastern	G	Water			X	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
VS	10-31-24 1600		KATHARINE MARTIN	11/1/24 930	EUR
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:

Appendix B

Laboratory QC Documentation

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8694.d

Lab ID: 480-224998-1 MS Client ID: RI MW-3 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	1.0 U	36.4	146	73-126	F1
1,1,2,2-Tetrachloroethane	25.0	1.0 U	23.4	93	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	1.0 U	30.7	123	61-148	
1,1,2-Trichloroethane	25.0	1.0 U	24.7	99	76-122	
1,1-Dichloroethane	25.0	1.0 U	28.1	112	77-120	
1,1-Dichloroethene	25.0	1.0 U	30.4	122	66-127	
1,2,4-Trichlorobenzene	25.0	1.0 U	29.7	119	79-122	
1,2,4-Trimethylbenzene	25.0	1.0 U	28.0	112	76-121	
1,2-Dibromo-3-Chloropropane	25.0	1.0 U	29.4	118	56-134	
1,2-Dichlorobenzene	25.0	1.0 U	27.1	108	80-124	
1,2-Dichloroethane	25.0	1.0 U	31.2	125	75-120	F1
1,2-Dichloropropane	25.0	1.0 U	24.6	98	76-120	
1,3,5-Trimethylbenzene	25.0	1.0 U	28.1	113	77-121	
1,3-Dichlorobenzene	25.0	1.0 U	26.5	106	77-120	
1,4-Dichlorobenzene	25.0	1.0 U	26.0	104	78-124	
2-Butanone (MEK)	125	10 U	128	102	57-140	
2-Hexanone	125	5.0 U	127	101	65-127	
4-Isopropyltoluene	25.0	1.0 U	28.9	116	73-120	
4-Methyl-2-pentanone (MIBK)	125	5.0 U	125	100	71-125	
Acetone	125	10 U	135	108	56-142	
Benzene	25.0	1.0 U	26.8	107	71-124	
Bromoform	25.0	1.0 U	30.8	123	61-132	
Bromomethane	25.0	1.0 U	32.2	129	55-144	
Carbon disulfide	25.0	1.0 U	26.0	104	59-134	
Carbon tetrachloride	25.0	1.0 U	38.1	152	72-134	F1
Chlorobenzene	25.0	1.0 U	27.2	109	80-120	
Dibromochloromethane	25.0	1.0 U	31.1	124	75-125	
Chloroethane	25.0	1.0 U	29.3	117	69-136	
Chloroform	25.0	2.3	32.4	121	73-127	
Chloromethane	25.0	1.0 U	24.0	96	68-124	
cis-1,2-Dichloroethene	25.0	1.0 U	29.1	116	74-124	
Cyclohexane	25.0	1.0 U	25.0	100	59-135	
Bromodichloromethane	25.0	1.0 U	32.5	130	80-122	F1
Dichlorodifluoromethane	25.0	1.0 U	26.9	108	59-135	
Ethylbenzene	25.0	1.0 U	27.9	112	77-123	
1,2-Dibromoethane	25.0	1.0 U	27.4	110	77-120	
Isopropylbenzene	25.0	1.0 U	28.1	112	77-122	
Methyl acetate	50.0	2.5 U	47.5	95	74-133	
Methyl tert-butyl ether	25.0	1.0 U	28.4	114	77-120	
Methylcyclohexane	25.0	1.0 U	27.6	110	68-134	
Methylene Chloride	25.0	1.0 U	27.3	109	75-124	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8694.d

Lab ID: 480-224998-1 MS Client ID: RI MW-3 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m,p-Xylene	25.0	2.0 U	28.1	112	76-122	
Naphthalene	25.0	1.0 U	29.9	120	66-125	
n-Butylbenzene	25.0	1.0 U	27.3	109	71-128	
N-Propylbenzene	25.0	1.0 U	26.3	105	75-127	
o-Xylene	25.0	1.0 U	29.1	116	76-122	
sec-Butylbenzene	25.0	1.0 U	27.6	110	74-127	
Tetrachloroethene	25.0	12	42.3	122	74-122	
Toluene	25.0	1.0 U	26.0	104	80-122	
trans-1,2-Dichloroethene	25.0	1.0 U	30.5	122	73-127	
trans-1,3-Dichloropropene	25.0	1.0 U	27.4	110	80-120	
Trichloroethene	25.0	3.5	33.8	121	74-123	
Trichlorofluoromethane	25.0	1.0 U	40.7	163	62-150	F1
Vinyl chloride	25.0	1.0 U	27.9	112	65-133	
cis-1,3-Dichloropropene	25.0	1.0 U	26.4	106	74-124	
Styrene	25.0	1.0 U	27.5	110	80-120	
tert-Butylbenzene	25.0	1.0 U	29.0	116	75-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8695.d

Lab ID: 480-224998-1 MSD Client ID: RI MW-3 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	36.2	145	0	15	73-126	F1
1,1,2,2-Tetrachloroethane	25.0	22.3	89	5	15	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.2	121	1	20	61-148	
1,1,2-Trichloroethane	25.0	24.7	99	0	15	76-122	
1,1-Dichloroethane	25.0	27.6	110	2	20	77-120	
1,1-Dichloroethene	25.0	30.4	122	0	16	66-127	
1,2,4-Trichlorobenzene	25.0	30.0	120	1	20	79-122	
1,2,4-Trimethylbenzene	25.0	27.4	109	2	20	76-121	
1,2-Dibromo-3-Chloropropane	25.0	29.2	117	1	15	56-134	
1,2-Dichlorobenzene	25.0	27.1	108	0	20	80-124	
1,2-Dichloroethane	25.0	31.4	125	1	20	75-120	F1
1,2-Dichloropropane	25.0	24.3	97	1	20	76-120	
1,3,5-Trimethylbenzene	25.0	27.3	109	3	20	77-121	
1,3-Dichlorobenzene	25.0	26.0	104	2	20	77-120	
1,4-Dichlorobenzene	25.0	25.5	102	2	20	78-124	
2-Butanone (MEK)	125	124	99	3	20	57-140	
2-Hexanone	125	124	99	2	15	65-127	
4-Isopropyltoluene	25.0	28.6	114	1	20	73-120	
4-Methyl-2-pentanone (MIBK)	125	121	97	3	35	71-125	
Acetone	125	131	105	3	15	56-142	
Benzene	25.0	26.7	107	0	13	71-124	
Bromoform	25.0	29.7	119	4	15	61-132	
Bromomethane	25.0	32.1	128	0	15	55-144	
Carbon disulfide	25.0	25.6	103	2	15	59-134	
Carbon tetrachloride	25.0	37.7	151	1	15	72-134	F1
Chlorobenzene	25.0	26.8	107	1	25	80-120	
Dibromochloromethane	25.0	30.5	122	2	15	75-125	
Chloroethane	25.0	29.3	117	0	15	69-136	
Chloroform	25.0	32.2	120	1	20	73-127	
Chloromethane	25.0	24.0	96	0	15	68-124	
cis-1,2-Dichloroethene	25.0	29.6	118	2	15	74-124	
Cyclohexane	25.0	25.1	100	0	20	59-135	
Bromodichloromethane	25.0	31.8	127	2	15	80-122	F1
Dichlorodifluoromethane	25.0	26.0	104	4	20	59-135	
Ethylbenzene	25.0	27.9	111	0	15	77-123	
1,2-Dibromoethane	25.0	26.7	107	3	15	77-120	
Isopropylbenzene	25.0	27.8	111	1	20	77-122	
Methyl acetate	50.0	46.5	93	2	20	74-133	
Methyl tert-butyl ether	25.0	28.4	114	0	37	77-120	
Methylcyclohexane	25.0	27.6	110	0	20	68-134	
Methylene Chloride	25.0	26.7	107	2	15	75-124	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8695.d

Lab ID: 480-224998-1 MSD Client ID: RI MW-3 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylene	25.0	28.2	113	0	16	76-122	
Naphthalene	25.0	29.6	118	1	20	66-125	
n-Butylbenzene	25.0	27.2	109	0	15	71-128	
N-Propylbenzene	25.0	25.6	102	3	15	75-127	
o-Xylene	25.0	28.5	114	2	16	76-122	
sec-Butylbenzene	25.0	26.9	107	3	15	74-127	
Tetrachloroethene	25.0	44.8	132	6	20	74-122	F1
Toluene	25.0	26.0	104	0	15	80-122	
trans-1,2-Dichloroethene	25.0	30.3	121	1	20	73-127	
trans-1,3-Dichloropropene	25.0	27.3	109	0	15	80-120	
Trichloroethene	25.0	33.6	120	0	16	74-123	
Trichlorofluoromethane	25.0	40.2	161	1	20	62-150	F1
Vinyl chloride	25.0	28.4	114	2	15	65-133	
cis-1,3-Dichloropropene	25.0	27.0	108	2	15	74-124	
Styrene	25.0	27.0	108	2	20	80-120	
tert-Butylbenzene	25.0	28.6	114	1	15	75-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Lab Sample ID: CCVIS 480-730795/4 Calibration Date: 11/01/2024 09:50

Instrument ID: HP5973S Calib Start Date: 10/15/2024 15:49

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/16/2024 11:36

Lab File ID: S3707.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.015	2.190	0.1000	27.2	25.0	8.7	20.0
1,2-Dichloropropane	Ave	1.297	1.298	0.1000	25.0	25.0	0.0	20.0
Dibromomethane	Ave	0.7702	0.7563	0.1000	24.5	25.0	-1.8	20.0
1,4-Dioxane	Ave	0.0087	0.0067		384	500	-23.1	50.0
Bromodichloromethane	Ave	1.375	1.367	0.2000	24.9	25.0	-0.6	20.0
2-Chloroethyl vinyl ether	Ave	0.8306	0.8619		25.9	25.0	3.8	20.0
cis-1,3-Dichloropropene	Ave	1.802	1.859	0.2000	25.8	25.0	3.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.9627	1.113	0.1000	144	125	15.6	20.0
Toluene	Ave	1.683	1.638	0.4000	24.3	25.0	-2.7	20.0
trans-1,3-Dichloropropene	Ave	0.8609	0.9107	0.1000	26.4	25.0	5.8	20.0
Ethyl methacrylate	Ave	0.8459	0.8765		25.9	25.0	3.6	20.0
1,1,2-Trichloroethane	Ave	0.4902	0.4738	0.1000	24.2	25.0	-3.4	20.0
Tetrachloroethene	Ave	0.6534	0.7040	0.2000	26.9	25.0	7.7	20.0
1,3-Dichloropropane	Ave	1.004	1.063		26.5	25.0	5.8	20.0
2-Hexanone	Ave	0.6715	0.8145	0.1000	152	125	21.3*	20.0
Dibromochloromethane	Ave	0.4940	0.5138	0.1000	26.0	25.0	4.0	20.0
1,2-Dibromoethane	Ave	0.5902	0.5692		24.1	25.0	-3.5	20.0
Chlorobenzene	Ave	1.750	1.709	0.5000	24.4	25.0	-2.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5702	0.5650		24.8	25.0	-0.9	20.0
Ethylbenzene	Ave	3.092	3.079	0.1000	24.9	25.0	-0.4	20.0
m,p-Xylene	Ave	1.192	1.169	0.1000	24.5	25.0	-1.9	20.0
o-Xylene	Ave	1.176	1.129	0.3000	24.0	25.0	-4.0	20.0
Styrene	Ave	1.961	1.820	0.3000	23.2	25.0	-7.2	20.0
Bromoform	Ave	0.3219	0.2976	0.1000	23.1	25.0	-7.5	50.0
Isopropylbenzene	Ave	2.745	2.966	0.1000	27.0	25.0	8.1	20.0
Bromobenzene	Ave	0.7451	0.7325		24.6	25.0	-1.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7814	0.8344	0.3000	26.7	25.0	6.8	20.0
N-Propylbenzene	Ave	3.491	3.837		27.5	25.0	9.9	20.0
1,2,3-Trichloropropane	Ave	0.2690	0.2770		25.7	25.0	3.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2931	0.2547		21.7	25.0	-13.1	50.0
2-Chlorotoluene	Ave	0.6792	0.7080		26.1	25.0	4.2	20.0
1,3,5-Trimethylbenzene	Ave	2.518	2.746		27.3	25.0	9.1	20.0
4-Chlorotoluene	Ave	0.7157	0.7486		26.1	25.0	4.6	20.0
tert-Butylbenzene	Ave	0.5525	0.6107		27.6	25.0	10.5	20.0
1,2,4-Trimethylbenzene	Ave	2.601	2.845		27.4	25.0	9.4	20.0
sec-Butylbenzene	Ave	3.116	3.572		28.7	25.0	14.6	20.0
1,3-Dichlorobenzene	Ave	1.418	1.490	0.6000	26.3	25.0	5.1	20.0
4-Isopropyltoluene	Ave	2.778	3.063		27.6	25.0	10.3	20.0
1,4-Dichlorobenzene	Ave	1.455	1.531	0.5000	26.3	25.0	5.2	20.0
n-Butylbenzene	Ave	2.402	2.772		28.8	25.0	15.4	20.0
1,2-Dichlorobenzene	Ave	1.389	1.531	0.4000	27.5	25.0	10.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Lab Sample ID: CCVIS 480-730914/4 Calibration Date: 11/02/2024 10:25

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D8667.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Ave	2.011	1.851	0.1000	23.0	25.0	-8.0	50.0	
Chloromethane	Ave	2.234	1.820	0.1000	20.4	25.0	-18.5	20.0	
Vinyl chloride	Ave	1.376	1.312	0.1000	23.8	25.0	-4.7	20.0	
Butadiene	Ave	1.366	1.336		24.5	25.0	-2.2	20.0	
Bromomethane	Ave	1.041	1.138	0.1000	27.3	25.0	9.3	50.0	
Chloroethane	Ave	0.6918	0.6633	0.1000	24.0	25.0	-4.1	50.0	
Dichlorofluoromethane	Ave	2.243	2.495		27.8	25.0	11.2	20.0	
Trichlorofluoromethane	Ave	1.802	2.383	0.1000	33.1	25.0	32.2*	20.0	
Ethyl ether	Ave	0.8865	0.8349		23.5	25.0	-5.8	20.0	
Acrolein	Ave	0.1426	0.1058		92.8	125	-25.8	50.0	
1,1-Dichloroethene	Ave	1.030	1.015	0.1000	24.6	25.0	-1.5	20.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.151	1.213	0.1000	26.3	25.0	5.4	20.0	
Acetone	Ave	0.5291	0.6067	0.1000	143	125	14.7	50.0	
Iodomethane	Ave	2.496	2.564		25.7	25.0	2.7	20.0	
Carbon disulfide	Ave	3.756	3.259	0.1000	21.7	25.0	-13.2	20.0	
Allyl chloride	Ave	2.273	1.898		20.9	25.0	-16.5	20.0	
Methyl acetate	Ave	1.341	1.153	0.1000	43.0	50.0	-14.0	50.0	
Methylene Chloride	Lin1		1.206	0.1000	23.6	25.0	-5.7	20.0	
2-Methyl-2-propanol	Ave	0.1639	0.1857		283	250	13.4	50.0	
Methyl tert-butyl ether	Ave	3.269	3.325	0.1000	25.4	25.0	1.7	20.0	
trans-1,2-Dichloroethene	Ave	1.176	1.183	0.1000	25.1	25.0	0.6	20.0	
Acrylonitrile	Ave	0.5971	0.5274		221	250	-11.7	20.0	
Hexane	Ave	1.775	1.514		21.3	25.0	-14.7	20.0	
1,1-Dichloroethane	Ave	2.387	2.199	0.2000	23.0	25.0	-7.9	20.0	
Vinyl acetate	Ave	3.106	2.904		46.7	50.0	-6.5	20.0	
2,2-Dichloropropane	Ave	1.287	1.696		32.9	25.0	31.8*	20.0	NT
cis-1,2-Dichloroethene	Ave	1.323	1.296	0.1000	24.5	25.0	-2.0	20.0	
2-Butanone (MEK)	Ave	0.8070	0.7804	0.1000	121	125	-3.3	20.0	
Chlorobromomethane	Ave	0.7697	0.7981		25.9	25.0	3.7	20.0	
Tetrahydrofuran	Ave	0.5811	0.4663		40.1	50.0	-19.8	20.0	
Chloroform	Ave	2.392	2.416	0.2000	25.3	25.0	1.0	20.0	
1,1,1-Trichloroethane	Ave	1.835	2.172	0.1000	29.6	25.0	18.4	20.0	
Cyclohexane	Ave	2.155	1.865	0.1000	21.6	25.0	-13.5	20.0	
Carbon tetrachloride	Ave	1.732	2.102	0.1000	30.3	25.0	21.4*	20.0	
1,1-Dichloropropene	Ave	1.583	1.583		25.0	25.0	0.0	20.0	
Benzene	Ave	4.461	4.044	0.5000	22.7	25.0	-9.4	20.0	
Isobutyl alcohol	Ave	0.0794	0.0748		588	625	-5.9	50.0	
1,2-Dichloroethane	Ave	1.931	2.094	0.1000	27.1	25.0	8.4	20.0	
n-Heptane	Ave	2.186	1.844		21.1	25.0	-15.6	20.0	
Trichloroethene	Ave	1.277	1.291	0.2000	25.3	25.0	1.0	20.0	

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224998-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octadecane	0.5061	0.4724 0.4721	0.4838 0.4618	0.5188	0.5033	Ave		0.4883			0.0100	4.4		20.0			
Pentachlorophenol	0.1136	0.0290 0.1194	0.0414 0.1195	0.0630	0.0842	Lin1	-0.137	0.1207			0.0500	20.7	*	20.0	0.9910		0.9900
Phenanthrene	1.1079 1.1245	1.1425 1.0733	1.0794 1.0802	1.1280	1.1104	Ave		1.1058			0.7000	2.3		20.0			
Anthracene	1.0100 1.1640	1.1017 1.0958	1.0976 1.1031	1.1717	1.1073	Ave		1.1064			0.7000	4.5		20.0			
Carbazole	1.0198	0.9607 0.9741	0.9613 0.9625	1.0153	0.9878	Ave		0.9831			0.0100	2.6		20.0			
Di-n-butyl phthalate	1.3401	1.2259 1.2602	1.2347 1.2239	1.2884	1.2794	Ave		1.2647			0.0100	3.3		20.0			
Fluoranthene	1.1480 1.2450	1.1257 1.1923	1.1381 1.1437	1.2223	1.1765	Ave		1.1740			0.6000	3.7		20.0			
Benzidine	0.9092	0.6844 0.8802	0.7918 0.7978	0.7445	0.7749	Lin2	-0.161	0.8437			0.0100	6.7		20.0	0.9940		0.9900
Pyrene	1.2469 1.4414	1.3480 1.3443	1.3448 1.2800	1.3927	1.3187	Ave		1.3396			0.6000	4.5		20.0			
Butyl benzyl phthalate	0.6766	0.5334 0.6583	0.5785 0.6133	0.6115	0.5969	Lin2	-0.057	0.6427			0.0100	4.3		20.0	0.9980		0.9900
Bis(2-ethylhexyl) phthalate	0.9697	0.7612 0.9196	0.8121 0.8513	0.8962	0.8871	Lin2	-0.081	0.9178			0.0100	4.6		20.0	0.9970		0.9900
3,3'-Dichlorobenzidine	0.6993	0.6153 0.6620	0.6062 0.6210	0.5973	0.6307	Lin2	-0.047	0.6466			0.0100	5.4		20.0	0.9960		0.9900
Benzo(a)anthracene	1.3814 1.4379	1.3782 1.3760	1.3477 1.3087	1.3932	1.3338	Ave		1.3696			0.8000	2.9		20.0			
Chrysene	1.2455 1.2995	1.2671 1.2668	1.2332 1.1868	1.2917	1.2207	Ave		1.2514			0.7000	3.0		20.0			
Di-n-octyl phthalate	1.6104	1.3055 1.5489	1.3993 1.4642	1.5090	1.5011	Lin2	-0.124	1.5483			0.0100	3.3		20.0	0.9990		0.9900
Benzo(b)fluoranthene	1.1028 1.3951	1.2035 1.2554	1.1342 1.2763	1.3187	1.2682	Lin2	-0.025	1.2812			0.7000	5.8		20.0	0.9970		0.9900
Benzo(k)fluoranthene	1.2077 1.2933	1.3562 1.2980	1.2668 1.1984	1.4090	1.2309	Ave		1.2825			0.7000	5.7		20.0			
Benzo(a)pyrene	0.9422 1.2171	1.0964 1.1564	1.0658 1.1055	1.1392	1.1181	Lin2	-0.026	1.1438			0.7000	3.7		20.0	0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Lab Sample ID: CCVIS 480-730787/3 | Calibration Date: 11/01/2024 10:31

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04618.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
1,4-Dioxane	Ave	0.4946	0.5061	0.0100	4090	4000	2.3	20.0	
N-Nitrosodimethylamine	Ave	0.6291	1.242	0.0100	7900	4000	97.4*	50.0	NT
Pyridine	Lin2		0.8134	0.0100	9290	8000	16.2	50.0	
Benzaldehyde	Lin2		1.125	0.0100	4690	4000	17.2	50.0	
Phenol	Ave	1.548	1.535	0.8000	3970	4000	-0.8	20.0	
Aniline	Ave	1.889	1.931	0.0100	4090	4000	2.3	20.0	
Bis(2-chloroethyl)ether	Lin2		1.273	0.7000	3980	4000	-0.4	20.0	
n-Decane	Ave	1.489	1.698	0.0100	4560	4000	14.1	20.0	
2-Chlorophenol	Ave	1.288	1.323	0.8000	4110	4000	2.7	20.0	
1,3-Dichlorobenzene	Ave	1.528	1.562	0.0100	4090	4000	2.2	20.0	
1,4-Dichlorobenzene	Ave	1.565	1.577	0.0100	4030	4000	0.8	20.0	
Benzyl alcohol	Lin2		0.8088	0.0100	3900	4000	-2.5	20.0	
1,2-Dichlorobenzene	Ave	1.468	1.482	0.0100	4040	4000	1.0	20.0	
2-Methylphenol	Ave	1.174	1.212	0.7000	4130	4000	3.2	20.0	
bis (2-chloroisopropyl) ether	Lin2		2.729	0.0100	5560	4000	39.0*	20.0	NT
Indene	Lin2		2.718	0.0100	28900	24000	20.4*	20.0	NT
N-Nitrosodi-n-propylamine	Ave	0.8823	0.9693	0.5000	4390	4000	9.9	20.0	
4-Methylphenol	Ave	1.221	1.235	0.6000	4050	4000	1.2	20.0	
Acetophenone	Ave	1.701	1.820	0.0100	4280	4000	7.0	20.0	
Hexachloroethane	Ave	0.5953	0.7104	0.3000	4770	4000	19.3	20.0	
Nitrobenzene	Ave	0.3721	0.4279	0.2000	4600	4000	15.0	20.0	
Isophorone	Ave	0.6597	0.6998	0.4000	4240	4000	6.1	20.0	
2-Nitrophenol	Lin2		0.1820	0.1000	3910	4000	-2.2	20.0	
2,4-Dimethylphenol	Ave	0.3484	0.3754	0.2000	4310	4000	7.8	20.0	
Bis(2-chloroethoxy)methane	Ave	0.4030	0.3903	0.3000	3870	4000	-3.1	20.0	
Benzoic acid	Lin1		0.1439	0.0100	24200	24000	0.9	50.0	
2,4-Dichlorophenol	Lin2		0.2987	0.2000	3980	4000	-0.5	20.0	
1,2,4-Trichlorobenzene	Ave	0.3390	0.3259	0.0100	3840	4000	-3.9	20.0	
Naphthalene	Ave	1.057	1.015	0.7000	3840	4000	-3.9	20.0	
4-Chloroaniline	Ave	0.4039	0.3993	0.0100	3950	4000	-1.1	20.0	
2,6-Dichlorophenol	Ave	0.2965	0.3020	0.0100	4070	4000	1.9	20.0	
Hexachlorobutadiene	Ave	0.1967	0.2074	0.0100	4220	4000	5.4	20.0	
Caprolactam	Lin2		0.0941	0.0100	3500	4000	-12.5	50.0	
4-Chloro-3-methylphenol	Lin2		0.2942	0.2000	4130	4000	3.1	20.0	
2-Methylnaphthalene	Ave	0.6518	0.6436	0.4000	3950	4000	-1.3	20.0	
1-Methylnaphthalene	Ave	0.6626	0.6466	0.0100	3900	4000	-2.4	20.0	
Hexachlorocyclopentadiene	Lin2		0.1239	0.0500	2250	4000	-43.7*	20.0	
1,2,4,5-Tetrachlorobenzene	Ave	0.5921	0.5414	0.0100	3660	4000	-8.6	20.0	
2,4,6-Trichlorophenol	Lin2		0.3405	0.2000	3780	4000	-5.6	20.0	
2,4,5-Trichlorophenol	Lin2		0.3625	0.2000	3810	4000	-4.6	20.0	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Lab Sample ID: CCVIS 480-730787/3 Calibration Date: 11/01/2024 10:31

Instrument ID: HP5973Y Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/10/2024 18:00

Lab File ID: Y04618.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Biphenyl	Ave	1.467	1.407	0.0100	3840	4000	-4.1	20.0	
2-Chloronaphthalene	Ave	1.173	1.138	0.8000	3880	4000	-3.0	20.0	
2-Nitroaniline	Lin2		0.3987	0.0100	4890	4000	22.2*	20.0	
Dimethyl phthalate	Ave	1.270	1.331	0.0100	4190	4000	4.8	20.0	
1,3-Dinitrobenzene	Lin2		0.1086	0.0100	3890	4000	-2.9	20.0	
2,6-Dinitrotoluene	Lin2		0.2899	0.2000	3970	4000	-0.9	20.0	
Acenaphthylene	Ave	1.772	1.792	0.9000	4040	4000	1.1	20.0	
3-Nitroaniline	Lin2		0.2714	0.0100	3650	4000	-8.6	20.0	
Acenaphthene	Ave	1.186	1.182	0.9000	3980	4000	-0.4	20.0	
2,4-Dinitrophenol	Lin1		0.0929	0.0100	7100	8000	-11.3	20.0	
4-Nitrophenol	Lin2		0.1925	0.0100	12200	8000	52.3*	20.0	
2,4-Dinitrotoluene	Lin2		0.3745	0.2000	3990	4000	-0.2	20.0	
Dibenzofuran	Ave	1.604	1.580	0.8000	3940	4000	-1.5	20.0	
2,3,4,6-Tetrachlorophenol	Lin2		0.2231	0.0100	3380	4000	-15.4	20.0	
Hexadecane	Ave	0.7970	0.9461	0.0100	4750	4000	18.7	20.0	
Diethyl phthalate	Ave	1.255	1.398	0.0100	4460	4000	11.4	20.0	
4-Chlorophenyl phenyl ether	Ave	0.6339	0.6019	0.4000	3800	4000	-5.0	20.0	
Fluorene	Lin2		1.305	0.9000	3860	4000	-3.4	20.0	
4-Nitroaniline	Lin2		0.3047	0.0100	3830	4000	-4.1	20.0	
4,6-Dinitro-2-methylphenol	Lin1		0.1103	0.0100	7980	8000	-0.2	20.0	
Diphenylamine	Ave	0.6472	0.6238	0.0100	3300	3420	-3.6	20.0	
N-Nitrosodiphenylamine	Ave	0.5533	0.5334	0.0100	3860	4000	-3.6	20.0	
1,2-Diphenylhydrazine	Ave	0.7367	0.9604	0.0100	5210	4000	30.4*	20.0	NT
trans-Azobenzene	Ave	0.7367	0.9604	0.0100	5210	4000	30.4*	20.0	NT
4-Bromophenyl phenyl ether	Ave	0.2258	0.1988	0.1000	3520	4000	-12.0	20.0	
Hexachlorobenzene	Ave	0.2431	0.1939	0.1000	3190	4000	-20.3*	20.0	
Atrazine	Lin2		0.3650	0.0100	4450	4000	11.1	20.0	
n-Octadecane	Ave	0.4883	0.5915	0.0100	4840	4000	21.1*	20.0	NT
Pentachlorophenol	Lin1		0.0661	0.0500	5510	8000	-31.1	50.0	
Phenanthrene	Ave	1.106	1.091	0.7000	3950	4000	-1.4	20.0	
Anthracene	Ave	1.106	1.124	0.7000	4060	4000	1.6	20.0	
Carbazole	Ave	0.9831	0.9423	0.0100	3830	4000	-4.1	20.0	
Di-n-butyl phthalate	Ave	1.265	1.366	0.0100	4320	4000	8.0	20.0	
Fluoranthene	Ave	1.174	1.172	0.6000	3990	4000	-0.2	20.0	
Benzidine	Lin2		0.7791	0.0100	7580	8000	-5.3	50.0	
Pyrene	Ave	1.340	1.376	0.6000	4110	4000	2.7	20.0	
Butyl benzyl phthalate	Lin2		0.7458	0.0100	4730	4000	18.3	20.0	
Bis(2-ethylhexyl) phthalate	Lin2		1.107	0.0100	4910	4000	22.8*	20.0	
3,3'-Dichlorobenzidine	Lin2		0.5801	0.0100	7250	8000	-9.4	50.0	
Benzo(a)anthracene	Ave	1.370	1.332	0.8000	3890	4000	-2.8	20.0	
Chrysene	Ave	1.251	1.231	0.7000	3930	4000	-1.7	20.0	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Lab Sample ID: CCVIS 480-731032/3 Calibration Date: 11/04/2024 10:32

Instrument ID: HP5973Y Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/10/2024 18:00

Lab File ID: Y04618.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
1,4-Dioxane	Ave	0.4946	0.5068	0.0100	4100	4000	2.5	20.0	
N-Nitrosodimethylamine	Ave	0.6291	1.302	0.0100	8280	4000	107.0*	50.0	NT
Pyridine	Lin2		0.8554	0.0100	9760	8000	22.0	50.0	
Benzaldehyde	Lin2		1.127	0.0100	4700	4000	17.4	50.0	
Phenol	Ave	1.548	1.444	0.8000	3730	4000	-6.7	20.0	
Aniline	Ave	1.889	1.803	0.0100	3820	4000	-4.5	20.0	
Bis(2-chloroethyl)ether	Lin2		1.297	0.7000	4060	4000	1.5	20.0	
n-Decane	Ave	1.489	1.627	0.0100	4370	4000	9.3	20.0	
2-Chlorophenol	Ave	1.288	1.305	0.8000	4050	4000	1.3	20.0	
1,3-Dichlorobenzene	Ave	1.528	1.530	0.0100	4000	4000	0.1	20.0	
1,4-Dichlorobenzene	Ave	1.565	1.553	0.0100	3970	4000	-0.8	20.0	
Benzyl alcohol	Lin2		0.7803	0.0100	3760	4000	-5.9	20.0	
1,2-Dichlorobenzene	Ave	1.468	1.460	0.0100	3980	4000	-0.5	20.0	
2-Methylphenol	Ave	1.174	1.239	0.7000	4220	4000	5.5	20.0	
bis (2-chloroisopropyl) ether	Lin2		2.732	0.0100	5560	4000	39.1*	20.0	NT
Indene	Lin2		2.707	0.0100	28800	24000	19.8	20.0	
N-Nitrosodi-n-propylamine	Ave	0.8823	0.9723	0.5000	4410	4000	10.2	20.0	
4-Methylphenol	Ave	1.221	1.233	0.6000	4040	4000	1.1	20.0	
Acetophenone	Ave	1.701	1.872	0.0100	4400	4000	10.0	20.0	
Hexachloroethane	Ave	0.5953	0.7141	0.3000	4800	4000	19.9	20.0	
Nitrobenzene	Ave	0.3721	0.4287	0.2000	4610	4000	15.2	20.0	
Isophorone	Ave	0.6597	0.6852	0.4000	4150	4000	3.9	20.0	
2-Nitrophenol	Lin2		0.1850	0.1000	3970	4000	-0.7	20.0	
2,4-Dimethylphenol	Ave	0.3484	0.3721	0.2000	4270	4000	6.8	20.0	
Bis(2-chloroethoxy)methane	Ave	0.4030	0.3809	0.3000	3780	4000	-5.5	20.0	
Benzoic acid	Lin1		0.1563	0.0100	25700	24000	7.3	50.0	
2,4-Dichlorophenol	Lin2		0.2888	0.2000	3850	4000	-3.8	20.0	
1,2,4-Trichlorobenzene	Ave	0.3390	0.3365	0.0100	3970	4000	-0.7	20.0	
Naphthalene	Ave	1.057	1.021	0.7000	3870	4000	-3.3	20.0	
4-Chloroaniline	Ave	0.4039	0.3799	0.0100	3760	4000	-5.9	20.0	
2,6-Dichlorophenol	Ave	0.2965	0.2956	0.0100	3990	4000	-0.3	20.0	
Hexachlorobutadiene	Ave	0.1967	0.1996	0.0100	4060	4000	1.5	20.0	
Caprolactam	Lin2		0.0960	0.0100	3570	4000	-10.8	50.0	
4-Chloro-3-methylphenol	Lin2		0.2811	0.2000	3940	4000	-1.4	20.0	
2-Methylnaphthalene	Ave	0.6518	0.6191	0.4000	3800	4000	-5.0	20.0	
1-Methylnaphthalene	Ave	0.6626	0.6438	0.0100	3890	4000	-2.8	20.0	
Hexachlorocyclopentadiene	Lin2		0.1278	0.0500	2310	4000	-42.2*	20.0	
1,2,4,5-Tetrachlorobenzene	Ave	0.5921	0.5756	0.0100	3890	4000	-2.8	20.0	
2,4,6-Trichlorophenol	Lin2		0.3390	0.2000	3760	4000	-6.0	20.0	
2,4,5-Trichlorophenol	Lin2		0.3746	0.2000	3940	4000	-1.6	20.0	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Lab Sample ID: CCVIS 480-731032/3 | Calibration Date: 11/04/2024 10:32

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04618.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Biphenyl	Ave	1.467	1.411	0.0100	3850	4000	-3.9	20.0	
2-Chloronaphthalene	Ave	1.173	1.148	0.8000	3920	4000	-2.1	20.0	
2-Nitroaniline	Lin2		0.4139	0.0100	5070	4000	26.7*	20.0	
Dimethyl phthalate	Ave	1.270	1.302	0.0100	4100	4000	2.5	20.0	
1,3-Dinitrobenzene	Lin2		0.1083	0.0100	3880	4000	-3.1	20.0	
2,6-Dinitrotoluene	Lin2		0.2750	0.2000	3770	4000	-5.8	20.0	
Acenaphthylene	Ave	1.772	1.731	0.9000	3910	4000	-2.3	20.0	
3-Nitroaniline	Lin2		0.2531	0.0100	3420	4000	-14.5	20.0	
Acenaphthene	Ave	1.186	1.164	0.9000	3920	4000	-1.9	20.0	
2,4-Dinitrophenol	Lin1		0.0952	0.0100	7220	8000	-9.7	20.0	
4-Nitrophenol	Lin2		0.1903	0.0100	12100	8000	50.7*	20.0	
2,4-Dinitrotoluene	Lin2		0.3910	0.2000	4160	4000	4.0	20.0	
Dibenzofuran	Ave	1.604	1.544	0.8000	3850	4000	-3.8	20.0	
2,3,4,6-Tetrachlorophenol	Lin2		0.2367	0.0100	3580	4000	-10.6	20.0	
Hexadecane	Ave	0.7970	0.9232	0.0100	4630	4000	15.8	20.0	
Diethyl phthalate	Ave	1.255	1.450	0.0100	4620	4000	15.6	20.0	
4-Chlorophenyl phenyl ether	Ave	0.6339	0.5905	0.4000	3730	4000	-6.8	20.0	
Fluorene	Lin2		1.299	0.9000	3850	4000	-3.9	20.0	
4-Nitroaniline	Lin2		0.3058	0.0100	3850	4000	-3.8	20.0	
4,6-Dinitro-2-methylphenol	Lin1		0.1021	0.0100	7450	8000	-6.9	20.0	
Diphenylamine	Ave	0.6472	0.6282	0.0100	3320	3420	-2.9	20.0	
N-Nitrosodiphenylamine	Ave	0.5533	0.5371	0.0100	3880	4000	-2.9	20.0	
1,2-Diphenylhydrazine	Ave	0.7367	0.9661	0.0100	5250	4000	31.1*	20.0	NT
trans-Azobenzene	Ave	0.7367	0.9661	0.0100	5250	4000	31.1*	20.0	NT
4-Bromophenyl phenyl ether	Ave	0.2258	0.2027	0.1000	3590	4000	-10.2	20.0	
Hexachlorobenzene	Ave	0.2431	0.2138	0.1000	3520	4000	-12.1	20.0	
Atrazine	Lin2		0.3547	0.0100	4320	4000	8.0	20.0	
n-Octadecane	Ave	0.4883	0.5644	0.0100	4620	4000	15.6	20.0	
Pentachlorophenol	Lin1		0.0678	0.0500	5630	8000	-29.7	50.0	
Phenanthrene	Ave	1.106	1.110	0.7000	4010	4000	0.3	20.0	
Anthracene	Ave	1.106	1.120	0.7000	4050	4000	1.2	20.0	
Carbazole	Ave	0.9831	0.9344	0.0100	3800	4000	-5.0	20.0	
Di-n-butyl phthalate	Ave	1.265	1.383	0.0100	4370	4000	9.3	20.0	
Fluoranthene	Ave	1.174	1.127	0.6000	3840	4000	-4.0	20.0	
Benzidine	Lin2		0.6433	0.0100	6290	8000	-21.4	50.0	
Pyrene	Ave	1.340	1.371	0.6000	4090	4000	2.3	20.0	
Butyl benzyl phthalate	Lin2		0.7380	0.0100	4680	4000	17.0	20.0	
Bis(2-ethylhexyl) phthalate	Lin2		1.085	0.0100	4820	4000	20.5*	20.0	
3,3'-Dichlorobenzidine	Lin2		0.6038	0.0100	7540	8000	-5.7	50.0	
Benzo(a)anthracene	Ave	1.370	1.358	0.8000	3970	4000	-0.8	20.0	
Chrysene	Ave	1.251	1.235	0.7000	3950	4000	-1.3	20.0	

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-3 Lab Sample ID: 480-224998-1

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 11/06/2024 10:24 Date Analyzed (2): 11/06/2024 10:24

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Endosulfan II	1		5.94	5.93	5.99	0.013		117.8
	2		6.85	6.81	6.87	0.049		
4,4'-DDT	1		6.06	6.05	6.11	0.024		18.6
	2		7.04	7.00	7.06	0.029		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-1 Lab Sample ID: 480-224998-3

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 11/06/2024 11:03 Date Analyzed (2): 11/06/2024 11:03

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
delta-BHC	1		3.72	3.71	3.77	0.011		7.3
	2		4.51	4.48	4.54	0.010		
4,4'-DDE	1		5.18	5.15	5.21	0.013		30.4
	2		6.06	6.06	6.12	0.017		
Endosulfan II	1		5.94	5.93	5.99	0.014		113.9
	2		6.85	6.81	6.87	0.052		
4,4'-DDT	1		6.06	6.05	6.11	0.041		10.8
	2		7.04	7.00	7.06	0.045		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Client Sample ID: RI MW-2 Lab Sample ID: 480-224998-4

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 11/06/2024 11:23 Date Analyzed (2): 11/06/2024 11:23

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Lindane	1		3.50	3.47	3.53	0.010		30.1
	2		4.12	4.08	4.14	0.014		
Endosulfan II	1		5.94	5.93	5.99	0.026		26.8
	2		6.85	6.81	6.87	0.035		
4,4'-DDT	1		6.06	6.05	6.11	0.018		12.4
	2		7.04	7.00	7.06	0.021		

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224998-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-731202/1-A

Matrix: Water | Lab File ID: 5_75215.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 11/05/2024 09:19

Sample wt/vol: 250(mL) | Date Analyzed: 11/06/2024 09:07

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731303 | Units: ug/L

Preparation Batch No.: 731202 | Instrument ID: HP6890-5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.050	U	0.050	0.0092
72-55-9	4,4'-DDE	0.050	U	0.050	0.012
50-29-3	4,4'-DDT	0.0248	J	0.050	0.011
309-00-2	Aldrin	0.050	U	0.050	0.0081
319-84-6	alpha-BHC	0.050	U	0.050	0.0077
5103-71-9	Chlordane (.alpha.)	0.050	U	0.050	0.015
319-85-7	beta-BHC	0.050	U	0.050	0.025
319-86-8	delta-BHC	0.0117	J	0.050	0.010
60-57-1	Dieldrin	0.050	U	0.050	0.0098
959-98-8	Endosulfan I	0.050	U	0.050	0.011
33213-65-9	Endosulfan II	0.0244	J	0.050	0.012
1031-07-8	Endosulfan sulfate	0.050	U	0.050	0.016
72-20-8	Endrin	0.050	U	0.050	0.014
58-89-9	Lindane	0.00858	J	0.050	0.0080
76-44-8	Heptachlor	0.050	U	0.050	0.0085

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	61		10-120
877-09-8	Tetrachloro-m-xylene	68		10-120

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-730616/1-B

Instrument Code: ICAP3 Batch No.: 731161

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	0.20	U		6010C
7440-36-0	Antimony	0.020	U		6010C
7440-38-2	Arsenic	0.015	U		6010C
7440-39-3	Barium	0.0020	U		6010C
7440-41-7	Beryllium	0.0020	U		6010C
7440-43-9	Cadmium	0.0020	U		6010C
7440-70-2	Calcium	0.50	U		6010C
7440-47-3	Chromium	0.0040	U		6010C
7440-48-4	Cobalt	0.0040	U		6010C
7440-50-8	Copper	0.010	U		6010C
7439-89-6	Iron	0.050	U		6010C
7439-92-1	Lead	0.010	U		6010C
7439-95-4	Magnesium	0.20	U		6010C
7439-96-5	Manganese	0.000733	J		6010C
7440-02-0	Nickel	0.010	U		6010C
7440-09-7	Potassium	0.50	U		6010C
7782-49-2	Selenium	0.025	U		6010C
7440-22-4	Silver	0.0060	U		6010C
7440-23-5	Sodium	1.0	U		6010C
7440-28-0	Thallium	0.020	U		6010C
7440-62-2	Vanadium	0.0050	U		6010C
7440-66-6	Zinc	0.00921	J		6010C

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: RI MW-3 MSD Lab ID: 480-224998-1 MSD

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Matrix: Water Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	5.30		5.10	104	75-125	1	20		6010C
Antimony	0.518		0.500	104	75-125	0	20		6010C
Arsenic	0.986		1.00	99	75-125	1	20		6010C
Barium	1.07		1.00	102	75-125	1	20		6010C
Beryllium	0.527		0.500	105	75-125	1	20		6010C
Cadmium	0.526		0.500	104	75-125	1	20		6010C
Calcium	141.3		25.0	87	75-125	1	20	4	6010C
Chromium	0.511		0.500	102	75-125	1	20		6010C
Cobalt	0.526		0.500	105	75-125	1	20		6010C
Copper	0.547		0.500	109	75-125	0	20		6010C
Iron	5.66		5.10	111	75-125	1	20		6010C
Lead	0.533		0.500	107	75-125	0	20		6010C
Magnesium	57.42		25.0	97	75-125	0	20		6010C
Manganese	0.510		0.500	101	75-125	0	20		6010C
Nickel	0.540		0.500	107	75-125	1	20		6010C
Potassium	46.78		25.0	111	75-125	1	20		6010C
Selenium	0.986		1.00	99	75-125	1	20		6010C
Silver	0.0528		0.0500	106	75-125	0	20		6010C
Sodium	306.6		25.0	157	75-125	3	20	4	6010C
Thallium	1.02		1.00	102	75-125	1	20		6010C
Vanadium	0.526		0.500	105	75-125	1	20		6010C
Zinc	2.04		0.500	129	75-125	4	20	F1	6010C
Mercury	0.00601		0.00669	90	80-120	1	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: RI MW-3 PDS Lab ID: 480-224998-1 PDS

Lab Name: Eurofins Buffalo Job No.: 480-224998-1

SDG No.:

Matrix: Water Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10.75		0.20	U	10.1	106	80-120		6010C
Antimony	0.495		0.020	U	0.500	99	80-120		6010C
Arsenic	0.931		0.015	U	1.00	93	80-120		6010C
Barium	1.02		0.050		1.00	97	80-120		6010C
Beryllium	0.496		0.0020	U	0.500	99	80-120		6010C
Cadmium	0.499		0.0044		0.500	99	80-120		6010C
Calcium	166.6		120		50.0	94	80-120		6010C
Chromium	0.479		0.0019	J	0.500	95	80-120		6010C
Cobalt	0.497		0.00089	J	0.500	99	80-120		6010C
Copper	0.520		0.010	U	0.500	104	80-120		6010C
Iron	11.27		0.050	U	10.1	112	80-120		6010C
Lead	0.499		0.010	U	0.500	100	80-120		6010C
Magnesium	84.98		33.1		50.0	104	80-120		6010C
Manganese	0.475		0.0025	J	0.500	94	80-120		6010C
Nickel	0.508		0.0027	J	0.500	101	80-120		6010C
Potassium	73.89		19.1		50.0	110	80-120		6010C
Selenium	0.936		0.025	U	1.00	94	80-120		6010C
Silver	0.0507		0.0060	U	0.0500	101	80-120		6010C
Sodium	312.7		267		50.0	91	80-120		6010C
Thallium	0.968		0.020	U	1.00	97	80-120		6010C
Vanadium	0.495		0.0050	U	0.500	99	80-120		6010C
Zinc	1.77		1.4		0.500	75	80-120	W	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

The NEST Site
333 1st Street
Niagara Falls, NY 14303
BCP Site # C932183

SDG: **J225023-1**
3 soil samples

Prepared for:

BE3 Corp.
960 Busti Avenue
Suite 150-B
Buffalo, NY 14213
Attention: Jacob Cox

December 2024

EDU *Environmental Data Usability* *10028 Deer Park Dr. Dansville, NY 14437* *585-991-9156*

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REVIEWER'S NARRATIVE
BE3 SDG J225023-1: The NEST Site – Niagara Falls, NY

The data associated with this Sample Delivery Group (SDG) J225023-1, analyzed by Eurofins Buffalo, Buffalo, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/13/2024

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	The NEST Site 333 1st Street Niagara Falls, NY 14303 BCP Site #: C932183
SAMPLING DATE:	October 31, 2024
SAMPLE TYPE:	3 soil samples
LABORATORY:	Eurofins Buffalo Buffalo, NY
SDG No.:	J225023-1

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 3 soil samples collected on October 31 2024. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), Pesticides, PCBs, Herbicides, PFASs, Metals, TCN, and Hexavalent Chromium (Cr+6).

All analyses were performed by Eurofins Buffalo, Buffalo, NY and analyzed as SDG J225023-1. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-8. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG J225023-1, three samples were analyzed and results were reported for 612 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have rejected/qualified and the corresponding QC reasons.

NOTE: 1) As noted by the laboratory, the soil samples were not collected following SW846 5035A protocol. This adds an element of uncertainty to the analytical results for volatile organic analytes (VOAs). Although not specifically indicated on the final data sheets with a "J" flag, the VOA analytical results should be considered estimated, but usable.

Table 6-1 8260 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-1 (4-6') BH-11 (0-2') BH-12(2-4')	Chloroform	CRQL-U	Analyte detected in method blank	Data changed to non-detect
BH-1 (4-6') BH-11 (0-2') BH-12(2-4')	Cyclohexane	J detects UJ non-detects	CCV % D > 20 % QC limit	Data are estimated

Table 6-2 8270 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-1 (4-6') BH-11 (0-2') BH-12(2-4')	2-Nitroanlinie	J detects UJ non-detects	CCV % D > 20 % QC limit	Data are estimated

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-12(2-4')	4,4'-DDT	J detect	% D for 2nd column confirmation > 25 %	Data are estimated

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-5 Herbicides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-11 (0-2')	Zn	J- detects UJ non-detects	MS/MSD rec < QC limits	Data may be biased low
BH-11 (0-2')	Al	J detects UJ non-detects	MS rec < QC limits, MSD rec> QC limits and % RPD > 35 %	Data are estimated

Table 6-8 TCN and Cr+6

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo NY 14213

Generated 11/13/2024 5:25 PM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-225023-1

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.

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Authorization

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John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
716 504-9874

Job Narrative
480-225023-1

Receipt
The samples were received on 10/31/2024 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-731000 recovered above the upper control limit for Cyclohexane. The sample(s) associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: BH-1 (4-6`) (480-225023-1), BH-11 (0-2`) (480-225023-2) and BH-12 (2-4`) (480-225023-3).

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

GC/MS Semi VOA
Methods 8270C, 8270D: The following samples were diluted due to color, appearance, and viscosity: BH-11 (0-2`) (480-225023-2) and BH-12 (2-4`) (480-225023-3). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-731034 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH-1 (4-6`) (480-225023-1), BH-11 (0-2`) (480-225023-2) and BH-12 (2-4`) (480-225023-3).

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

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample matrix: BH-11 (0-2`) (480-225023-2) and BH-12 (2-4`) (480-225023-3). 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.

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

LCMS
Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-634034 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 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) (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 analytes associated with this IDA are within spec, data is reported. The following samples are impacted: BH-1 (4-6`) (480-225023-1), BH-11 (0-2`) (480-225023-2), BH-12 (2-4`) (480-225023-3), (CCVIS 240-634034/3), (240-214084-A-2-A) and (240-214084-A-2-B DU).

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the WDM associated with prep batch 240-633740. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The WDM associated target analyte(s) will be not affected by the IDA; therefore, the associated samples are reported. The following samples are affected:BH-1 (4-6`) (480-225023-1), BH-11 (0-2`) (480-225023-2), BH-12 (2-4`) (480-225023-3), (WDM 240-634034/4), (240-214084-A-2-A) and (240-214084-A-2-B DU).

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

General Chemistry

Method 9012B: The following samples ms/msd recovery is ND due to the samples reporting limit being 1.1.Due to this reanalysis was not performed.

(480-224950-A-5-P)

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

Organic Prep
Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: BH-11 (0-2`) (480-225023-2) and BH-12 (2-4`) (480-225023-3).

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225023-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-225023-1	BH-1 (4-6`)	Solid	10/31/24 10:20	10/31/24 16:30
480-225023-2	BH-11 (0-2`)	Solid	10/31/24 14:40	10/31/24 16:30
480-225023-3	BH-12 (2-4`)	Solid	10/31/24 15:30	10/31/24 16:30

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: M16310.D

Analysis Method: 8260C | Date Collected: 10/31/2024 10:20

Sample wt/vol: 5.01(g) | Date Analyzed: 11/04/2024 00:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 4.9 % Solids: 95.1 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.2	U vs	5.2	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U vs	5.2	0.85	
79-00-5	1,1,2-Trichloroethane	5.2	U vs	5.2	0.68	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U vs	5.2	1.2	
75-34-3	1,1-Dichloroethane	5.2	U vs	5.2	0.64	
75-35-4	1,1-Dichloroethene	5.2	U vs	5.2	0.64	
120-82-1	1,2,4-Trichlorobenzene	5.2	U vs	5.2	0.32	
96-12-8	1,2-Dibromo-3-Chloropropane	5.2	U vs	5.2	2.6	
95-50-1	1,2-Dichlorobenzene	5.2	U vs	5.2	0.41	
107-06-2	1,2-Dichloroethane	5.2	U vs	5.2	0.26	
78-87-5	1,2-Dichloropropane	5.2	U vs	5.2	2.6	
541-73-1	1,3-Dichlorobenzene	5.2	U vs	5.2	0.27	
106-46-7	1,4-Dichlorobenzene	5.2	U vs	5.2	0.73	
78-93-3	2-Butanone (MEK)	26	U vs	26	1.9	
591-78-6	2-Hexanone	26	U vs	26	2.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	
67-64-1	Acetone	26	U vs	26	4.4	
71-43-2	Benzene	5.2	U vs	5.2	0.26	
75-27-4	Bromodichloromethane	5.2	U vs	5.2	0.70	
75-25-2	Bromoform	5.2	U vs	5.2	2.6	
74-83-9	Bromomethane	5.2	U vs	5.2	0.47	
75-15-0	Carbon disulfide	5.2	U vs	5.2	2.6	
56-23-5	Carbon tetrachloride	5.2	U vs	5.2	0.51	
108-90-7	Chlorobenzene	5.2	U vs	5.2	0.69	
124-48-1	Dibromochloromethane	5.2	U vs	5.2	0.67	
75-00-3	Chloroethane	5.2	U vs	5.2	1.2	
67-66-3	Chloroform	5.2 UJ 0.57	~~J~~ B vs	5.2	0.32	UJ
74-87-3	Chloromethane	5.2	U vs	5.2	0.32	
156-59-2	cis-1,2-Dichloroethene	5.2	U vs	5.2	0.67	
10061-01-5	cis-1,3-Dichloropropene	5.2	U vs	5.2	0.76	
110-82-7	Cyclohexane	5.2	U vs	5.2	0.73	UJ

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: M16310.D

Analysis Method: 8260C | Date Collected: 10/31/2024 10:20

Sample wt/vol: 5.01(g) | Date Analyzed: 11/04/2024 00:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 4.9 % Solids: 95.1 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.2	U vs	5.2	0.43
100-41-4	Ethylbenzene	5.2	U vs	5.2	0.36
106-93-4	1,2-Dibromoethane	5.2	U vs	5.2	0.67
98-82-8	Isopropylbenzene	5.2	U vs	5.2	0.79
79-20-9	Methyl acetate	26	U vs	26	3.2
1634-04-4	Methyl tert-butyl ether	5.2	U vs	5.2	0.52
108-87-2	Methylcyclohexane	5.2	U vs	5.2	0.80
75-09-2	Methylene Chloride	5.2	U vs	5.2	2.4
100-42-5	Styrene	5.2	U vs	5.2	0.26
127-18-4	Tetrachloroethene	5.2	U vs	5.2	0.70
108-88-3	Toluene	1.2	J vs	5.2	0.40
156-60-5	trans-1,2-Dichloroethene	5.2	U vs	5.2	0.54
10061-02-6	trans-1,3-Dichloropropene	5.2	U vs	5.2	2.3
79-01-6	Trichloroethene	5.2	U vs	5.2	1.2
75-69-4	Trichlorofluoromethane	5.2	U vs	5.2	0.50
75-01-4	Vinyl chloride	5.2	U vs	5.2	0.64
1330-20-7	Xylenes, Total	1.1	J vs	10	0.88

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	90		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		64-126
460-00-4	4-Bromofluorobenzene (Surr)	84		72-126
1868-53-7	Dibromofluoromethane (Surr)	91		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: M16310.D

Analysis Method: 8260C | Date Collected: 10/31/2024 10:20

Sample wt/vol: 5.01(g) | Date Analyzed: 11/04/2024 00:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 4.9 % Solids: 95.1 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

Number TICs Found: 1 | TIC Result Total: 1.1

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
179601-23-1	m-Xylene & p-Xylene	8.45	1.1	J	97%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: M16311.D

Analysis Method: 8260C | Date Collected: 10/31/2024 14:40

Sample wt/vol: 5.12(g) | Date Analyzed: 11/04/2024 00:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 7.0 % Solids: 93.0 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.2	U vs	5.2	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U vs	5.2	0.85	
79-00-5	1,1,2-Trichloroethane	5.2	U vs	5.2	0.68	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U vs	5.2	1.2	
75-34-3	1,1-Dichloroethane	5.2	U vs	5.2	0.64	
75-35-4	1,1-Dichloroethene	5.2	U vs	5.2	0.64	
120-82-1	1,2,4-Trichlorobenzene	5.2	U vs	5.2	0.32	
96-12-8	1,2-Dibromo-3-Chloropropane	5.2	U vs	5.2	2.6	
95-50-1	1,2-Dichlorobenzene	5.2	U vs	5.2	0.41	
107-06-2	1,2-Dichloroethane	5.2	U vs	5.2	0.26	
78-87-5	1,2-Dichloropropane	5.2	U vs	5.2	2.6	
541-73-1	1,3-Dichlorobenzene	5.2	U vs	5.2	0.27	
106-46-7	1,4-Dichlorobenzene	5.2	U vs	5.2	0.73	
78-93-3	2-Butanone (MEK)	26	U vs	26	1.9	
591-78-6	2-Hexanone	26	U vs	26	2.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	
67-64-1	Acetone	26	U vs	26	4.4	
71-43-2	Benzene	5.2	U vs	5.2	0.26	
75-27-4	Bromodichloromethane	5.2	U vs	5.2	0.70	
75-25-2	Bromoform	5.2	U vs	5.2	2.6	
74-83-9	Bromomethane	5.2	U vs	5.2	0.47	
75-15-0	Carbon disulfide	5.2	U vs	5.2	2.6	
56-23-5	Carbon tetrachloride	5.2	U vs	5.2	0.51	
108-90-7	Chlorobenzene	5.2	U vs	5.2	0.69	
124-48-1	Dibromochloromethane	5.2	U vs	5.2	0.67	
75-00-3	Chloroethane	5.2	U vs	5.2	1.2	
67-66-3	Chloroform	5.2 UJ ~~0.56~~	~~J B~~ vs	5.2	0.32	UJ
74-87-3	Chloromethane	5.2	U vs	5.2	0.32	
156-59-2	cis-1,2-Dichloroethene	5.2	U vs	5.2	0.67	
10061-01-5	cis-1,3-Dichloropropene	5.2	U vs	5.2	0.76	
110-82-7	Cyclohexane	5.2	U vs	5.2	0.73	UJ

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: M16311.D

Analysis Method: 8260C | Date Collected: 10/31/2024 14:40

Sample wt/vol: 5.12(g) | Date Analyzed: 11/04/2024 00:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 7.0 % Solids: 93.0 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.2	U vs	5.2	0.43
100-41-4	Ethylbenzene	5.2	U vs	5.2	0.36
106-93-4	1,2-Dibromoethane	5.2	U vs	5.2	0.67
98-82-8	Isopropylbenzene	5.2	U vs	5.2	0.79
79-20-9	Methyl acetate	26	U vs	26	3.2
1634-04-4	Methyl tert-butyl ether	5.2	U vs	5.2	0.52
108-87-2	Methylcyclohexane	5.2	U vs	5.2	0.80
75-09-2	Methylene Chloride	5.2	U vs	5.2	2.4
100-42-5	Styrene	5.2	U vs	5.2	0.26
127-18-4	Tetrachloroethene	5.2	U vs	5.2	0.70
108-88-3	Toluene	1.2	J vs	5.2	0.40
156-60-5	trans-1,2-Dichloroethene	5.2	U vs	5.2	0.54
10061-02-6	trans-1,3-Dichloropropene	5.2	U vs	5.2	2.3
79-01-6	Trichloroethene	5.2	U vs	5.2	1.2
75-69-4	Trichlorofluoromethane	5.2	U vs	5.2	0.50
75-01-4	Vinyl chloride	5.2	U vs	5.2	0.64
1330-20-7	Xylenes, Total	1.0	J vs	10	0.88

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		64-126
460-00-4	4-Bromofluorobenzene (Surr)	83		72-126
1868-53-7	Dibromofluoromethane (Surr)	91		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: M16311.D

Analysis Method: 8260C | Date Collected: 10/31/2024 14:40

Sample wt/vol: 5.12(g) | Date Analyzed: 11/04/2024 00:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 7.0 % Solids: 93.0 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

Number TICs Found: 1 | TIC Result Total: 1

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
179601-23-1	m-Xylene & p-Xylene	8.45	1.0	J	96%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: M16312.D

Analysis Method: 8260C | Date Collected: 10/31/2024 15:30

Sample wt/vol: 5.12(g) | Date Analyzed: 11/04/2024 00:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 5.2 % Solids: 94.8 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.2	U vs	5.2	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U vs	5.2	0.84	
79-00-5	1,1,2-Trichloroethane	5.2	U vs	5.2	0.67	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U vs	5.2	1.2	
75-34-3	1,1-Dichloroethane	5.2	U vs	5.2	0.63	
75-35-4	1,1-Dichloroethene	5.2	U vs	5.2	0.63	
120-82-1	1,2,4-Trichlorobenzene	5.2	U vs	5.2	0.31	
96-12-8	1,2-Dibromo-3-Chloropropane	5.2	U vs	5.2	2.6	
95-50-1	1,2-Dichlorobenzene	5.2	U vs	5.2	0.40	
107-06-2	1,2-Dichloroethane	5.2	U vs	5.2	0.26	
78-87-5	1,2-Dichloropropane	5.2	U vs	5.2	2.6	
541-73-1	1,3-Dichlorobenzene	5.2	U vs	5.2	0.26	
106-46-7	1,4-Dichlorobenzene	5.2	U vs	5.2	0.72	
78-93-3	2-Butanone (MEK)	26	U vs	26	1.9	
591-78-6	2-Hexanone	26	U vs	26	2.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	
67-64-1	Acetone	26	U vs	26	4.3	
71-43-2	Benzene	5.2	U vs	5.2	0.25	
75-27-4	Bromodichloromethane	5.2	U vs	5.2	0.69	
75-25-2	Bromoform	5.2	U vs	5.2	2.6	
74-83-9	Bromomethane	5.2	U vs	5.2	0.46	
75-15-0	Carbon disulfide	5.2	U vs	5.2	2.6	
56-23-5	Carbon tetrachloride	5.2	U vs	5.2	0.50	
108-90-7	Chlorobenzene	5.2	U vs	5.2	0.68	
124-48-1	Dibromochloromethane	5.2	U vs	5.2	0.66	
75-00-3	Chloroethane	5.2	U vs	5.2	1.2	
67-66-3	Chloroform	5.2 UJ ~~0.65~~	~~J B~~ vs	5.2	0.32	UJ
74-87-3	Chloromethane	5.2	U vs	5.2	0.31	
156-59-2	cis-1,2-Dichloroethene	5.2	U vs	5.2	0.66	
10061-01-5	cis-1,3-Dichloropropene	5.2	U vs	5.2	0.74	
110-82-7	Cyclohexane	5.2	U vs	5.2	0.72	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: M16312.D

Analysis Method: 8260C | Date Collected: 10/31/2024 15:30

Sample wt/vol: 5.12(g) | Date Analyzed: 11/04/2024 00:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 5.2 % Solids: 94.8 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.2	U vs	5.2	0.43
100-41-4	Ethylbenzene	5.2	U vs	5.2	0.36
106-93-4	1,2-Dibromoethane	5.2	U vs	5.2	0.66
98-82-8	Isopropylbenzene	5.2	U vs	5.2	0.78
79-20-9	Methyl acetate	26	U vs	26	3.1
1634-04-4	Methyl tert-butyl ether	5.2	U vs	5.2	0.51
108-87-2	Methylcyclohexane	5.2	U vs	5.2	0.78
75-09-2	Methylene Chloride	5.2	U vs	5.2	2.4
100-42-5	Styrene	5.2	U vs	5.2	0.26
127-18-4	Tetrachloroethene	5.2	U vs	5.2	0.69
108-88-3	Toluene	5.2	U vs	5.2	0.39
156-60-5	trans-1,2-Dichloroethene	5.2	U vs	5.2	0.53
10061-02-6	trans-1,3-Dichloropropene	5.2	U vs	5.2	2.3
79-01-6	Trichloroethene	5.2	U vs	5.2	1.1
75-69-4	Trichlorofluoromethane	5.2	U vs	5.2	0.49
75-01-4	Vinyl chloride	5.2	U vs	5.2	0.63
1330-20-7	Xylenes, Total	10	U vs	10	0.87

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-126
460-00-4	4-Bromofluorobenzene (Surr)	82		72-126
1868-53-7	Dibromofluoromethane (Surr)	92		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: M16312.D

Analysis Method: 8260C | Date Collected: 10/31/2024 15:30

Sample wt/vol: 5.12(g) | Date Analyzed: 11/04/2024 00:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 5.2 % Solids: 94.8 | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: X00000033998.d

Analysis Method: 8270D | Date Collected: 10/31/2024 10:20

Extract. Method: 3550C | Date Extracted: 11/03/2024 06:49

Sample wt/vol: 30.35(g) | Date Analyzed: 11/04/2024 19:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 4.9 % Solids: 95.1 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731034 | Units: ug/Kg

Preparation Batch No.: 730963 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	100	U	100	57	
95-95-4	2,4,5-Trichlorophenol	180	U	180	48	
88-06-2	2,4,6-Trichlorophenol	180	U	180	35	
120-83-2	2,4-Dichlorophenol	180	U	180	19	
105-67-9	2,4-Dimethylphenol	180	U	180	43	
51-28-5	2,4-Dinitrophenol	1700	U	1700	810	
121-14-2	2,4-Dinitrotoluene	180	U	180	36	
606-20-2	2,6-Dinitrotoluene	180	U	180	21	
91-58-7	2-Chloronaphthalene	180	U	180	29	
95-57-8	2-Chlorophenol	340	U	340	32	
91-57-6	2-Methylnaphthalene	180	U	180	35	
95-48-7	2-Methylphenol	180	U	180	21	
88-74-4	2-Nitroaniline	340	U	340	26	UJ
88-75-5	2-Nitrophenol	180	U	180	50	
91-94-1	3,3'-Dichlorobenzidine	340	U	340	210	
99-09-2	3-Nitroaniline	340	U	340	49	
534-52-1	4,6-Dinitro-2-methylphenol	340	U	340	180	
101-55-3	4-Bromophenyl phenyl ether	180	U	180	25	
59-50-7	4-Chloro-3-methylphenol	180	U	180	44	
106-47-8	4-Chloroaniline	180	U	180	44	
7005-72-3	4-Chlorophenyl phenyl ether	180	U	180	22	
106-44-5	4-Methylphenol	340	U	340	21	
100-01-6	4-Nitroaniline	340	U	340	92	
100-02-7	4-Nitrophenol	340	U	340	120	
83-32-9	Acenaphthene	180	U	180	26	
208-96-8	Acenaphthylene	180	U	180	23	
98-86-2	Acetophenone	180	U	180	24	
120-12-7	Anthracene	180	U	180	44	
1912-24-9	Atrazine	180	U	180	61	
100-52-7	Benzaldehyde	180	U	180	140	
56-55-3	Benzo[a]anthracene	180	U	180	18	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: X00000033998.d

Analysis Method: 8270D | Date Collected: 10/31/2024 10:20

Extract. Method: 3550C | Date Extracted: 11/03/2024 06:49

Sample wt/vol: 30.35(g) | Date Analyzed: 11/04/2024 19:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 4.9 % Solids: 95.1 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731034 | Units: ug/Kg

Preparation Batch No.: 730963 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	180	U	180	26
205-99-2	Benzo[b]fluoranthene	180	U	180	28
191-24-2	Benzo[g,h,i]perylene	180	U	180	19
207-08-9	Benzo[k]fluoranthene	180	U	180	23
92-52-4	Biphenyl	180	U	180	26
108-60-1	bis (2-chloroisopropyl) ether	180	U	180	35
111-91-1	Bis(2-chloroethoxy)methane	180	U	180	37
111-44-4	Bis(2-chloroethyl)ether	180	U	180	23
117-81-7	Bis(2-ethylhexyl) phthalate	180	U	180	60
85-68-7	Butyl benzyl phthalate	180	U	180	29
105-60-2	Caprolactam	180	U	180	53
86-74-8	Carbazole	180	U	180	21
218-01-9	Chrysene	180	U	180	39
53-70-3	Dibenz(a,h)anthracene	180	U	180	31
132-64-9	Dibenzofuran	180	U	180	21
84-66-2	Diethyl phthalate	180	U	180	23
131-11-3	Dimethyl phthalate	180	U	180	21
84-74-2	Di-n-butyl phthalate	180	U	180	30
117-84-0	Di-n-octyl phthalate	180	U	180	21
206-44-0	Fluoranthene	180	U	180	19
86-73-7	Fluorene	180	U	180	21
118-74-1	Hexachlorobenzene	180	U	180	24
87-68-3	Hexachlorobutadiene	180	U	180	26
77-47-4	Hexachlorocyclopentadiene	180	U	180	24
67-72-1	Hexachloroethane	180	U	180	23
193-39-5	Indeno[1,2,3-cd]pyrene	180	U	180	22
78-59-1	Isophorone	180	U	180	37
91-20-3	Naphthalene	180	U	180	23
98-95-3	Nitrobenzene	180	U	180	20
621-64-7	N-Nitrosodi-n-propylamine	180	U	180	30
86-30-6	N-Nitrosodiphenylamine	180	U	180	140

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: X00000033998.d

Analysis Method: 8270D | Date Collected: 10/31/2024 10:20

Extract. Method: 3550C | Date Extracted: 11/03/2024 06:49

Sample wt/vol: 30.35(g) | Date Analyzed: 11/04/2024 19:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 4.9 % Solids: 95.1 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731034 | Units: ug/Kg

Preparation Batch No.: 730963 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	340	U	340	180
85-01-8	Phenanthrene	180	U	180	26
108-95-2	Phenol	180	U	180	27
129-00-0	Pyrene	180	U	180	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	81		26-143
321-60-8	2-Fluorobiphenyl (Surr)	84		50-121
367-12-4	2-Fluorophenol (Surr)	85		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	84		40-121
4165-62-2	Phenol-d5 (Surr)	88		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	94		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: X00000033999.d

Analysis Method: 8270D | Date Collected: 10/31/2024 14:40

Extract. Method: 3550C | Date Extracted: 11/03/2024 06:49

Sample wt/vol: 30.21(g) | Date Analyzed: 11/04/2024 20:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 7.0 % Solids: 93.0 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731034 | Units: ug/Kg

Preparation Batch No.: 730963 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	530	U	530	290	
95-95-4	2,4,5-Trichlorophenol	910	U	910	250	
88-06-2	2,4,6-Trichlorophenol	910	U	910	180	
120-83-2	2,4-Dichlorophenol	910	U	910	96	
105-67-9	2,4-Dimethylphenol	910	U	910	220	
51-28-5	2,4-Dinitrophenol	8900	U	8900	4200	
121-14-2	2,4-Dinitrotoluene	910	U	910	190	
606-20-2	2,6-Dinitrotoluene	910	U	910	110	
91-58-7	2-Chloronaphthalene	910	U	910	150	
95-57-8	2-Chlorophenol	1800	U	1800	170	
91-57-6	2-Methylnaphthalene	910	U	910	180	
95-48-7	2-Methylphenol	910	U	910	110	
88-74-4	2-Nitroaniline	1800	U	1800	130	UJ
88-75-5	2-Nitrophenol	910	U	910	260	
91-94-1	3,3'-Dichlorobenzidine	1800	U	1800	1100	
99-09-2	3-Nitroaniline	1800	U	1800	250	
534-52-1	4,6-Dinitro-2-methylphenol	1800	U	1800	910	
101-55-3	4-Bromophenyl phenyl ether	910	U	910	130	
59-50-7	4-Chloro-3-methylphenol	910	U	910	220	
106-47-8	4-Chloroaniline	910	U	910	220	
7005-72-3	4-Chlorophenyl phenyl ether	910	U	910	110	
106-44-5	4-Methylphenol	1800	U	1800	110	
100-01-6	4-Nitroaniline	1800	U	1800	470	
100-02-7	4-Nitrophenol	1800	U	1800	640	
83-32-9	Acenaphthene	910	U	910	130	
208-96-8	Acenaphthylene	910	U	910	120	
98-86-2	Acetophenone	910	U	910	120	
120-12-7	Anthracene	910	U	910	220	
1912-24-9	Atrazine	910	U	910	310	
100-52-7	Benzaldehyde	910	U	910	720	
56-55-3	Benzo[a]anthracene	140	J	910	91	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: X00000033999.d

Analysis Method: 8270D | Date Collected: 10/31/2024 14:40

Extract. Method: 3550C | Date Extracted: 11/03/2024 06:49

Sample wt/vol: 30.21(g) | Date Analyzed: 11/04/2024 20:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 7.0 % Solids: 93.0 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731034 | Units: ug/Kg

Preparation Batch No.: 730963 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	150	J	910	130
205-99-2	Benzo[b]fluoranthene	200	J	910	140
191-24-2	Benzo[g,h,i]perylene	110	J	910	96
207-08-9	Benzo[k]fluoranthene	910	U	910	120
92-52-4	Biphenyl	910	U	910	130
108-60-1	bis (2-chloroisopropyl) ether	910	U	910	180
111-91-1	Bis(2-chloroethoxy)methane	910	U	910	190
111-44-4	Bis(2-chloroethyl)ether	910	U	910	120
117-81-7	Bis(2-ethylhexyl) phthalate	910	U	910	310
85-68-7	Butyl benzyl phthalate	910	U	910	150
105-60-2	Caprolactam	910	U	910	270
86-74-8	Carbazole	910	U	910	110
218-01-9	Chrysene	910	U	910	200
53-70-3	Dibenz(a,h)anthracene	910	U	910	160
132-64-9	Dibenzofuran	910	U	910	110
84-66-2	Diethyl phthalate	910	U	910	120
131-11-3	Dimethyl phthalate	910	U	910	110
84-74-2	Di-n-butyl phthalate	910	U	910	150
117-84-0	Di-n-octyl phthalate	910	U	910	110
206-44-0	Fluoranthene	260	J	910	96
86-73-7	Fluorene	910	U	910	110
118-74-1	Hexachlorobenzene	910	U	910	120
87-68-3	Hexachlorobutadiene	910	U	910	130
77-47-4	Hexachlorocyclopentadiene	910	U	910	120
67-72-1	Hexachloroethane	910	U	910	120
193-39-5	Indeno[1,2,3-cd]pyrene	910	U	910	110
78-59-1	Isophorone	910	U	910	190
91-20-3	Naphthalene	910	U	910	120
98-95-3	Nitrobenzene	910	U	910	100
621-64-7	N-Nitrosodi-n-propylamine	910	U	910	150
86-30-6	N-Nitrosodiphenylamine	910	U	910	740

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: X00000033999.d

Analysis Method: 8270D | Date Collected: 10/31/2024 14:40

Extract. Method: 3550C | Date Extracted: 11/03/2024 06:49

Sample wt/vol: 30.21(g) | Date Analyzed: 11/04/2024 20:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 7.0 % Solids: 93.0 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731034 | Units: ug/Kg

Preparation Batch No.: 730963 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	1800	U	1800	910
85-01-8	Phenanthrene	910	U	910	130
108-95-2	Phenol	910	U	910	140
129-00-0	Pyrene	230	J	910	110

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	73		26-143
321-60-8	2-Fluorobiphenyl (Surr)	86		50-121
367-12-4	2-Fluorophenol (Surr)	74		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	77		40-121
4165-62-2	Phenol-d5 (Surr)	77		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	93		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: X00000034000.d

Analysis Method: 8270D | Date Collected: 10/31/2024 15:30

Extract. Method: 3550C | Date Extracted: 11/03/2024 06:49

Sample wt/vol: 30.32(g) | Date Analyzed: 11/04/2024 20:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 5.2 % Solids: 94.8 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731034 | Units: ug/Kg

Preparation Batch No.: 730963 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	520	U	520	290	
95-95-4	2,4,5-Trichlorophenol	890	U	890	240	
88-06-2	2,4,6-Trichlorophenol	890	U	890	180	
120-83-2	2,4-Dichlorophenol	890	U	890	94	
105-67-9	2,4-Dimethylphenol	890	U	890	210	
51-28-5	2,4-Dinitrophenol	8700	U	8700	4100	
121-14-2	2,4-Dinitrotoluene	890	U	890	180	
606-20-2	2,6-Dinitrotoluene	890	U	890	100	
91-58-7	2-Chloronaphthalene	890	U	890	150	
95-57-8	2-Chlorophenol	1700	U	1700	160	
91-57-6	2-Methylnaphthalene	890	U	890	180	
95-48-7	2-Methylphenol	890	U	890	100	
88-74-4	2-Nitroaniline	1700	U	1700	130	UJ
88-75-5	2-Nitrophenol	890	U	890	250	
91-94-1	3,3'-Dichlorobenzidine	1700	U	1700	1000	
99-09-2	3-Nitroaniline	1700	U	1700	250	
534-52-1	4,6-Dinitro-2-methylphenol	1700	U	1700	890	
101-55-3	4-Bromophenyl phenyl ether	890	U	890	130	
59-50-7	4-Chloro-3-methylphenol	890	U	890	220	
106-47-8	4-Chloroaniline	890	U	890	220	
7005-72-3	4-Chlorophenyl phenyl ether	890	U	890	110	
106-44-5	4-Methylphenol	1700	U	1700	100	
100-01-6	4-Nitroaniline	1700	U	1700	460	
100-02-7	4-Nitrophenol	1700	U	1700	620	
83-32-9	Acenaphthene	890	U	890	130	
208-96-8	Acenaphthylene	890	U	890	110	
98-86-2	Acetophenone	890	U	890	120	
120-12-7	Anthracene	890	U	890	220	
1912-24-9	Atrazine	890	U	890	310	
100-52-7	Benzaldehyde	890	U	890	700	
56-55-3	Benzo[a]anthracene	270	J	890	89	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: X00000034000.d

Analysis Method: 8270D | Date Collected: 10/31/2024 15:30

Extract. Method: 3550C | Date Extracted: 11/03/2024 06:49

Sample wt/vol: 30.32(g) | Date Analyzed: 11/04/2024 20:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 5.2 % Solids: 94.8 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731034 | Units: ug/Kg

Preparation Batch No.: 730963 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	270	J	890	130
205-99-2	Benzo[b]fluoranthene	350	J	890	140
191-24-2	Benzo[g,h,i]perylene	210	J	890	94
207-08-9	Benzo[k]fluoranthene	130	J	890	110
92-52-4	Biphenyl	890	U	890	130
108-60-1	bis (2-chloroisopropyl) ether	890	U	890	180
111-91-1	Bis(2-chloroethoxy)methane	890	U	890	190
111-44-4	Bis(2-chloroethyl)ether	890	U	890	110
117-81-7	Bis(2-ethylhexyl) phthalate	890	U	890	300
85-68-7	Butyl benzyl phthalate	890	U	890	150
105-60-2	Caprolactam	890	U	890	270
86-74-8	Carbazole	890	U	890	100
218-01-9	Chrysene	280	J	890	200
53-70-3	Dibenz(a,h)anthracene	890	U	890	160
132-64-9	Dibenzofuran	890	U	890	100
84-66-2	Diethyl phthalate	890	U	890	110
131-11-3	Dimethyl phthalate	890	U	890	100
84-74-2	Di-n-butyl phthalate	890	U	890	150
117-84-0	Di-n-octyl phthalate	890	U	890	100
206-44-0	Fluoranthene	600	J	890	94
86-73-7	Fluorene	890	U	890	100
118-74-1	Hexachlorobenzene	890	U	890	120
87-68-3	Hexachlorobutadiene	890	U	890	130
77-47-4	Hexachlorocyclopentadiene	890	U	890	120
67-72-1	Hexachloroethane	890	U	890	110
193-39-5	Indeno[1,2,3-cd]pyrene	170	J	890	110
78-59-1	Isophorone	890	U	890	190
91-20-3	Naphthalene	890	U	890	110
98-95-3	Nitrobenzene	890	U	890	99
621-64-7	N-Nitrosodi-n-propylamine	890	U	890	150
86-30-6	N-Nitrosodiphenylamine	890	U	890	720

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: X00000034000.d

Analysis Method: 8270D | Date Collected: 10/31/2024 15:30

Extract. Method: 3550C | Date Extracted: 11/03/2024 06:49

Sample wt/vol: 30.32(g) | Date Analyzed: 11/04/2024 20:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 5.2 % Solids: 94.8 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731034 | Units: ug/Kg

Preparation Batch No.: 730963 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	1700	U	1700	890
85-01-8	Phenanthrene	320	J	890	130
108-95-2	Phenol	890	U	890	140
129-00-0	Pyrene	460	J	890	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	76		26-143
321-60-8	2-Fluorobiphenyl (Surr)	93		50-121
367-12-4	2-Fluorophenol (Surr)	77		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	84		40-121
4165-62-2	Phenol-d5 (Surr)	85		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	91		46-143

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: 25_84-397.D

Analysis Method: 8081B | Date Collected: 10/31/2024 10:20

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:30

Sample wt/vol: 30.24(g) | Date Analyzed: 11/05/2024 11:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 4.9 % Solids: 95.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731153 | Units: ug/Kg

Preparation Batch No.: 731139 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	1.7	U	1.7	0.34
72-55-9	4,4'-DDE	1.7	U	1.7	0.37
50-29-3	4,4'-DDT	1.7	U	1.7	0.41
309-00-2	Aldrin	1.7	U	1.7	0.43
319-84-6	alpha-BHC	1.7	U	1.7	0.31
319-85-7	beta-BHC	1.7	U	1.7	0.31
5103-71-9	Chlordane (.alpha.)	1.7	U	1.7	0.87
319-86-8	delta-BHC	1.7	U	1.7	0.32
60-57-1	Dieldrin	1.7	U	1.7	0.42
959-98-8	Endosulfan I	1.7	U	1.7	0.33
33213-65-9	Endosulfan II	1.7	U	1.7	0.31
1031-07-8	Endosulfan sulfate	1.7	U	1.7	0.32
72-20-8	Endrin	1.7	U	1.7	0.34
76-44-8	Heptachlor	1.7	U	1.7	0.38
58-89-9	Lindane	1.7	U	1.7	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	68		45-120
877-09-8	Tetrachloro-m-xylene	68		30-124

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: 25_84-398.D

Analysis Method: 8081B | Date Collected: 10/31/2024 14:40

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:30

Sample wt/vol: 30.34(g) | Date Analyzed: 11/05/2024 11:32

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 7.0 % Solids: 93.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731153 | Units: ug/Kg

Preparation Batch No.: 731139 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	35	U	35	6.9
72-55-9	4,4'-DDE	35	U	35	7.4
50-29-3	4,4'-DDT	35	U	35	8.3
309-00-2	Aldrin	35	U	35	8.7
319-84-6	alpha-BHC	35	U	35	6.4
319-85-7	beta-BHC	35	U	35	6.4
5103-71-9	Chlordane (.alpha.)	35	U	35	18
319-86-8	delta-BHC	35	U	35	6.6
60-57-1	Dieldrin	35	U	35	8.5
959-98-8	Endosulfan I	35	U	35	6.8
33213-65-9	Endosulfan II	35	U	35	6.4
1031-07-8	Endosulfan sulfate	35	U	35	6.6
72-20-8	Endrin	35	U	35	7.0
76-44-8	Heptachlor	35	U	35	7.7
58-89-9	Lindane	35	U	35	6.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	0	S1-	45-120
877-09-8	Tetrachloro-m-xylene	0	S1-	30-124

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: 25_84-399.D

Analysis Method: 8081B | Date Collected: 10/31/2024 15:30

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:30

Sample wt/vol: 30.67(g) | Date Analyzed: 11/05/2024 11:52

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 5.2 % Solids: 94.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731153 | Units: ug/Kg

Preparation Batch No.: 731139 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	8.6	U	8.6	1.7	
72-55-9	4,4'-DDE	8.6	U	8.6	1.8	
50-29-3	4,4'-DDT	3.2	J	8.6	2.0	J
309-00-2	Aldrin	8.6	U	8.6	2.1	
319-84-6	alpha-BHC	8.6	U	8.6	1.5	
319-85-7	beta-BHC	8.6	U	8.6	1.5	
5103-71-9	Chlordane (.alpha.)	8.6	U	8.6	4.3	
319-86-8	delta-BHC	8.6	U	8.6	1.6	
60-57-1	Dieldrin	8.6	U	8.6	2.1	
959-98-8	Endosulfan I	8.6	U	8.6	1.7	
33213-65-9	Endosulfan II	8.6	U	8.6	1.5	
1031-07-8	Endosulfan sulfate	8.6	U	8.6	1.6	
72-20-8	Endrin	8.6	U	8.6	1.7	
76-44-8	Heptachlor	8.6	U	8.6	1.9	
58-89-9	Lindane	8.6	U	8.6	1.6	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	64		45-120
877-09-8	Tetrachloro-m-xylene	66		30-124

MKP 12/13/2024

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

No data validation qualifiers were added

MKP 12/13/2024

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: 70001517.D

Analysis Method: 8082A | Date Collected: 10/31/2024 10:20

Extraction Method: 3550C | Date Extracted: 11/01/2024 17:55

Sample wt/vol: 2.47(g) | Date Analyzed: 11/02/2024 22:16

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 4.9 % Solids: 95.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730922 | Units: mg/Kg

Preparation Batch No.: 730899 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.21	U	0.21	0.042
11104-28-2	PCB-1221	0.21	U	0.21	0.042
11141-16-5	PCB-1232	0.21	U	0.21	0.042
53469-21-9	PCB-1242	0.21	U	0.21	0.042
12672-29-6	PCB-1248	0.21	U	0.21	0.042
11097-69-1	PCB-1254	0.21	U	0.21	0.10
11096-82-5	PCB-1260	0.21	U	0.21	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	113		60-154
2051-24-3	DCB Decachlorobiphenyl	141		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: 70001536.D

Analysis Method: 8082A | Date Collected: 10/31/2024 14:40

Extraction Method: 3550C | Date Extracted: 11/01/2024 17:55

Sample wt/vol: 2.41(g) | Date Analyzed: 11/03/2024 03:04

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 7.0 % Solids: 93.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730922 | Units: mg/Kg

Preparation Batch No.: 730899 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.22	U	0.22	0.044
11104-28-2	PCB-1221	0.22	U	0.22	0.044
11141-16-5	PCB-1232	0.22	U	0.22	0.044
53469-21-9	PCB-1242	0.22	U	0.22	0.044
12672-29-6	PCB-1248	0.22	U	0.22	0.044
11097-69-1	PCB-1254	0.22	U	0.22	0.10
11096-82-5	PCB-1260	0.22	U	0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	111		60-154
2051-24-3	DCB Decachlorobiphenyl	129		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: 70001537.D

Analysis Method: 8082A | Date Collected: 10/31/2024 15:30

Extraction Method: 3550C | Date Extracted: 11/01/2024 17:55

Sample wt/vol: 2.64(g) | Date Analyzed: 11/03/2024 03:22

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.2 % Solids: 94.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 730922 | Units: mg/Kg

Preparation Batch No.: 730899 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.20	U	0.20	0.039
11104-28-2	PCB-1221	0.20	U	0.20	0.039
11141-16-5	PCB-1232	0.20	U	0.20	0.039
53469-21-9	PCB-1242	0.20	U	0.20	0.039
12672-29-6	PCB-1248	0.20	U	0.20	0.039
11097-69-1	PCB-1254	0.20	U	0.20	0.094
11096-82-5	PCB-1260	0.20	U	0.20	0.094

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	112		60-154
2051-24-3	DCB Decachlorobiphenyl	137		65-174

Method 8151A

Herbicides (GC) by Method 8151A

No data validation qualifiers were added

MKP 12/13/2024

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: 2024-11-05 16-55-56-05-00-15.D

Analysis Method: 8151A | Date Collected: 10/31/2024 10:20

Extraction Method: 8151A | Date Extracted: 11/03/2024 06:56

Sample wt/vol: 30.88(g) | Date Analyzed: 11/05/2024 16:55

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 4.9 % Solids: 95.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/Kg

Preparation Batch No.: 730964 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	17	U	17	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	70		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: 2024-11-05 17-14-26-05-00-16.D

Analysis Method: 8151A | Date Collected: 10/31/2024 14:40

Extraction Method: 8151A | Date Extracted: 11/03/2024 06:56

Sample wt/vol: 30.54(g) | Date Analyzed: 11/05/2024 17:14

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 7.0 % Solids: 93.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/Kg

Preparation Batch No.: 730964 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	18	U	18	6.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	70		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: 2024-11-05 17-32-55-05-00-17.D

Analysis Method: 8151A | Date Collected: 10/31/2024 15:30

Extraction Method: 8151A | Date Extracted: 11/03/2024 06:56

Sample wt/vol: 30.02(g) | Date Analyzed: 11/05/2024 17:32

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 5.2 % Solids: 94.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731215 | Units: ug/Kg

Preparation Batch No.: 730964 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	18	U	18	6.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	67		28-129

1633

Per- and Polyfluoroalkyl Substances by LC/MS/MS

No data validation qualifiers were added

MKP 12/13/2024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: 2024_11_5solidinj11.d

Analysis Method: Draft-3 1633 | Date Collected: 10/31/2024 10:20

Extraction Method: 1633 Shake | Date Extracted: 11/05/2024 08:10

Sample wt/vol: 1.54(g) | Date Analyzed: 11/05/2024 19:04

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 4.9 % Solids: 95.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634034 | Units: ug/Kg

Preparation Batch No.: 633740 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.19	J	0.68	0.17
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.34	U	0.34	0.085
307-24-4	Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.043
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.043
335-67-1	Perfluorooctanoic acid (PFOA)	0.059	J	0.17	0.043
375-95-1	Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.043
335-76-2	Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.043
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.043
307-55-1	Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.043
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.043
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.043
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.043
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.043
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.043
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.043
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.90		0.17	0.043
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.043
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.043
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.68	U	0.68	0.17
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.68	U	0.68	0.17
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.68	U	0.68	0.17
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.043
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.043
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.043
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.043

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: 2024_11_5solidinj11.d

Analysis Method: Draft-3 1633 | Date Collected: 10/31/2024 10:20

Extraction Method: 1633 Shake | Date Extracted: 11/05/2024 08:10

Sample wt/vol: 1.54(g) | Date Analyzed: 11/05/2024 19:04

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 4.9 % Solids: 95.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634034 | Units: ug/Kg

Preparation Batch No.: 633740 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.043
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.43
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.43
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.68	U	0.68	0.17
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.68	U	0.68	0.17
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.34	U	0.34	0.085
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.34	U	0.34	0.085
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.68	U	0.68	0.17
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.68	U	0.68	0.17
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.34	U	0.34	0.085
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.85	U	0.85	0.21
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.3	U	4.3	1.1
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.3	U	4.3	1.1
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.043
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.34	U	0.34	0.085

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-1 (4-6`) | Lab Sample ID: 480-225023-1

Matrix: Solid | Lab File ID: 2024_11_5solidinj11.d

Analysis Method: Draft-3 1633 | Date Collected: 10/31/2024 10:20

Extraction Method: 1633 Shake | Date Extracted: 11/05/2024 08:10

Sample wt/vol: 1.54(g) | Date Analyzed: 11/05/2024 19:04

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 4.9 % Solids: 95.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634034 | Units: ug/Kg

Preparation Batch No.: 633740 | Instrument ID: LCMS02

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	88.0		20-150
STL01893	13C5 PFPeA	88.7		20-150
STL02577	13C5 PFHxA	82.2		20-150
STL01892	13C4 PFHpA	87.2		20-150
STL01052	13C8 PFOA	86.3		20-150
STL02578	13C9 PFNA	86.9		20-150
STL02579	13C6 PFDA	85.5		20-150
STL02580	13C7 PFUnA	84.6		20-150
STL02116	13C2 PFTeDA	81.4		20-150
STL02337	13C3 PFBS	88.1		20-150
STL02581	13C3 PFHxS	87.1		20-150
STL01054	13C8 PFOS	84.7		20-150
STL01056	13C8 PFOSA	79.0		20-150
STL02118	d3-NMeFOSAA	80.1		20-150
STL02117	d5-NEtFOSAA	117		20-150
STL02395	M2-4:2 FTS	98.0		20-150
STL02279	M2-6:2 FTS	88.4		20-150
STL02280	M2-8:2 FTS	83.0		20-150
STL02255	13C3 HFPO-DA	91.4		20-150
STL02277	d7-N-MeFOSE-M	81.5		20-150
STL02278	d9-N-EtFOSE-M	74.2		20-150
STL02704	d5-NEtPFOSA	65.7		20-150
STL02705	D3-NMeFOSA	65.5		20-150
STL02703	13C2-PFDoDA	80.7		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: 2024_11_5solidinj12.d

Analysis Method: Draft-3 1633 | Date Collected: 10/31/2024 14:40

Extraction Method: 1633 Shake | Date Extracted: 11/05/2024 08:10

Sample wt/vol: 1.52(g) | Date Analyzed: 11/05/2024 19:20

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 7.0 % Solids: 93.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634034 | Units: ug/Kg

Preparation Batch No.: 633740 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.71	U	0.71	0.18
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.088
307-24-4	Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.044
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.044
335-67-1	Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.044
375-95-1	Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.044
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.044
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.044
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.044
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.044
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.044
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.044
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.044
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.044
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.044
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.14	J	0.18	0.044
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.044
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.044
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.71	U	0.71	0.18
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.71	U	0.71	0.18
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.71	U	0.71	0.18
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.044
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.044
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.044
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.044

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: 2024_11_5solidinj12.d

Analysis Method: Draft-3 1633 | Date Collected: 10/31/2024 14:40

Extraction Method: 1633 Shake | Date Extracted: 11/05/2024 08:10

Sample wt/vol: 1.52(g) | Date Analyzed: 11/05/2024 19:20

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 7.0 % Solids: 93.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634034 | Units: ug/Kg

Preparation Batch No.: 633740 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.044
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.44
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.44
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.71	U	0.71	0.18
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.71	U	0.71	0.18
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.088
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.088
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.71	U	0.71	0.18
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.71	U	0.71	0.18
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.088
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.88	U	0.88	0.22
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	4.4	1.1
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.4	U	4.4	1.1
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.044
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.088

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-11 (0-2`) | Lab Sample ID: 480-225023-2

Matrix: Solid | Lab File ID: 2024_11_5solidinj12.d

Analysis Method: Draft-3 1633 | Date Collected: 10/31/2024 14:40

Extraction Method: 1633 Shake | Date Extracted: 11/05/2024 08:10

Sample wt/vol: 1.52(g) | Date Analyzed: 11/05/2024 19:20

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 7.0 % Solids: 93.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634034 | Units: ug/Kg

Preparation Batch No.: 633740 | Instrument ID: LCMS02

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	88.1		20-150
STL01893	13C5 PFPeA	90.1		20-150
STL02577	13C5 PFHxA	79.3		20-150
STL01892	13C4 PFHpA	87.1		20-150
STL01052	13C8 PFOA	86.8		20-150
STL02578	13C9 PFNA	87.1		20-150
STL02579	13C6 PFDA	76.8		20-150
STL02580	13C7 PFUnA	80.3		20-150
STL02116	13C2 PFTeDA	85.6		20-150
STL02337	13C3 PFBS	87.3		20-150
STL02581	13C3 PFHxS	87.4		20-150
STL01054	13C8 PFOS	83.5		20-150
STL01056	13C8 PFOSA	75.1		20-150
STL02118	d3-NMeFOSAA	80.3		20-150
STL02117	d5-NEtFOSAA	90.6		20-150
STL02395	M2-4:2 FTS	97.3		20-150
STL02279	M2-6:2 FTS	89.4		20-150
STL02280	M2-8:2 FTS	83.6		20-150
STL02255	13C3 HFPO-DA	90.0		20-150
STL02277	d7-N-MeFOSE-M	81.8		20-150
STL02278	d9-N-EtFOSE-M	77.9		20-150
STL02704	d5-NEtPFOSA	71.3		20-150
STL02705	D3-NMeFOSA	67.3		20-150
STL02703	13C2-PFDoDA	77.4		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: 2024_11_5solidinj13.d

Analysis Method: Draft-3 1633 | Date Collected: 10/31/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 11/05/2024 08:10

Sample wt/vol: 1.52(g) | Date Analyzed: 11/05/2024 19:37

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 5.2 % Solids: 94.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634034 | Units: ug/Kg

Preparation Batch No.: 633740 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.69	U	0.69	0.17
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.087
307-24-4	Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.043
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.043
335-67-1	Perfluorooctanoic acid (PFOA)	0.074	J	0.17	0.043
375-95-1	Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.043
335-76-2	Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.043
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.043
307-55-1	Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.043
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.043
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.043
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.043
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.043
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.043
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.043
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.089	J	0.17	0.043
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.043
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.043
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.69	U	0.69	0.17
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.69	U	0.69	0.17
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.69	U	0.69	0.17
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.043
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.043
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.043
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.043

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: 2024_11_5solidinj13.d

Analysis Method: Draft-3 1633 | Date Collected: 10/31/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 11/05/2024 08:10

Sample wt/vol: 1.52(g) | Date Analyzed: 11/05/2024 19:37

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 5.2 % Solids: 94.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634034 | Units: ug/Kg

Preparation Batch No.: 633740 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.043
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.43
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.43
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.69	U	0.69	0.17
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.69	U	0.69	0.17
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.087
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.087
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.69	U	0.69	0.17
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.69	U	0.69	0.17
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.087
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.87	U	0.87	0.22
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.3	U	4.3	1.1
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.3	U	4.3	1.1
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.043
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.087

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) | Lab Sample ID: 480-225023-3

Matrix: Solid | Lab File ID: 2024_11_5solidinj13.d

Analysis Method: Draft-3 1633 | Date Collected: 10/31/2024 15:30

Extraction Method: 1633 Shake | Date Extracted: 11/05/2024 08:10

Sample wt/vol: 1.52(g) | Date Analyzed: 11/05/2024 19:37

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 5.2 % Solids: 94.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634034 | Units: ug/Kg

Preparation Batch No.: 633740 | Instrument ID: LCMS02

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	86.7		20-150
STL01893	13C5 PFPeA	91.9		20-150
STL02577	13C5 PFHxA	83.9		20-150
STL01892	13C4 PFHpA	88.7		20-150
STL01052	13C8 PFOA	87.2		20-150
STL02578	13C9 PFNA	85.8		20-150
STL02579	13C6 PFDA	79.7		20-150
STL02580	13C7 PFUnA	81.2		20-150
STL02116	13C2 PFTeDA	82.6		20-150
STL02337	13C3 PFBS	82.0		20-150
STL02581	13C3 PFHxS	85.9		20-150
STL01054	13C8 PFOS	83.7		20-150
STL01056	13C8 PFOSA	80.1		20-150
STL02118	d3-NMeFOSAA	77.4		20-150
STL02117	d5-NEtFOSAA	107		20-150
STL02395	M2-4:2 FTS	95.0		20-150
STL02279	M2-6:2 FTS	86.4		20-150
STL02280	M2-8:2 FTS	75.4		20-150
STL02255	13C3 HFPO-DA	92.8		20-150
STL02277	d7-N-MeFOSE-M	83.6		20-150
STL02278	d9-N-EtFOSE-M	76.3		20-150
STL02704	d5-NEtPFOSA	71.8		20-150
STL02705	D3-NMeFOSA	64.2		20-150
STL02703	13C2-PFDoDA	77.6		20-150

METALS

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METALS

Lab Name: Eurofins Buffalo Job Number: 480-225023-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
BH-1 (4-6`)	480-225023-1
BH-11 (0-2`)	480-225023-2
BH-12 (2-4`)	480-225023-3

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-1 (4-6`)
Lab Sample ID: 480-225023-1
Lab Name: Eurofins Buffalo
Job No.: 480-225023-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/31/2024 10:20
Reporting Basis: DRY
Date Received: 10/31/2024 16:30
Preparation Batch Number: 730847
Instrument ID: ICAP3
% Solids: 95.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	1970	10.9	9.4	mg/Kg			1	6010C
7440-36-0	Antimony	16.4	16.4	0.58	mg/Kg	U		1	6010C
7440-38-2	Arsenic	2.2	2.2	0.96	mg/Kg	U		1	6010C
7440-39-3	Barium	11.0	0.55	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.094	0.22	0.044	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.55	0.22	0.077	mg/Kg			1	6010C
7440-70-2	Calcium	197000	273	147	mg/Kg			5	6010C
7440-47-3	Chromium	4.0	0.55	0.39	mg/Kg			1	6010C
7440-48-4	Cobalt	0.75	0.55	0.11	mg/Kg			1	6010C
7440-50-8	Copper	4.0	1.1	0.62	mg/Kg			1	6010C
7439-89-6	Iron	3530	10.9	9.3	mg/Kg			1	6010C
7439-92-1	Lead	8.9	1.1	0.50	mg/Kg			1	6010C
7439-95-4	Magnesium	119000	109	46.3	mg/Kg			5	6010C
7439-96-5	Manganese	590	1.1	0.31	mg/Kg			1	6010C
7440-02-0	Nickel	3.0	5.5	0.27	mg/Kg	J		1	6010C
7440-09-7	Potassium	704	32.8	26.5	mg/Kg			1	6010C
7782-49-2	Selenium	4.4	4.4	0.87	mg/Kg	U		1	6010C
7440-22-4	Silver	0.66	0.66	0.22	mg/Kg	U		1	6010C
7440-23-5	Sodium	187	153	67.0	mg/Kg			1	6010C
7440-28-0	Thallium	6.6	6.6	0.83	mg/Kg	U		1	6010C
7440-62-2	Vanadium	3.7	0.55	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	149	2.2	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.027	0.022	0.0051	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Lab Name: Eurofins Buffalo
Job No.: 480-225023-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/31/2024 14:40
Reporting Basis: DRY
Date Received: 10/31/2024 16:30
Preparation Batch Number: 730847
Instrument ID: ICAP3
% Solids: 93.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7429-90-5	Aluminum	2360	11.4	9.8	mg/Kg		F1 F2	1	6010C	J
7440-36-0	Antimony	17.1	17.1	0.60	mg/Kg	U		1	6010C	
7440-38-2	Arsenic	2.3	2.3	1.0	mg/Kg	U		1	6010C	
7440-39-3	Barium	12.9	0.57	0.16	mg/Kg			1	6010C	
7440-41-7	Beryllium	0.11	0.23	0.046	mg/Kg	J		1	6010C	
7440-43-9	Cadmium	0.84	0.23	0.080	mg/Kg			1	6010C	
7440-70-2	Calcium	192000	285	154	mg/Kg			5	6010C	
7440-47-3	Chromium	4.5	0.57	0.41	mg/Kg			1	6010C	
7440-48-4	Cobalt	0.98	0.57	0.11	mg/Kg			1	6010C	
7440-50-8	Copper	4.0	1.1	0.65	mg/Kg			1	6010C	
7439-89-6	Iron	4260	11.4	9.7	mg/Kg		F2	1	6010C	
7439-92-1	Lead	16.4	1.1	0.52	mg/Kg			1	6010C	
7439-95-4	Magnesium	115000	114	48.3	mg/Kg			5	6010C	
7439-96-5	Manganese	768	1.1	0.32	mg/Kg			1	6010C	
7440-02-0	Nickel	2.8	5.7	0.28	mg/Kg	J		1	6010C	
7440-09-7	Potassium	460	34.2	27.6	mg/Kg			1	6010C	
7782-49-2	Selenium	4.6	4.6	0.91	mg/Kg	U		1	6010C	
7440-22-4	Silver	0.68	0.68	0.23	mg/Kg	U		1	6010C	
7440-23-5	Sodium	178	160	69.9	mg/Kg			1	6010C	
7440-28-0	Thallium	0.91	6.8	0.87	mg/Kg	J		1	6010C	
7440-62-2	Vanadium	4.6	0.57	0.15	mg/Kg			1	6010C	
7440-66-6	Zinc	150	2.3	1.2	mg/Kg		F1	1	6010C	J-
7439-97-6	Mercury	0.020	0.023	0.0052	mg/Kg	J		1	7471B	

MKP 12/13/2024

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Lab Name: Eurofins Buffalo
Job No.: 480-225023-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/31/2024 15:30
Reporting Basis: DRY
Date Received: 10/31/2024 16:30
Preparation Batch Number: 730847
Instrument ID: ICAP3
% Solids: 94.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	6610	11.1	9.6	mg/Kg			1	6010C
7440-36-0	Antimony	16.7	16.7	0.59	mg/Kg	U		1	6010C
7440-38-2	Arsenic	2.8	2.2	0.98	mg/Kg			1	6010C
7440-39-3	Barium	91.3	0.56	0.16	mg/Kg			1	6010C
7440-41-7	Beryllium	0.28	0.22	0.045	mg/Kg			1	6010C
7440-43-9	Cadmium	0.34	0.22	0.078	mg/Kg			1	6010C
7440-70-2	Calcium	74000	55.7	30.1	mg/Kg			1	6010C
7440-47-3	Chromium	8.2	0.56	0.40	mg/Kg			1	6010C
7440-48-4	Cobalt	3.5	0.56	0.11	mg/Kg			1	6010C
7440-50-8	Copper	14.2	1.1	0.63	mg/Kg			1	6010C
7439-89-6	Iron	8730	11.1	9.4	mg/Kg			1	6010C
7439-92-1	Lead	118	1.1	0.51	mg/Kg			1	6010C
7439-95-4	Magnesium	28500	22.3	9.4	mg/Kg			1	6010C
7439-96-5	Manganese	383	1.1	0.31	mg/Kg			1	6010C
7440-02-0	Nickel	8.6	5.6	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1660	33.4	27.0	mg/Kg			1	6010C
7782-49-2	Selenium	4.5	4.5	0.89	mg/Kg	U		1	6010C
7440-22-4	Silver	0.67	0.67	0.22	mg/Kg	U		1	6010C
7440-23-5	Sodium	283	156	68.3	mg/Kg			1	6010C
7440-28-0	Thallium	6.7	6.7	0.85	mg/Kg	U		1	6010C
7440-62-2	Vanadium	12.9	0.56	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	148	2.2	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.47	0.021	0.0047	mg/Kg			1	7471B

GENERAL CHEMISTRY

No data validation qualifiers were added

MKP 12/13/2024

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GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-225023-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
BH-1 (4-6`)	480-225023-1
BH-11 (0-2`)	480-225023-2
BH-12 (2-4`)	480-225023-3

Comments:

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GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job Number: 480-225023-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
BH-1 (4-6`)	480-225023-1
BH-11 (0-2`)	480-225023-2
BH-12 (2-4`)	480-225023-3

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-1 (4-6`)
Lab Sample ID: 480-225023-1
Lab Name: Eurofins Buffalo
Job No.: 480-225023-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/31/2024 10:20
Reporting Basis: DRY
Date Received: 10/31/2024 16:30
Preparation Batch Number: 731281
Instrument ID: SEAL 1
% Solids: 95.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.92	0.92	0.44	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Lab Name: Eurofins Buffalo
Job No.: 480-225023-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/31/2024 14:40
Reporting Basis: DRY
Date Received: 10/31/2024 16:30
Preparation Batch Number: 731281
Instrument ID: SEAL 1
% Solids: 93.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.0	1.0	0.48	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Lab Name: Eurofins Buffalo
Job No.: 480-225023-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/31/2024 15:30
Reporting Basis: DRY
Date Received: 10/31/2024 16:30
Preparation Batch Number: 731281
Instrument ID: SEAL 1
% Solids: 94.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.93	0.93	0.45	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-1 (4-6`)
Lab Sample ID: 480-225023-1
Lab Name: Eurofins Edison
Job No.: 480-225023-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/31/2024 10:20
Reporting Basis: DRY
Date Received: 10/31/2024 16:30
Preparation Batch Number: 1006455
Instrument ID: WetHexSpec
% Solids: 95.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.1	2.1	0.88	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-11 (0-2`)
Lab Sample ID: 480-225023-2
Lab Name: Eurofins Edison
Job No.: 480-225023-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/31/2024 14:40
Reporting Basis: DRY
Date Received: 10/31/2024 16:30
Preparation Batch Number: 1006455
Instrument ID: WetHexSpec
% Solids: 93.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.1	2.1	0.90	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-12 (2-4`)
Lab Sample ID: 480-225023-3
Lab Name: Eurofins Edison
Job No.: 480-225023-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/31/2024 15:30
Reporting Basis: DRY
Date Received: 10/31/2024 16:30
Preparation Batch Number: 1006455
Instrument ID: WetHexSpec
% Solids: 94.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.1	2.1	0.88	mg/Kg	U		1	7196A

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: Jacob COX
Company: Bryden Engineering - BE3
Address: 960 Busti Ave suite B-150
City: Buffalo
State, Zip: NY, 14213
Phone: 716.249.6880
Email:
Site: The Nest

Sampler: Joseph Gambino
Phone: 716.249.6880
Lab PM: Beniati, John
E-Mail: JCox@BE3corp.com
Carrier Tracking No(s):
State of Origin:
Accreditations Required (See note):
Due Date Requested:
TAT Requested (days): Standard 10 Day TAT
PO #:
WO #:
SSOW#:
COC No:
Page:
Job #:

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Tnzma
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C-TCL VOCs + TICS	6010C, 7471B, 8081B	8082A, 8151A, 8270D	1633-final-1633 Standard	7196A, 9012B	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH-1 (4-6')	10-31-24	10:20AM	G	S			X	X	Y	X	X		Added Hex Chrom + Cyanide
BH-11 (0-2')	10-31-24	2:40PM	G	S			X	X	X	X	X		
BH-12 (2-4')	10-31-24	3:30PM	G	S			X	X	X	X	X		

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 sar
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 ot
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 Eurof

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)

Special Instructions/QC Requirements:

480-225023 Chain of Custody

Empty Kit Relinquished by: Date: Time: Method of Shipme

	Date/Time	Company		Date/Time	Company
Relinquished by: Joseph Gambino	10/31/24 @ 4:30pm	BE3	Received by:	10/31/24 1638	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: 5.6TR#SCIC

Ver: 06/08/2021

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90184.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-225023-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/13/2024			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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

R085-34

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, 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:						
BH-1 (4-6`) (480-225023-1)	10/31/24	10:20 Eastern	G	Solid			X	1	
BH-11 (0-2`) (480-225023-2)	10/31/24	14:40 Eastern	G	Solid			X	1	
BH-12 (2-4`) (480-225023-3)	10/31/24	13:30 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
YS	~~10~~ 11-1-24 1600		J Collins	11-2-24 930	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:

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90187.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP - New York		Job #: 480-225023-1
Address: 777 New Durham Road, ,	Due Date Requested: 11/13/2024			Preservation Codes: -
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis	Project #: 48028073			
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)	7196A/3060A Hexavalent Chromium - 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH-1 (4-6`) (480-225023-1)	10/31/24	10:20 Eastern	G	Solid			X	1	
BH-11 (0-2`) (480-225023-2)	10/31/24	14:40 Eastern	G	Solid			X	1	
BH-12 (2-4`) (480-225023-3)	10/31/24	13 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: Unconfirmed	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) Primary Deliverable Rank 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11-1-24 1600	Company	Received by: [signature]	Date/Time: 11/2/24 9:25	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: 0.8 | 1.0 IR9

Ver: 10/10/2024

Appendix B

Laboratory QC Documentation

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-225023-1

SDG No.:

Lab Sample ID: CCVIS 480-731000/4 Calibration Date: 11/03/2024 18:33

Instrument ID: HP5977M Calib Start Date: 08/12/2024 23:40

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 08/13/2024 02:04

Lab File ID: M16296.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Ave	1.713	1.620	0.1000	47.3	50.0	-5.4	50.0	
Chloromethane	Ave	1.928	2.139	0.1000	55.5	50.0	10.9	20.0	
Vinyl chloride	Ave	1.421	1.570	0.1000	55.2	50.0	10.5	20.0	
Butadiene	Ave	1.543	1.786		57.9	50.0	15.8	20.0	
Bromomethane	Ave	0.8919	0.8573	0.1000	48.1	50.0	-3.9	50.0	
Chloroethane	Ave	0.8672	0.999	0.1000	57.6	50.0	15.2	50.0	
Trichlorofluoromethane	Ave	1.730	1.816	0.1000	52.5	50.0	5.0	20.0	
Dichlorofluoromethane	Ave	2.295	2.415		52.6	50.0	5.2	20.0	
Ethyl ether	Ave	1.187	1.273		53.6	50.0	7.2	20.0	
Acrolein	Ave	0.2021	0.1418		175	250	-29.8	50.0	
1,1-Dichloroethene	Ave	0.9599	1.127	0.1000	58.7	50.0	17.4	20.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.118	1.253	0.1000	56.0	50.0	12.0	20.0	
Acetone	Ave	0.5032	0.5260	0.1000	261	250	4.5	50.0	
Iodomethane	Ave	1.937	1.935		49.9	50.0	-0.1	20.0	
Carbon disulfide	Ave	3.385	3.887	0.1000	57.4	50.0	14.9	20.0	
Allyl chloride	Ave	1.971	2.343		59.4	50.0	18.9	20.0	
Methyl acetate	Ave	1.061	1.138	0.1000	107	100	7.2	50.0	
Methylene Chloride	Lin1		1.347	0.1000	50.9	50.0	1.7	20.0	
2-Methyl-2-propanol	Ave	0.1933	0.1551		401	500	-19.8	50.0	
Methyl tert-butyl ether	Ave	3.729	3.447	0.1000	46.2	50.0	-7.6	20.0	
trans-1,2-Dichloroethene	Ave	1.152	1.270	0.1000	55.2	50.0	10.3	20.0	
Acrylonitrile	Ave	0.5498	0.5781		526	500	5.2	20.0	
Hexane	Ave	1.843	2.418		65.6	50.0	31.2*	20.0	NT
1,1-Dichloroethane	Ave	2.176	2.445	0.2000	56.2	50.0	12.4	20.0	
Vinyl acetate	Ave	2.551	2.688		105	100	5.4	20.0	
2,2-Dichloropropane	Ave	1.314	1.260		48.0	50.0	-4.1	20.0	
cis-1,2-Dichloroethene	Ave	1.322	1.374	0.1000	52.0	50.0	3.9	20.0	
2-Butanone (MEK)	Ave	0.6628	0.7296	0.1000	275	250	10.1	20.0	
Chlorobromomethane	Ave	0.6993	0.6667		47.7	50.0	-4.7	20.0	
Tetrahydrofuran	Ave	0.4504	0.4806		107	100	6.7	20.0	
Chloroform	Ave	2.170	2.193	0.2000	50.5	50.0	1.1	20.0	
1,1,1-Trichloroethane	Ave	1.634	1.761	0.1000	53.9	50.0	7.8	20.0	
Cyclohexane	Ave	2.234	2.836	0.1000	63.5	50.0	27.0*	20.0	
Carbon tetrachloride	Ave	1.408	1.462	0.1000	51.9	50.0	3.8	20.0	
1,1-Dichloropropene	Ave	1.432	1.684		58.8	50.0	17.6	20.0	
Benzene	Ave	4.353	4.718	0.5000	54.2	50.0	8.4	20.0	
Isobutyl alcohol	Ave	0.0714	0.0654		1150	1250	-8.3	50.0	
1,2-Dichloroethane	Ave	1.711	1.777	0.1000	51.9	50.0	3.8	20.0	
n-Heptane	Ave	1.792	2.469		68.9	50.0	37.8*	20.0	NT
Trichloroethene	Ave	1.132	1.230	0.2000	54.3	50.0	8.7	20.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730998/2-A

Matrix: Solid | Lab File ID: M16300.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 11/03/2024 20:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 731000 | Units: ug/Kg

Preparation Batch No.: 730998 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.61
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.39
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.25
78-87-5	1,2-Dichloropropane	5.0	U	5.0	2.5
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.26
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.70
78-93-3	2-Butanone (MEK)	25	U	25	1.8
591-78-6	2-Hexanone	25	U	25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	1.6
67-64-1	Acetone	25	U	25	4.2
71-43-2	Benzene	5.0	U	5.0	0.25
75-27-4	Bromodichloromethane	5.0	U	5.0	0.67
75-25-2	Bromoform	5.0	U	5.0	2.5
74-83-9	Bromomethane	5.0	U	5.0	0.45
75-15-0	Carbon disulfide	5.0	U	5.0	2.5
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.48
108-90-7	Chlorobenzene	5.0	U	5.0	0.66
124-48-1	Dibromochloromethane	5.0	U	5.0	0.64
75-00-3	Chloroethane	5.0	U	5.0	1.1
67-66-3	Chloroform	0.643	J	5.0	0.31
74-87-3	Chloromethane	5.0	U	5.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.72
110-82-7	Cyclohexane	5.0	U	5.0	0.70
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	0.41

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-225023-1

SDG No.:

Lab Sample ID: CCVIS 480-731034/3 | Calibration Date: 11/04/2024 10:37

Instrument ID: HP5973X | Calib Start Date: 10/10/2024 14:18

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 17:13

Lab File ID: X00000033976.d | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.424	1.529	0.0100	43000	40000	7.4	20.0
2-Chloronaphthalene	Ave	1.129	1.208	0.8000	42800	40000	7.0	20.0
2-Nitroaniline	Ave	0.2912	0.3598	0.0100	49400	40000	23.6*	20.0
Dimethyl phthalate	Ave	1.240	1.327	0.0100	42800	40000	7.0	20.0
1,3-Dinitrobenzene	Lin2		0.1214	0.0100	40000	40000	0.0	20.0
2,6-Dinitrotoluene	Lin2		0.3056	0.2000	41000	40000	2.4	20.0
Acenaphthylene	Ave	1.732	1.851	0.9000	42700	40000	6.8	20.0
3-Nitroaniline	Lin2		0.3337	0.0100	40200	40000	0.4	20.0
Acenaphthene	Ave	1.160	1.186	0.9000	40900	40000	2.3	20.0
2,4-Dinitrophenol	Lin2		0.1579	0.0100	81600	80000	2.0	20.0
4-Nitrophenol	Lin2		0.1787	0.0100	85300	80000	6.7	20.0
Dibenzofuran	Ave	1.603	1.600	0.8000	39900	40000	-0.2	20.0
2,4-Dinitrotoluene	Lin2		0.4262	0.2000	42400	40000	6.1	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.3066	0.0100	42100	40000	5.3	20.0
Diethyl phthalate	Ave	1.219	1.342	0.0100	44100	40000	10.1	20.0
Hexadecane	Lin2		0.8551	0.0100	48000	40000	20.0	20.0
Fluorene	Ave	1.298	1.352	0.9000	41600	40000	4.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.6376	0.6691	0.4000	42000	40000	4.9	20.0
4-Nitroaniline	Lin2		0.3127	0.0100	37900	40000	-5.2	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1342	0.0100	82600	80000	3.2	20.0
Diphenylamine	Ave	0.6101	0.6086	0.0100	34100	34200	-0.3	20.0
N-Nitrosodiphenylamine	Ave	0.5217	0.5203	0.0100	39900	40000	-0.3	20.0
1,2-Diphenylhydrazine	Ave	0.7013	0.7767	0.0100	44300	40000	10.8	20.0
trans-Azobenzene	Ave	0.7013	0.7767	0.0100	44300	40000	10.8	20.0
4-Bromophenyl phenyl ether	Ave	0.2076	0.2166	0.1000	41700	40000	4.3	20.0
Hexachlorobenzene	Ave	0.2389	0.2417	0.1000	40500	40000	1.2	20.0
Atrazine	Lin2		0.3870	0.0100	44700	40000	11.8	20.0
Pentachlorophenol	Lin2		0.1362	0.0500	82000	80000	2.4	50.0
n-Octadecane	Lin2		0.4717	0.0100	46200	40000	15.6	20.0
Phenanthrene	Lin2		1.055	0.7000	40400	40000	0.9	20.0
Anthracene	Ave	1.073	1.081	0.7000	40300	40000	0.8	20.0
Carbazole	Ave	0.9349	0.8747	0.0100	37400	40000	-6.4	20.0
Di-n-butyl phthalate	Lin2		1.200	0.0100	42100	40000	5.4	20.0
Fluoranthene	Ave	1.095	1.113	0.6000	40700	40000	1.7	20.0
Benzidine	Lin2		0.8293	0.0100	73500	80000	-8.1	50.0
Pyrene	Ave	1.271	1.338	0.6000	42100	40000	5.3	20.0
Butyl benzyl phthalate	Lin2		0.6043	0.0100	43500	40000	8.6	20.0
3,3'-Dichlorobenzidine	Lin2		0.6058	0.0100	82000	80000	2.5	50.0
Benzo[a]anthracene	Lin2		1.295	0.8000	41800	40000	4.5	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.9100	0.0100	44400	40000	11.0	20.0
Chrysene	Lin2		1.206	0.7000	40000	40000	0.0	20.0

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-225023-1

SDG No.:

Client Sample ID: BH-12 (2-4`) Lab Sample ID: 480-225023-3

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 11/05/2024 11:52 Date Analyzed (2): 11/05/2024 11:52

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
4,4'-DDT	1		5.19	5.17	5.23	3.2		25.9
	2		6.24	6.21	6.27	4.1		

FORM X 8081B

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: BH-11 (0-2`) MS Lab ID: 480-225023-2 MS

Lab Name: Eurofins Buffalo Job No.: 480-225023-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 93.0

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	2811		2360		1060	43	75-125	F1	6010C
Antimony	90.91		17.1	U	104	88	75-125		6010C
Arsenic	172.9		2.3	U	207	83	75-125		6010C
Barium	194.8		12.9		207	88	75-125		6010C
Beryllium	86.41		0.11	J	104	83	75-125		6010C
Cadmium	97.51		0.84		104	93	75-125		6010C
Calcium	211600		192000		5180	388	75-125	4	6010C
Chromium	89.68		4.5		104	82	75-125		6010C
Cobalt	97.32		0.98		104	93	75-125		6010C
Copper	117.0		4.0		104	109	75-125		6010C
Iron	4251		4260		1060	-0.7	75-125	4	6010C
Lead	115.7		16.4		104	96	75-125		6010C
Magnesium	129700		115000		5180	277	75-125	4	6010C
Manganese	691.9		768		104	-74	75-125	4	6010C
Nickel	99.00		2.8	J	104	93	75-125		6010C
Potassium	5551		460		5180	98	75-125		6010C
Selenium	163.7		4.6	U	207	79	75-125		6010C
Silver	9.80		0.68	U	10.4	95	75-125		6010C
Sodium	5217		178		5180	97	75-125		6010C
Thallium	186.0		0.91	J	207	89	75-125		6010C
Vanadium	93.62		4.6		104	86	75-125		6010C
Zinc	156.4		150		104	6	75-125	F1	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: BH-11 (0-2`) MSD Lab ID: 480-225023-2 MSD

Lab Name: Eurofins Buffalo Job No.: 480-225023-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 93.0

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	4076		1060	163	75-125	37	20	F1 F2	6010C
Antimony	85.80		103	83	75-125	6	20		6010C
Arsenic	172.4		207	83	75-125	0	20		6010C
Barium	204.4		207	93	75-125	5	20		6010C
Beryllium	87.27		103	84	75-125	1	20		6010C
Cadmium	96.61		103	93	75-125	1	20		6010C
Calcium	193700		5170	42	75-125	9	20	4	6010C
Chromium	91.04		103	84	75-125	2	20		6010C
Cobalt	98.07		103	94	75-125	1	20		6010C
Copper	116.8		103	109	75-125	0	20		6010C
Iron	5224		1060	91	75-125	21	20	4 F2	6010C
Lead	128.4		103	108	75-125	10	20		6010C
Magnesium	117300		5170	37	75-125	10	20	4	6010C
Manganese	722.5		103	-44	75-125	4	20	4	6010C
Nickel	100.8		103	95	75-125	2	20		6010C
Potassium	5903		5170	105	75-125	6	20		6010C
Selenium	161.8		207	78	75-125	1	20		6010C
Silver	9.73		10.3	94	75-125	1	20		6010C
Sodium	5121		5170	96	75-125	2	20		6010C
Thallium	187.9		207	90	75-125	1	20		6010C
Vanadium	95.59		103	88	75-125	2	20		6010C
Zinc	185.4		103	34	75-125	17	20	F1	6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: BH-11 (0-2`) PDS Lab ID: 480-225023-2 PDS

Lab Name: Eurofins Buffalo Job No.: 480-225023-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	3926		2360		2300	68	80-120	W	6010C
Antimony	105.5		17.1	U	114	93	80-120		6010C
Arsenic	198.6		2.3	U	228	87	80-120		6010C
Barium	221.4		12.9		228	91	80-120		6010C
Beryllium	100.2		0.11	J	114	88	80-120		6010C
Cadmium	111.1		0.84		114	97	80-120		6010C
Calcium	194100		192000		57000	5	80-120	W	6010C
Chromium	102.0		4.5		114	86	80-120		6010C
Cobalt	111.6		0.98		114	97	80-120		6010C
Copper	131.0		4.0		114	111	80-120		6010C
Iron	5513		4260		2300	55	80-120	W	6010C
Lead	128.4		16.4		114	98	80-120		6010C
Magnesium	120800		115000		57000	10	80-120	W	6010C
Manganese	817.4		768		114	43	80-120	W	6010C
Nickel	113.8		2.8	J	114	97	80-120		6010C
Potassium	9199		460		11400	77	80-120	W	6010C
Selenium	187.2		4.6	U	228	82	80-120		6010C
Silver	11.09		0.68	U	11.4	97	80-120		6010C
Sodium	8925		178		11400	77	80-120	W	6010C
Thallium	215.7		0.91	J	228	94	80-120		6010C
Vanadium	107.8		4.6		114	91	80-120		6010C
Zinc	226.4		150		114	67	80-120	W	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

The NEST Site
333 1st Street
Niagara Falls, NY 14303
BCP Site # C932183

SDG: **J225073-1**
6 soil samples

Prepared for:

BE3 Corp.
960 Busti Avenue
Suite 150-B
Buffalo, NY 14213
Attention: Jacob Cox

December 2024

EDU *Environmental Data Usability* *10028 Deer Park Dr. Dansville, NY 14437* *585-991-9156*

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REVIEWER'S NARRATIVE
BE3 SDG J225073-1: The NEST Site – Niagara Falls, NY

The data associated with this Sample Delivery Group (SDG) J225073-1, analyzed by Eurofins Buffalo, Buffalo, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/13/2024

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	The NEST Site 333 1st Street Niagara Falls, NY 14303 BCP Site #: C932183
SAMPLING DATE:	November 01, 2024
SAMPLE TYPE:	6 soil samples
LABORATORY:	Eurofins Buffalo Buffalo, NY
SDG No.:	J225073-1

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 6 soil samples collected on November 01 2024. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), Pesticides, PCBs, Herbicides, PFASs, Metals, TCN, and Hexavalent Chromium (Cr+6).

All analyses were performed by Eurofins Buffalo, Buffalo, NY and analyzed as SDG J225073-1. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-8. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG J225073-1, six samples were analyzed and results were reported for 1178 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have rejected/qualified and the corresponding QC reasons.

NOTE: 1) As noted by the laboratory, the soil samples were not collected following SW846 5035A protocol. This adds an element of uncertainty to the analytical results for volatile organic analytes (VOAs). Although not specifically indicated on the final data sheets with a "J" flag, the VOA analytical results should be considered estimated, but usable.

Table 6-1 8260 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-6 (2-4') BH-3 (2-4') BH-8 (2-6') BH-5 (2-6') BH-9 (4-6')	Chloroform	CRQL-U	Analyte detected in method blank	Data changed to non-detect
BH-6 (2-4') BH-3 (2-4') BH-8 (2-6') BH-5 (2-6') BH-9 (4-6')	Actone Chloroethane Chloromethane Dichlorodifluoromethane	J detects UJ non-detects	CCV % D > 20 % QC limit	Data are estimated

Table 6-2 8270 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-6 (2-4') BH-6 (7-8') NATIVE BH-3 (2-4') BH-8 (2-6') BH-5 (2-6') BH-9 (4-6')	2-Nitroanlinie	J detects UJ non-detects	CCV % D > 20 % QC limit	Data are estimated

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
BH-3 (2-4') BH-9 (4-6')	4,4'-DDT	J detect	% D for 2nd column confirmation > 25 %	Data are estimated

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-5 Herbicides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-8 TCN and Cr+6

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo NY 14213

Generated 11/15/2024 12:30 PM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-225073-1

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.

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716 504-9874

Job Narrative
480-225073-1

Receipt
The samples were received on 11/1/2024 5:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.9º C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: BH-6 (2-4') (480-225073-1), BH-6 (7-8') NATIVE (480-225073-2), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4), BH-5 (2-6') (480-225073-5) and BH-9 (4-6') (480-225073-6). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-731454 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte is detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated samples are: BH-6 (2-4') (480-225073-1), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4), BH-5 (2-6') (480-225073-5) and BH-9 (4-6') (480-225073-6).

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-731419 and analytical batch 480-731454 recovered outside control limits for the following analytes: Acetone. The following associated samples are impacted: BH-6 (2-4') (480-225073-1), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4), BH-5 (2-6') (480-225073-5) and BH-9 (4-6') (480-225073-6)

Method 8260C: The method blank for preparation batch 480-731419 and analytical batch 480-731454 contained Methylene Chloride above the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated sample(s) were not re-analyzed because the concentration of the common lab contaminant in the method blank was less than 5 times the RL. The following samples are affected: BH-6 (2-4') (480-225073-1), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4), BH-5 (2-6') (480-225073-5) and BH-9 (4-6') (480-225073-6).

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 samples were diluted due to color, appearance, and viscosity: BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4) and BH-5 (2-6') (480-225073-5). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-731322 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH-6 (2-4') (480-225073-1), BH-6 (7-8') NATIVE (480-225073-2), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4), BH-5 (2-6') (480-225073-5) and BH-9 (4-6') (480-225073-6).

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

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample matrix: BH-6 (2-4') (480-225073-1), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4) and BH-5 (2-6') (480-225073-5). 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.

Metals
Method 6010C: The low level continuing calibration verification (CCVL) for analytical batch 480-731385 recovered above the upper control limit for (Lead). The sample associated with this CCVL contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (LCSSRM 480-731094/2-A) was not performed.

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

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

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

Organic Prep
Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: BH-6 (2-4') (480-225073-1), BH-3 (2-4') (480-225073-3), BH-8 (2-6') (480-225073-4) and BH-5 (2-6') (480-225073-5).

Method 8151A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparations BH-6 (7-8') NATIVE (480-225073-2).

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225073-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-225073-1	BH-6 (2-4')	Solid	11/01/24 10:30	11/01/24 17:45
480-225073-2	BH-6 (7-8') NATIVE	Solid	11/01/24 10:45	11/01/24 17:45
480-225073-3	BH-3 (2-4')	Solid	11/01/24 11:30	11/01/24 17:45
480-225073-4	BH-8 (2-6')	Solid	11/01/24 14:30	11/01/24 17:45
480-225073-5	BH-5 (2-6')	Solid	11/01/24 16:00	11/01/24 17:45
480-225073-6	BH-9 (4-6')	Solid	11/01/24 16:45	11/01/24 17:45

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: R0836.D

Analysis Method: 8260C | Date Collected: 11/01/2024 10:30

Sample wt/vol: 5.01(g) | Date Analyzed: 11/06/2024 23:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.6 % Solids: 85.4 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.8	U vs	5.8	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U vs	5.8	0.95	
79-00-5	1,1,2-Trichloroethane	5.8	U vs	5.8	0.76	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U vs	5.8	1.3	
75-34-3	1,1-Dichloroethane	5.8	U vs	5.8	0.71	
75-35-4	1,1-Dichloroethene	5.8	U vs	5.8	0.72	
120-82-1	1,2,4-Trichlorobenzene	5.8	U vs	5.8	0.36	
96-12-8	1,2-Dibromo-3-Chloropropane	5.8	U vs	5.8	2.9	
95-50-1	1,2-Dichlorobenzene	5.8	U vs	5.8	0.46	
107-06-2	1,2-Dichloroethane	5.8	U vs	5.8	0.29	
78-87-5	1,2-Dichloropropane	5.8	U vs	5.8	2.9	
541-73-1	1,3-Dichlorobenzene	5.8	U vs	5.8	0.30	
106-46-7	1,4-Dichlorobenzene	5.8	U vs	5.8	0.82	
78-93-3	2-Butanone (MEK)	29	U vs	29	2.1	
591-78-6	2-Hexanone	29	U vs	29	2.9	
108-10-1	4-Methyl-2-pentanone (MIBK)	29	U vs	29	1.9	
67-64-1	Acetone	8.0	J *1 vs	29	4.9	J
71-43-2	Benzene	5.8	U vs	5.8	0.29	
75-27-4	Bromodichloromethane	5.8	U vs	5.8	0.78	
75-25-2	Bromoform	5.8	U vs	5.8	2.9	
74-83-9	Bromomethane	5.8	U vs	5.8	0.53	
75-15-0	Carbon disulfide	5.8	U vs	5.8	2.9	
56-23-5	Carbon tetrachloride	5.8	U vs	5.8	0.57	
108-90-7	Chlorobenzene	5.8	U vs	5.8	0.77	
124-48-1	Dibromochloromethane	5.8	U vs	5.8	0.75	
75-00-3	Chloroethane	5.8	U vs	5.8	1.3	UJ
67-66-3	Chloroform	5.8 UJ 0.78	J B vs	5.8	0.36	UJ
74-87-3	Chloromethane	5.8	U vs	5.8	0.35	UJ
156-59-2	cis-1,2-Dichloroethene	5.8	U vs	5.8	0.75	
10061-01-5	cis-1,3-Dichloropropene	5.8	U vs	5.8	0.84	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: R0836.D

Analysis Method: 8260C | Date Collected: 11/01/2024 10:30

Sample wt/vol: 5.01(g) | Date Analyzed: 11/06/2024 23:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.6 % Solids: 85.4 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
110-82-7	Cyclohexane	5.8	U vs	5.8	0.82	
75-71-8	Dichlorodifluoromethane	5.8	U vs	5.8	0.48	UJ
100-41-4	Ethylbenzene	5.8	U vs	5.8	0.40	
106-93-4	1,2-Dibromoethane	5.8	U vs	5.8	0.75	
98-82-8	Isopropylbenzene	5.8	U vs	5.8	0.88	
79-20-9	Methyl acetate	29	U vs	29	3.5	
1634-04-4	Methyl tert-butyl ether	5.8	U vs	5.8	0.57	
108-87-2	Methylcyclohexane	5.8	U vs	5.8	0.89	
75-09-2	Methylene Chloride	23	B vs	5.8	2.7	
100-42-5	Styrene	5.8	U vs	5.8	0.29	
127-18-4	Tetrachloroethene	5.8	U vs	5.8	0.78	
108-88-3	Toluene	0.44	J vs	5.8	0.44	
156-60-5	trans-1,2-Dichloroethene	5.8	U vs	5.8	0.60	
10061-02-6	trans-1,3-Dichloropropene	5.8	U vs	5.8	2.6	
79-01-6	Trichloroethene	5.8	U vs	5.8	1.3	
75-69-4	Trichlorofluoromethane	5.8	U vs	5.8	0.55	
75-01-4	Vinyl chloride	5.8	U vs	5.8	0.71	
1330-20-7	Xylenes, Total	12	U vs	12	0.98	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		64-126
460-00-4	4-Bromofluorobenzene (Surr)	85		72-126
1868-53-7	Dibromofluoromethane (Surr)	93		60-140

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: R0836.D

Analysis Method: 8260C | Date Collected: 11/01/2024 10:30

Sample wt/vol: 5.01(g) | Date Analyzed: 11/06/2024 23:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.6 % Solids: 85.4 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: R0837.D

Analysis Method: 8260C | Date Collected: 11/01/2024 11:30

Sample wt/vol: 5.17(g) | Date Analyzed: 11/06/2024 23:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 9.2 % Solids: 90.8 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.3	U vs	5.3	0.39	
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U vs	5.3	0.86	
79-00-5	1,1,2-Trichloroethane	5.3	U vs	5.3	0.69	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U vs	5.3	1.2	
75-34-3	1,1-Dichloroethane	5.3	U vs	5.3	0.65	
75-35-4	1,1-Dichloroethene	5.3	U vs	5.3	0.65	
120-82-1	1,2,4-Trichlorobenzene	5.3	U vs	5.3	0.32	
96-12-8	1,2-Dibromo-3-Chloropropane	5.3	U vs	5.3	2.7	
95-50-1	1,2-Dichlorobenzene	5.3	U vs	5.3	0.42	
107-06-2	1,2-Dichloroethane	5.3	U vs	5.3	0.27	
78-87-5	1,2-Dichloropropane	5.3	U vs	5.3	2.7	
541-73-1	1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	
106-46-7	1,4-Dichlorobenzene	5.3	U vs	5.3	0.75	
78-93-3	2-Butanone (MEK)	27	U vs	27	1.9	
591-78-6	2-Hexanone	27	U vs	27	2.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.7	
67-64-1	Acetone	9.1	J *1 vs	27	4.5	J
71-43-2	Benzene	0.27	J vs	5.3	0.26	
75-27-4	Bromodichloromethane	5.3	U vs	5.3	0.71	
75-25-2	Bromoform	5.3	U vs	5.3	2.7	
74-83-9	Bromomethane	5.3	U vs	5.3	0.48	
75-15-0	Carbon disulfide	5.3	U vs	5.3	2.7	
56-23-5	Carbon tetrachloride	5.3	U vs	5.3	0.52	
108-90-7	Chlorobenzene	5.3	U vs	5.3	0.70	
124-48-1	Dibromochloromethane	5.3	U vs	5.3	0.68	
75-00-3	Chloroethane	5.3	U vs	5.3	1.2	UJ
67-66-3	Chloroform	5.3 UJ 0.64	J B vs	5.3	0.33	UJ
74-87-3	Chloromethane	5.3	U vs	5.3	0.32	UJ
156-59-2	cis-1,2-Dichloroethene	5.3	U vs	5.3	0.68	
10061-01-5	cis-1,3-Dichloropropene	5.3	U vs	5.3	0.77	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: R0837.D

Analysis Method: 8260C | Date Collected: 11/01/2024 11:30

Sample wt/vol: 5.17(g) | Date Analyzed: 11/06/2024 23:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 9.2 % Solids: 90.8 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
110-82-7	Cyclohexane	5.3	U vs	5.3	0.75	
75-71-8	Dichlorodifluoromethane	5.3	U vs	5.3	0.44	UJ
100-41-4	Ethylbenzene	5.3	U vs	5.3	0.37	
106-93-4	1,2-Dibromoethane	5.3	U vs	5.3	0.68	
98-82-8	Isopropylbenzene	5.3	U vs	5.3	0.80	
79-20-9	Methyl acetate	27	U vs	27	3.2	
1634-04-4	Methyl tert-butyl ether	5.3	U vs	5.3	0.52	
108-87-2	Methylcyclohexane	5.3	U vs	5.3	0.81	
75-09-2	Methylene Chloride	19	B vs	5.3	2.4	
100-42-5	Styrene	5.3	U vs	5.3	0.27	
127-18-4	Tetrachloroethene	5.3	U vs	5.3	0.71	
108-88-3	Toluene	1.1	J vs	5.3	0.40	
156-60-5	trans-1,2-Dichloroethene	5.3	U vs	5.3	0.55	
10061-02-6	trans-1,3-Dichloropropene	5.3	U vs	5.3	2.3	
79-01-6	Trichloroethene	5.3	U vs	5.3	1.2	
75-69-4	Trichlorofluoromethane	5.3	U vs	5.3	0.50	
75-01-4	Vinyl chloride	5.3	U vs	5.3	0.65	
1330-20-7	Xylenes, Total	0.89	J vs	11	0.89	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		64-126
460-00-4	4-Bromofluorobenzene (Surr)	81		72-126
1868-53-7	Dibromofluoromethane (Surr)	93		60-140

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: R0837.D

Analysis Method: 8260C | Date Collected: 11/01/2024 11:30

Sample wt/vol: 5.17(g) | Date Analyzed: 11/06/2024 23:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 9.2 % Solids: 90.8 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

Number TICs Found: 1 | TIC Result Total: 0.89

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
179601-23-1	m-Xylene & p-Xylene	8.48	0.89	J	96%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: R0838.D

Analysis Method: 8260C | Date Collected: 11/01/2024 14:30

Sample wt/vol: 5.03(g) | Date Analyzed: 11/07/2024 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 7.6 % Solids: 92.4 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.4	U vs	5.4	0.39	
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U vs	5.4	0.87	
79-00-5	1,1,2-Trichloroethane	5.4	U vs	5.4	0.70	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U vs	5.4	1.2	
75-34-3	1,1-Dichloroethane	5.4	U vs	5.4	0.66	
75-35-4	1,1-Dichloroethene	5.4	U vs	5.4	0.66	
120-82-1	1,2,4-Trichlorobenzene	5.4	U vs	5.4	0.33	
96-12-8	1,2-Dibromo-3-Chloropropane	5.4	U vs	5.4	2.7	
95-50-1	1,2-Dichlorobenzene	5.4	U vs	5.4	0.42	
107-06-2	1,2-Dichloroethane	5.4	U vs	5.4	0.27	
78-87-5	1,2-Dichloropropane	5.4	U vs	5.4	2.7	
541-73-1	1,3-Dichlorobenzene	5.4	U vs	5.4	0.28	
106-46-7	1,4-Dichlorobenzene	5.4	U vs	5.4	0.75	
78-93-3	2-Butanone (MEK)	27	U vs	27	2.0	
591-78-6	2-Hexanone	27	U vs	27	2.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	27	U vs	27	1.8	
67-64-1	Acetone	5.9	J *1 vs	27	4.5	J
71-43-2	Benzene	5.4	U vs	5.4	0.26	
75-27-4	Bromodichloromethane	5.4	U vs	5.4	0.72	
75-25-2	Bromoform	5.4	U vs	5.4	2.7	
74-83-9	Bromomethane	5.4	U vs	5.4	0.48	
75-15-0	Carbon disulfide	5.4	U vs	5.4	2.7	
56-23-5	Carbon tetrachloride	5.4	U vs	5.4	0.52	
108-90-7	Chlorobenzene	5.4	U vs	5.4	0.71	
124-48-1	Dibromochloromethane	5.4	U vs	5.4	0.69	
75-00-3	Chloroethane	5.4	U vs	5.4	1.2	UJ
67-66-3	Chloroform	5.4 UJ ~~0.70~~	~~J B~~ vs	5.4	0.33	UJ
74-87-3	Chloromethane	5.4	U vs	5.4	0.32	UJ
156-59-2	cis-1,2-Dichloroethene	5.4	U vs	5.4	0.69	
10061-01-5	cis-1,3-Dichloropropene	5.4	U vs	5.4	0.77	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: R0838.D

Analysis Method: 8260C | Date Collected: 11/01/2024 14:30

Sample wt/vol: 5.03(g) | Date Analyzed: 11/07/2024 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 7.6 % Solids: 92.4 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
110-82-7	Cyclohexane	5.4	U vs	5.4	0.75	
75-71-8	Dichlorodifluoromethane	5.4	U vs	5.4	0.44	UJ
100-41-4	Ethylbenzene	5.4	U vs	5.4	0.37	
106-93-4	1,2-Dibromoethane	5.4	U vs	5.4	0.69	
98-82-8	Isopropylbenzene	5.4	U vs	5.4	0.81	
79-20-9	Methyl acetate	27	U vs	27	3.2	
1634-04-4	Methyl tert-butyl ether	5.4	U vs	5.4	0.53	
108-87-2	Methylcyclohexane	5.4	U vs	5.4	0.82	
75-09-2	Methylene Chloride	19	B vs	5.4	2.5	
100-42-5	Styrene	5.4	U vs	5.4	0.27	
127-18-4	Tetrachloroethene	5.4	U vs	5.4	0.72	
108-88-3	Toluene	0.68	J vs	5.4	0.41	
156-60-5	trans-1,2-Dichloroethene	5.4	U vs	5.4	0.56	
10061-02-6	trans-1,3-Dichloropropene	5.4	U vs	5.4	2.4	
79-01-6	Trichloroethene	5.4	U vs	5.4	1.2	
75-69-4	Trichlorofluoromethane	5.4	U vs	5.4	0.51	
75-01-4	Vinyl chloride	5.4	U vs	5.4	0.66	
1330-20-7	Xylenes, Total	1.2	J vs	11	0.90	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-126
460-00-4	4-Bromofluorobenzene (Surr)	89		72-126
1868-53-7	Dibromofluoromethane (Surr)	96		60-140

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GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: R0838.D

Analysis Method: 8260C | Date Collected: 11/01/2024 14:30

Sample wt/vol: 5.03(g) | Date Analyzed: 11/07/2024 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 7.6 % Solids: 92.4 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

Number TICs Found: 1 | TIC Result Total: 1.2

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
179601-23-1	m-Xylene & p-Xylene	8.48	1.2	J	98%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: R0839.D

Analysis Method: 8260C | Date Collected: 11/01/2024 16:00

Sample wt/vol: 5.06(g) | Date Analyzed: 11/07/2024 00:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 4.0 % Solids: 96.0 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.1	U vs	5.1	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U vs	5.1	0.83	
79-00-5	1,1,2-Trichloroethane	5.1	U vs	5.1	0.67	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U vs	5.1	1.2	
75-34-3	1,1-Dichloroethane	5.1	U vs	5.1	0.63	
75-35-4	1,1-Dichloroethene	5.1	U vs	5.1	0.63	
120-82-1	1,2,4-Trichlorobenzene	5.1	U vs	5.1	0.31	
96-12-8	1,2-Dibromo-3-Chloropropane	5.1	U vs	5.1	2.6	
95-50-1	1,2-Dichlorobenzene	5.1	U vs	5.1	0.40	
107-06-2	1,2-Dichloroethane	5.1	U vs	5.1	0.26	
78-87-5	1,2-Dichloropropane	5.1	U vs	5.1	2.6	
541-73-1	1,3-Dichlorobenzene	5.1	U vs	5.1	0.26	
106-46-7	1,4-Dichlorobenzene	5.1	U vs	5.1	0.72	
78-93-3	2-Butanone (MEK)	26	U vs	26	1.9	
591-78-6	2-Hexanone	26	U vs	26	2.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U vs	26	1.7	
67-64-1	Acetone	26	U vs *1	26	4.3	UJ
71-43-2	Benzene	0.31	J vs	5.1	0.25	
75-27-4	Bromodichloromethane	5.1	U vs	5.1	0.69	
75-25-2	Bromoform	5.1	U vs	5.1	2.6	
74-83-9	Bromomethane	5.1	U vs	5.1	0.46	
75-15-0	Carbon disulfide	5.1	U vs	5.1	2.6	
56-23-5	Carbon tetrachloride	5.1	U vs	5.1	0.50	
108-90-7	Chlorobenzene	5.1	U vs	5.1	0.68	
124-48-1	Dibromochloromethane	5.1	U vs	5.1	0.66	
75-00-3	Chloroethane	5.1	U vs	5.1	1.2	UJ
67-66-3	Chloroform	5.1 UJ ~~0.67~~	J vs B	5.1	0.32	UJ
74-87-3	Chloromethane	5.1	U vs	5.1	0.31	UJ
156-59-2	cis-1,2-Dichloroethene	5.1	U vs	5.1	0.66	
10061-01-5	cis-1,3-Dichloropropene	5.1	U vs	5.1	0.74	

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GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: R0839.D

Analysis Method: 8260C | Date Collected: 11/01/2024 16:00

Sample wt/vol: 5.06(g) | Date Analyzed: 11/07/2024 00:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 4.0 % Solids: 96.0 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
110-82-7	Cyclohexane	5.1	U vs	5.1	0.72	
75-71-8	Dichlorodifluoromethane	5.1	U vs	5.1	0.43	UJ
100-41-4	Ethylbenzene	1.5	J vs	5.1	0.36	
106-93-4	1,2-Dibromoethane	5.1	U vs	5.1	0.66	
98-82-8	Isopropylbenzene	5.1	U vs	5.1	0.78	
79-20-9	Methyl acetate	26	U vs	26	3.1	
1634-04-4	Methyl tert-butyl ether	5.1	U vs	5.1	0.51	
108-87-2	Methylcyclohexane	5.1	U vs	5.1	0.78	
75-09-2	Methylene Chloride	13	vs B	5.1	2.4	
100-42-5	Styrene	5.1	U vs	5.1	0.26	
127-18-4	Tetrachloroethene	5.1	U vs	5.1	0.69	
108-88-3	Toluene	3.5	J vs	5.1	0.39	
156-60-5	trans-1,2-Dichloroethene	5.1	U vs	5.1	0.53	
10061-02-6	trans-1,3-Dichloropropene	5.1	U vs	5.1	2.3	
79-01-6	Trichloroethene	5.1	U vs	5.1	1.1	
75-69-4	Trichlorofluoromethane	5.1	U vs	5.1	0.49	
75-01-4	Vinyl chloride	5.1	U vs	5.1	0.63	
1330-20-7	Xylenes, Total	16	vs	10	0.86	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		64-126
460-00-4	4-Bromofluorobenzene (Surr)	91		72-126
1868-53-7	Dibromofluoromethane (Surr)	92		60-140

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: R0839.D

Analysis Method: 8260C | Date Collected: 11/01/2024 16:00

Sample wt/vol: 5.06(g) | Date Analyzed: 11/07/2024 00:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 4.0 % Solids: 96.0 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

Number TICs Found: 6 | TIC Result Total: 56.6

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
179601-23-1	m-Xylene & p-Xylene	8.48	12		98%
95-47-6	o-Xylene	8.90	3.9	J	99%
611-14-3	Benzene, 1-ethyl-2-methyl-	9.82	6.8	T J N	94%
95-63-6	Benzene, 1,2,4-trimethyl-	9.90	6.3	T J N	94%
108-67-8	Benzene, 1,3,5-trimethyl-	10.28	22	T J N	95%
526-73-8	Benzene, 1,2,3-trimethyl-	10.69	5.6	T J N	97%

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GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: R0835.D

Analysis Method: 8260C | Date Collected: 11/01/2024 16:45

Sample wt/vol: 5.1(g) | Date Analyzed: 11/06/2024 22:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.8 % Solids: 85.2 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.8	U vs	5.8	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U vs	5.8	0.93	
79-00-5	1,1,2-Trichloroethane	5.8	U vs	5.8	0.75	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U vs	5.8	1.3	
75-34-3	1,1-Dichloroethane	5.8	U vs	5.8	0.70	
75-35-4	1,1-Dichloroethene	5.8	U vs	5.8	0.70	
120-82-1	1,2,4-Trichlorobenzene	5.8	U vs	5.8	0.35	
96-12-8	1,2-Dibromo-3-Chloropropane	5.8	U vs	5.8	2.9	
95-50-1	1,2-Dichlorobenzene	5.8	U vs	5.8	0.45	
107-06-2	1,2-Dichloroethane	5.8	U vs	5.8	0.29	
78-87-5	1,2-Dichloropropane	5.8	U vs	5.8	2.9	
541-73-1	1,3-Dichlorobenzene	5.8	U vs	5.8	0.30	
106-46-7	1,4-Dichlorobenzene	5.8	U vs	5.8	0.81	
78-93-3	2-Butanone (MEK)	29	U vs	29	2.1	
591-78-6	2-Hexanone	29	U vs	29	2.9	
108-10-1	4-Methyl-2-pentanone (MIBK)	29	U vs	29	1.9	
67-64-1	Acetone	7.0	J vs *1	29	4.8	J
71-43-2	Benzene	0.38	J vs	5.8	0.28	
75-27-4	Bromodichloromethane	5.8	U vs	5.8	0.77	
75-25-2	Bromoform	5.8	U vs	5.8	2.9	
74-83-9	Bromomethane	5.8	U vs	5.8	0.52	
75-15-0	Carbon disulfide	5.8	U vs	5.8	2.9	
56-23-5	Carbon tetrachloride	5.8	U vs	5.8	0.56	
108-90-7	Chlorobenzene	5.8	U vs	5.8	0.76	
124-48-1	Dibromochloromethane	5.8	U vs	5.8	0.74	
75-00-3	Chloroethane	5.8	U vs	5.8	1.3	UJ
67-66-3	Chloroform	5.8 UJ 0.62	J vs B	5.8	0.36	UJ
74-87-3	Chloromethane	5.8	U vs	5.8	0.35	UJ
156-59-2	cis-1,2-Dichloroethene	5.8	U vs	5.8	0.74	
10061-01-5	cis-1,3-Dichloropropene	5.8	U vs	5.8	0.83	

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GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: R0835.D

Analysis Method: 8260C | Date Collected: 11/01/2024 16:45

Sample wt/vol: 5.1(g) | Date Analyzed: 11/06/2024 22:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.8 % Solids: 85.2 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
110-82-7	Cyclohexane	5.8	U vs	5.8	0.81	
75-71-8	Dichlorodifluoromethane	5.8	U vs	5.8	0.48	UJ
100-41-4	Ethylbenzene	0.70	J vs	5.8	0.40	
106-93-4	1,2-Dibromoethane	5.8	U vs	5.8	0.74	
98-82-8	Isopropylbenzene	5.8	U vs	5.8	0.87	
79-20-9	Methyl acetate	3.9	J vs	29	3.5	
1634-04-4	Methyl tert-butyl ether	5.8	U vs	5.8	0.56	
108-87-2	Methylcyclohexane	1.5	J vs	5.8	0.87	
75-09-2	Methylene Chloride	17	vs B	5.8	2.6	
100-42-5	Styrene	5.8	U vs	5.8	0.29	
127-18-4	Tetrachloroethene	5.8	U vs	5.8	0.77	
108-88-3	Toluene	2.1	J vs	5.8	0.43	
156-60-5	trans-1,2-Dichloroethene	5.8	U vs	5.8	0.59	
10061-02-6	trans-1,3-Dichloropropene	5.8	U vs	5.8	2.5	
79-01-6	Trichloroethene	5.8	U vs	5.8	1.3	
75-69-4	Trichlorofluoromethane	5.8	U vs	5.8	0.54	
75-01-4	Vinyl chloride	5.8	U vs	5.8	0.70	
1330-20-7	Xylenes, Total	3.9	J vs	12	0.97	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		64-126
460-00-4	4-Bromofluorobenzene (Surr)	87		72-126
1868-53-7	Dibromofluoromethane (Surr)	92		60-140

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: R0835.D

Analysis Method: 8260C | Date Collected: 11/01/2024 16:45

Sample wt/vol: 5.1(g) | Date Analyzed: 11/06/2024 22:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.8 % Solids: 85.2 | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

Number TICs Found: 2 | TIC Result Total: 3.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
179601-23-1	m-Xylene & p-Xylene	8.48	2.7	J	96%
95-47-6	o-Xylene	8.90	1.2	J	97%

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: X00000034034.d

Analysis Method: 8270D | Date Collected: 11/01/2024 10:30

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.60(g) | Date Analyzed: 11/06/2024 16:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 14.6 % Solids: 85.4 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	110	U	110	63	
95-95-4	2,4,5-Trichlorophenol	200	U	200	53	
88-06-2	2,4,6-Trichlorophenol	200	U	200	39	
120-83-2	2,4-Dichlorophenol	200	U	200	21	
105-67-9	2,4-Dimethylphenol	200	U	200	47	
51-28-5	2,4-Dinitrophenol	1900	U	1900	900	
121-14-2	2,4-Dinitrotoluene	200	U	200	40	
606-20-2	2,6-Dinitrotoluene	200	U	200	23	
91-58-7	2-Chloronaphthalene	200	U	200	32	
95-57-8	2-Chlorophenol	380	U	380	36	
91-57-6	2-Methylnaphthalene	200	U	200	39	
95-48-7	2-Methylphenol	200	U	200	23	
88-74-4	2-Nitroaniline	380	U	380	29	UJ
88-75-5	2-Nitrophenol	200	U	200	55	
91-94-1	3,3'-Dichlorobenzidine	380	U	380	230	
99-09-2	3-Nitroaniline	380	U	380	54	
534-52-1	4,6-Dinitro-2-methylphenol	380	U	380	200	
101-55-3	4-Bromophenyl phenyl ether	200	U	200	28	
59-50-7	4-Chloro-3-methylphenol	200	U	200	48	
106-47-8	4-Chloroaniline	200	U	200	48	
7005-72-3	4-Chlorophenyl phenyl ether	200	U	200	24	
106-44-5	4-Methylphenol	380	U	380	23	
100-01-6	4-Nitroaniline	380	U	380	100	
100-02-7	4-Nitrophenol	380	U	380	140	
83-32-9	Acenaphthene	200	U	200	29	
208-96-8	Acenaphthylene	29	J	200	25	
98-86-2	Acetophenone	200	U	200	26	
120-12-7	Anthracene	86	J	200	48	
1912-24-9	Atrazine	200	U	200	68	
100-52-7	Benzaldehyde	200	U	200	160	
56-55-3	Benzo[a]anthracene	280		200	20	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: X00000034034.d

Analysis Method: 8270D | Date Collected: 11/01/2024 10:30

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.60(g) | Date Analyzed: 11/06/2024 16:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 14.6 % Solids: 85.4 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	280		200	29
205-99-2	Benzo[b]fluoranthene	300		200	31
191-24-2	Benzo[g,h,i]perylene	180	J	200	21
207-08-9	Benzo[k]fluoranthene	150	J	200	25
92-52-4	Biphenyl	200	U	200	29
108-60-1	bis (2-chloroisopropyl) ether	200	U	200	39
111-91-1	Bis(2-chloroethoxy)methane	200	U	200	41
111-44-4	Bis(2-chloroethyl)ether	200	U	200	25
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	200	67
85-68-7	Butyl benzyl phthalate	200	U	200	32
105-60-2	Caprolactam	200	U	200	59
86-74-8	Carbazole	31	J	200	23
218-01-9	Chrysene	270		200	44
53-70-3	Dibenz(a,h)anthracene	50	J	200	34
132-64-9	Dibenzofuran	200	U	200	23
84-66-2	Diethyl phthalate	200	U	200	25
131-11-3	Dimethyl phthalate	200	U	200	23
84-74-2	Di-n-butyl phthalate	200	U	200	33
117-84-0	Di-n-octyl phthalate	200	U	200	23
206-44-0	Fluoranthene	550		200	21
86-73-7	Fluorene	26	J	200	23
118-74-1	Hexachlorobenzene	200	U	200	26
87-68-3	Hexachlorobutadiene	200	U	200	29
77-47-4	Hexachlorocyclopentadiene	200	U	200	26
67-72-1	Hexachloroethane	200	U	200	25
193-39-5	Indeno[1,2,3-cd]pyrene	140	J	200	24
78-59-1	Isophorone	200	U	200	41
91-20-3	Naphthalene	200	U	200	25
98-95-3	Nitrobenzene	200	U	200	22
621-64-7	N-Nitrosodi-n-propylamine	200	U	200	33
86-30-6	N-Nitrosodiphenylamine	200	U	200	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: X00000034034.d

Analysis Method: 8270D | Date Collected: 11/01/2024 10:30

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.60(g) | Date Analyzed: 11/06/2024 16:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 14.6 % Solids: 85.4 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	380	U	380	200
85-01-8	Phenanthrene	400		200	29
108-95-2	Phenol	200	U	200	30
129-00-0	Pyrene	530		200	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	67		26-143
321-60-8	2-Fluorobiphenyl (Surr)	59		50-121
367-12-4	2-Fluorophenol (Surr)	59		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	56		40-121
4165-62-2	Phenol-d5 (Surr)	62		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	73		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (7-8') NATIVE | Lab Sample ID: 480-225073-2

Matrix: Solid | Lab File ID: X00000034035.d

Analysis Method: 8270D | Date Collected: 11/01/2024 10:45

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.71(g) | Date Analyzed: 11/06/2024 16:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 13.3 % Solids: 86.7 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	110	U	110	62	
95-95-4	2,4,5-Trichlorophenol	190	U	190	52	
88-06-2	2,4,6-Trichlorophenol	190	U	190	38	
120-83-2	2,4-Dichlorophenol	190	U	190	20	
105-67-9	2,4-Dimethylphenol	190	U	190	46	
51-28-5	2,4-Dinitrophenol	1900	U	1900	880	
121-14-2	2,4-Dinitrotoluene	190	U	190	39	
606-20-2	2,6-Dinitrotoluene	190	U	190	23	
91-58-7	2-Chloronaphthalene	190	U	190	32	
95-57-8	2-Chlorophenol	370	U	370	35	
91-57-6	2-Methylnaphthalene	190	U	190	38	
95-48-7	2-Methylphenol	190	U	190	23	
88-74-4	2-Nitroaniline	370	U	370	28	UJ
88-75-5	2-Nitrophenol	190	U	190	54	
91-94-1	3,3'-Dichlorobenzidine	370	U	370	230	
99-09-2	3-Nitroaniline	370	U	370	53	
534-52-1	4,6-Dinitro-2-methylphenol	370	U	370	190	
101-55-3	4-Bromophenyl phenyl ether	190	U	190	27	
59-50-7	4-Chloro-3-methylphenol	190	U	190	47	
106-47-8	4-Chloroaniline	190	U	190	47	
7005-72-3	4-Chlorophenyl phenyl ether	190	U	190	24	
106-44-5	4-Methylphenol	370	U	370	23	
100-01-6	4-Nitroaniline	370	U	370	100	
100-02-7	4-Nitrophenol	370	U	370	130	
83-32-9	Acenaphthene	190	U	190	28	
208-96-8	Acenaphthylene	190	U	190	25	
98-86-2	Acetophenone	190	U	190	26	
120-12-7	Anthracene	190	U	190	47	
1912-24-9	Atrazine	190	U	190	66	
100-52-7	Benzaldehyde	190	U	190	150	
56-55-3	Benzo[a]anthracene	190	U	190	19	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (7-8') NATIVE | Lab Sample ID: 480-225073-2

Matrix: Solid | Lab File ID: X00000034035.d

Analysis Method: 8270D | Date Collected: 11/01/2024 10:45

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.71(g) | Date Analyzed: 11/06/2024 16:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 13.3 % Solids: 86.7 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	190	U	190	28
205-99-2	Benzo[b]fluoranthene	190	U	190	30
191-24-2	Benzo[g,h,i]perylene	190	U	190	20
207-08-9	Benzo[k]fluoranthene	190	U	190	25
92-52-4	Biphenyl	190	U	190	28
108-60-1	bis (2-chloroisopropyl) ether	190	U	190	38
111-91-1	Bis(2-chloroethoxy)methane	190	U	190	41
111-44-4	Bis(2-chloroethyl)ether	190	U	190	25
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	190	65
85-68-7	Butyl benzyl phthalate	190	U	190	32
105-60-2	Caprolactam	190	U	190	57
86-74-8	Carbazole	190	U	190	23
218-01-9	Chrysene	190	U	190	43
53-70-3	Dibenz(a,h)anthracene	190	U	190	34
132-64-9	Dibenzofuran	190	U	190	23
84-66-2	Diethyl phthalate	190	U	190	25
131-11-3	Dimethyl phthalate	190	U	190	23
84-74-2	Di-n-butyl phthalate	190	U	190	33
117-84-0	Di-n-octyl phthalate	190	U	190	23
206-44-0	Fluoranthene	190	U	190	20
86-73-7	Fluorene	190	U	190	23
118-74-1	Hexachlorobenzene	190	U	190	26
87-68-3	Hexachlorobutadiene	190	U	190	28
77-47-4	Hexachlorocyclopentadiene	190	U	190	26
67-72-1	Hexachloroethane	190	U	190	25
193-39-5	Indeno[1,2,3-cd]pyrene	190	U	190	24
78-59-1	Isophorone	190	U	190	41
91-20-3	Naphthalene	190	U	190	25
98-95-3	Nitrobenzene	190	U	190	21
621-64-7	N-Nitrosodi-n-propylamine	190	U	190	33
86-30-6	N-Nitrosodiphenylamine	190	U	190	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (7-8') NATIVE | Lab Sample ID: 480-225073-2

Matrix: Solid | Lab File ID: X00000034035.d

Analysis Method: 8270D | Date Collected: 11/01/2024 10:45

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.71(g) | Date Analyzed: 11/06/2024 16:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 13.3 % Solids: 86.7 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	370	U	370	190
85-01-8	Phenanthrene	190	U	190	28
108-95-2	Phenol	190	U	190	29
129-00-0	Pyrene	190	U	190	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	78		26-143
321-60-8	2-Fluorobiphenyl (Surr)	80		50-121
367-12-4	2-Fluorophenol (Surr)	86		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	80		40-121
4165-62-2	Phenol-d5 (Surr)	84		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	85		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: X00000034036.d

Analysis Method: 8270D | Date Collected: 11/01/2024 11:30

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.37(g) | Date Analyzed: 11/06/2024 17:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	1100	U	1100	600	
95-95-4	2,4,5-Trichlorophenol	1800	U	1800	500	
88-06-2	2,4,6-Trichlorophenol	1800	U	1800	370	
120-83-2	2,4-Dichlorophenol	1800	U	1800	200	
105-67-9	2,4-Dimethylphenol	1800	U	1800	450	
51-28-5	2,4-Dinitrophenol	18000	U	18000	8500	
121-14-2	2,4-Dinitrotoluene	1800	U	1800	380	
606-20-2	2,6-Dinitrotoluene	1800	U	1800	220	
91-58-7	2-Chloronaphthalene	1800	U	1800	300	
95-57-8	2-Chlorophenol	3600	U	3600	340	
91-57-6	2-Methylnaphthalene	1800	U	1800	370	
95-48-7	2-Methylphenol	1800	U	1800	220	
88-74-4	2-Nitroaniline	3600	U	3600	270	UJ
88-75-5	2-Nitrophenol	1800	U	1800	520	
91-94-1	3,3'-Dichlorobenzidine	3600	U	3600	2200	
99-09-2	3-Nitroaniline	3600	U	3600	510	
534-52-1	4,6-Dinitro-2-methylphenol	3600	U	3600	1800	
101-55-3	4-Bromophenyl phenyl ether	1800	U	1800	260	
59-50-7	4-Chloro-3-methylphenol	1800	U	1800	460	
106-47-8	4-Chloroaniline	1800	U	1800	460	
7005-72-3	4-Chlorophenyl phenyl ether	1800	U	1800	230	
106-44-5	4-Methylphenol	3600	U	3600	220	
100-01-6	4-Nitroaniline	3600	U	3600	970	
100-02-7	4-Nitrophenol	3600	U	3600	1300	
83-32-9	Acenaphthene	480	J	1800	270	
208-96-8	Acenaphthylene	320	J	1800	240	
98-86-2	Acetophenone	1800	U	1800	250	
120-12-7	Anthracene	1700	J	1800	460	
1912-24-9	Atrazine	1800	U	1800	640	
100-52-7	Benzaldehyde	1800	U	1800	1500	
56-55-3	Benzo[a]anthracene	7300		1800	180	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: X00000034036.d

Analysis Method: 8270D | Date Collected: 11/01/2024 11:30

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.37(g) | Date Analyzed: 11/06/2024 17:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	8300		1800	270
205-99-2	Benzo[b]fluoranthene	9800		1800	290
191-24-2	Benzo[g,h,i]perylene	4900		1800	200
207-08-9	Benzo[k]fluoranthene	3400		1800	240
92-52-4	Biphenyl	1800	U	1800	270
108-60-1	bis (2-chloroisopropyl) ether	1800	U	1800	370
111-91-1	Bis(2-chloroethoxy)methane	1800	U	1800	390
111-44-4	Bis(2-chloroethyl)ether	1800	U	1800	240
117-81-7	Bis(2-ethylhexyl) phthalate	1800	U	1800	630
85-68-7	Butyl benzyl phthalate	1800	U	1800	300
105-60-2	Caprolactam	1800	U	1800	550
86-74-8	Carbazole	770	J	1800	220
218-01-9	Chrysene	6400		1800	410
53-70-3	Dibenz(a,h)anthracene	1900		1800	330
132-64-9	Dibenzofuran	370	J	1800	220
84-66-2	Diethyl phthalate	1800	U	1800	240
131-11-3	Dimethyl phthalate	1800	U	1800	220
84-74-2	Di-n-butyl phthalate	1800	U	1800	320
117-84-0	Di-n-octyl phthalate	1800	U	1800	220
206-44-0	Fluoranthene	10000		1800	200
86-73-7	Fluorene	480	J	1800	220
118-74-1	Hexachlorobenzene	1800	U	1800	250
87-68-3	Hexachlorobutadiene	1800	U	1800	270
77-47-4	Hexachlorocyclopentadiene	1800	U	1800	250
67-72-1	Hexachloroethane	1800	U	1800	240
193-39-5	Indeno[1,2,3-cd]pyrene	4100		1800	230
78-59-1	Isophorone	1800	U	1800	390
91-20-3	Naphthalene	350	J	1800	240
98-95-3	Nitrobenzene	1800	U	1800	210
621-64-7	N-Nitrosodi-n-propylamine	1800	U	1800	320
86-30-6	N-Nitrosodiphenylamine	1800	U	1800	1500

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: X00000034036.d

Analysis Method: 8270D | Date Collected: 11/01/2024 11:30

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.37(g) | Date Analyzed: 11/06/2024 17:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	3600	U	3600	1800
85-01-8	Phenanthrene	6800		1800	270
108-95-2	Phenol	1800	U	1800	280
129-00-0	Pyrene	8500		1800	220

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	63		26-143
321-60-8	2-Fluorobiphenyl (Surr)	77		50-121
367-12-4	2-Fluorophenol (Surr)	60		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	73		40-121
4165-62-2	Phenol-d5 (Surr)	61		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	82		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: X00000034037.d

Analysis Method: 8270D | Date Collected: 11/01/2024 14:30

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.34(g) | Date Analyzed: 11/06/2024 17:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 7.6 % Solids: 92.4 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	1100	U	1100	590	
95-95-4	2,4,5-Trichlorophenol	1800	U	1800	490	
88-06-2	2,4,6-Trichlorophenol	1800	U	1800	360	
120-83-2	2,4-Dichlorophenol	1800	U	1800	190	
105-67-9	2,4-Dimethylphenol	1800	U	1800	440	
51-28-5	2,4-Dinitrophenol	18000	U	18000	8400	
121-14-2	2,4-Dinitrotoluene	1800	U	1800	370	
606-20-2	2,6-Dinitrotoluene	1800	U	1800	210	
91-58-7	2-Chloronaphthalene	1800	U	1800	300	
95-57-8	2-Chlorophenol	3500	U	3500	330	
91-57-6	2-Methylnaphthalene	1800	U	1800	360	
95-48-7	2-Methylphenol	1800	U	1800	210	
88-74-4	2-Nitroaniline	3500	U	3500	270	UJ
88-75-5	2-Nitrophenol	1800	U	1800	510	
91-94-1	3,3'-Dichlorobenzidine	3500	U	3500	2100	
99-09-2	3-Nitroaniline	3500	U	3500	500	
534-52-1	4,6-Dinitro-2-methylphenol	3500	U	3500	1800	
101-55-3	4-Bromophenyl phenyl ether	1800	U	1800	260	
59-50-7	4-Chloro-3-methylphenol	1800	U	1800	450	
106-47-8	4-Chloroaniline	1800	U	1800	450	
7005-72-3	4-Chlorophenyl phenyl ether	1800	U	1800	220	
106-44-5	4-Methylphenol	3500	U	3500	210	
100-01-6	4-Nitroaniline	3500	U	3500	950	
100-02-7	4-Nitrophenol	3500	U	3500	1300	
83-32-9	Acenaphthene	1800	U	1800	270	
208-96-8	Acenaphthylene	1800	U	1800	240	
98-86-2	Acetophenone	1800	U	1800	250	
120-12-7	Anthracene	1800	U	1800	450	
1912-24-9	Atrazine	1800	U	1800	630	
100-52-7	Benzaldehyde	1800	U	1800	1400	
56-55-3	Benzo[a]anthracene	920	J	1800	180	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: X00000034037.d

Analysis Method: 8270D | Date Collected: 11/01/2024 14:30

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.34(g) | Date Analyzed: 11/06/2024 17:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 7.6 % Solids: 92.4 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	950	J	1800	270
205-99-2	Benzo[b]fluoranthene	1100	J	1800	290
191-24-2	Benzo[g,h,i]perylene	690	J	1800	190
207-08-9	Benzo[k]fluoranthene	520	J	1800	240
92-52-4	Biphenyl	1800	U	1800	270
108-60-1	bis (2-chloroisopropyl) ether	1800	U	1800	360
111-91-1	Bis(2-chloroethoxy)methane	1800	U	1800	390
111-44-4	Bis(2-chloroethyl)ether	1800	U	1800	240
117-81-7	Bis(2-ethylhexyl) phthalate	1800	U	1800	620
85-68-7	Butyl benzyl phthalate	460	J	1800	300
105-60-2	Caprolactam	1800	U	1800	550
86-74-8	Carbazole	1800	U	1800	210
218-01-9	Chrysene	900	J	1800	410
53-70-3	Dibenz(a,h)anthracene	1800	U	1800	320
132-64-9	Dibenzofuran	1800	U	1800	210
84-66-2	Diethyl phthalate	1800	U	1800	240
131-11-3	Dimethyl phthalate	1800	U	1800	210
84-74-2	Di-n-butyl phthalate	1800	U	1800	310
117-84-0	Di-n-octyl phthalate	1800	U	1800	210
206-44-0	Fluoranthene	2000		1800	190
86-73-7	Fluorene	1800	U	1800	210
118-74-1	Hexachlorobenzene	1800	U	1800	250
87-68-3	Hexachlorobutadiene	1800	U	1800	270
77-47-4	Hexachlorocyclopentadiene	1800	U	1800	250
67-72-1	Hexachloroethane	1800	U	1800	240
193-39-5	Indeno[1,2,3-cd]pyrene	540	J	1800	220
78-59-1	Isophorone	1800	U	1800	390
91-20-3	Naphthalene	1800	U	1800	240
98-95-3	Nitrobenzene	1800	U	1800	200
621-64-7	N-Nitrosodi-n-propylamine	1800	U	1800	310
86-30-6	N-Nitrosodiphenylamine	1800	U	1800	1500

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: X00000034037.d

Analysis Method: 8270D | Date Collected: 11/01/2024 14:30

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.34(g) | Date Analyzed: 11/06/2024 17:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 7.6 % Solids: 92.4 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	3500	U	3500	1800
85-01-8	Phenanthrene	1000	J	1800	270
108-95-2	Phenol	1800	U	1800	280
129-00-0	Pyrene	1700	J	1800	210

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	76		26-143
321-60-8	2-Fluorobiphenyl (Surr)	72		50-121
367-12-4	2-Fluorophenol (Surr)	58		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	69		40-121
4165-62-2	Phenol-d5 (Surr)	61		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	78		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: X00000034038.d

Analysis Method: 8270D | Date Collected: 11/01/2024 16:00

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.85(g) | Date Analyzed: 11/06/2024 18:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 4.0 % Solids: 96.0 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	510	U	510	280	
95-95-4	2,4,5-Trichlorophenol	860	U	860	230	
88-06-2	2,4,6-Trichlorophenol	860	U	860	170	
120-83-2	2,4-Dichlorophenol	860	U	860	91	
105-67-9	2,4-Dimethylphenol	860	U	860	210	
51-28-5	2,4-Dinitrophenol	8400	U	8400	4000	
121-14-2	2,4-Dinitrotoluene	860	U	860	180	
606-20-2	2,6-Dinitrotoluene	860	U	860	100	
91-58-7	2-Chloronaphthalene	860	U	860	140	
95-57-8	2-Chlorophenol	1700	U	1700	160	
91-57-6	2-Methylnaphthalene	860	U	860	170	
95-48-7	2-Methylphenol	860	U	860	100	
88-74-4	2-Nitroaniline	1700	U	1700	130	UJ
88-75-5	2-Nitrophenol	860	U	860	240	
91-94-1	3,3'-Dichlorobenzidine	1700	U	1700	1000	
99-09-2	3-Nitroaniline	1700	U	1700	240	
534-52-1	4,6-Dinitro-2-methylphenol	1700	U	1700	860	
101-55-3	4-Bromophenyl phenyl ether	860	U	860	120	
59-50-7	4-Chloro-3-methylphenol	860	U	860	210	
106-47-8	4-Chloroaniline	860	U	860	210	
7005-72-3	4-Chlorophenyl phenyl ether	860	U	860	110	
106-44-5	4-Methylphenol	1700	U	1700	100	
100-01-6	4-Nitroaniline	1700	U	1700	450	
100-02-7	4-Nitrophenol	1700	U	1700	600	
83-32-9	Acenaphthene	860	U	860	130	
208-96-8	Acenaphthylene	860	U	860	110	
98-86-2	Acetophenone	860	U	860	120	
120-12-7	Anthracene	860	U	860	210	
1912-24-9	Atrazine	860	U	860	300	
100-52-7	Benzaldehyde	860	U	860	680	
56-55-3	Benzo[a]anthracene	860	U	860	86	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: X00000034038.d

Analysis Method: 8270D | Date Collected: 11/01/2024 16:00

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.85(g) | Date Analyzed: 11/06/2024 18:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 4.0 % Solids: 96.0 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	860	U	860	130
205-99-2	Benzo[b]fluoranthene	860	U	860	140
191-24-2	Benzo[g,h,i]perylene	860	U	860	91
207-08-9	Benzo[k]fluoranthene	860	U	860	110
92-52-4	Biphenyl	860	U	860	130
108-60-1	bis (2-chloroisopropyl) ether	860	U	860	170
111-91-1	Bis(2-chloroethoxy)methane	860	U	860	180
111-44-4	Bis(2-chloroethyl)ether	860	U	860	110
117-81-7	Bis(2-ethylhexyl) phthalate	860	U	860	290
85-68-7	Butyl benzyl phthalate	860	U	860	140
105-60-2	Caprolactam	860	U	860	260
86-74-8	Carbazole	860	U	860	100
218-01-9	Chrysene	860	U	860	190
53-70-3	Dibenz(a,h)anthracene	860	U	860	150
132-64-9	Dibenzofuran	860	U	860	100
84-66-2	Diethyl phthalate	860	U	860	110
131-11-3	Dimethyl phthalate	860	U	860	100
84-74-2	Di-n-butyl phthalate	860	U	860	150
117-84-0	Di-n-octyl phthalate	860	U	860	100
206-44-0	Fluoranthene	860	U	860	91
86-73-7	Fluorene	860	U	860	100
118-74-1	Hexachlorobenzene	860	U	860	120
87-68-3	Hexachlorobutadiene	860	U	860	130
77-47-4	Hexachlorocyclopentadiene	860	U	860	120
67-72-1	Hexachloroethane	860	U	860	110
193-39-5	Indeno[1,2,3-cd]pyrene	860	U	860	110
78-59-1	Isophorone	860	U	860	180
91-20-3	Naphthalene	860	U	860	110
98-95-3	Nitrobenzene	860	U	860	96
621-64-7	N-Nitrosodi-n-propylamine	860	U	860	150
86-30-6	N-Nitrosodiphenylamine	860	U	860	700

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: X00000034038.d

Analysis Method: 8270D | Date Collected: 11/01/2024 16:00

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.85(g) | Date Analyzed: 11/06/2024 18:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 4.0 % Solids: 96.0 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	1700	U	1700	860
85-01-8	Phenanthrene	860	U	860	130
108-95-2	Phenol	860	U	860	130
129-00-0	Pyrene	860	U	860	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	69		26-143
321-60-8	2-Fluorobiphenyl (Surr)	74		50-121
367-12-4	2-Fluorophenol (Surr)	64		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	68		40-121
4165-62-2	Phenol-d5 (Surr)	69		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	83		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: X00000034039.d

Analysis Method: 8270D | Date Collected: 11/01/2024 16:45

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.36(g) | Date Analyzed: 11/06/2024 18:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 14.8 % Solids: 85.2 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	120	U	120	64	
95-95-4	2,4,5-Trichlorophenol	200	U	200	53	
88-06-2	2,4,6-Trichlorophenol	200	U	200	39	
120-83-2	2,4-Dichlorophenol	200	U	200	21	
105-67-9	2,4-Dimethylphenol	200	U	200	48	
51-28-5	2,4-Dinitrophenol	1900	U	1900	910	
121-14-2	2,4-Dinitrotoluene	200	U	200	41	
606-20-2	2,6-Dinitrotoluene	200	U	200	23	
91-58-7	2-Chloronaphthalene	200	U	200	32	
95-57-8	2-Chlorophenol	380	U	380	36	
91-57-6	2-Methylnaphthalene	200	U	200	39	
95-48-7	2-Methylphenol	200	U	200	23	
88-74-4	2-Nitroaniline	380	U	380	29	UJ
88-75-5	2-Nitrophenol	200	U	200	56	
91-94-1	3,3'-Dichlorobenzidine	380	U	380	230	
99-09-2	3-Nitroaniline	380	U	380	54	
534-52-1	4,6-Dinitro-2-methylphenol	380	U	380	200	
101-55-3	4-Bromophenyl phenyl ether	200	U	200	28	
59-50-7	4-Chloro-3-methylphenol	200	U	200	49	
106-47-8	4-Chloroaniline	200	U	200	49	
7005-72-3	4-Chlorophenyl phenyl ether	200	U	200	24	
106-44-5	4-Methylphenol	380	U	380	23	
100-01-6	4-Nitroaniline	380	U	380	100	
100-02-7	4-Nitrophenol	380	U	380	140	
83-32-9	Acenaphthene	200	U	200	29	
208-96-8	Acenaphthylene	200	U	200	26	
98-86-2	Acetophenone	200	U	200	27	
120-12-7	Anthracene	200	U	200	49	
1912-24-9	Atrazine	200	U	200	68	
100-52-7	Benzaldehyde	200	U	200	160	
56-55-3	Benzo[a]anthracene	200	U	200	20	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: X00000034039.d

Analysis Method: 8270D | Date Collected: 11/01/2024 16:45

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.36(g) | Date Analyzed: 11/06/2024 18:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 14.8 % Solids: 85.2 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	200	U	200	29
205-99-2	Benzo[b]fluoranthene	200	U	200	31
191-24-2	Benzo[g,h,i]perylene	200	U	200	21
207-08-9	Benzo[k]fluoranthene	200	U	200	26
92-52-4	Biphenyl	200	U	200	29
108-60-1	bis (2-chloroisopropyl) ether	200	U	200	39
111-91-1	Bis(2-chloroethoxy)methane	200	U	200	42
111-44-4	Bis(2-chloroethyl)ether	200	U	200	26
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	200	67
85-68-7	Butyl benzyl phthalate	200	U	200	32
105-60-2	Caprolactam	200	U	200	59
86-74-8	Carbazole	200	U	200	23
218-01-9	Chrysene	200	U	200	44
53-70-3	Dibenz(a,h)anthracene	200	U	200	35
132-64-9	Dibenzofuran	200	U	200	23
84-66-2	Diethyl phthalate	200	U	200	26
131-11-3	Dimethyl phthalate	200	U	200	23
84-74-2	Di-n-butyl phthalate	200	U	200	34
117-84-0	Di-n-octyl phthalate	200	U	200	23
206-44-0	Fluoranthene	200	U	200	21
86-73-7	Fluorene	200	U	200	23
118-74-1	Hexachlorobenzene	200	U	200	27
87-68-3	Hexachlorobutadiene	200	U	200	29
77-47-4	Hexachlorocyclopentadiene	200	U	200	27
67-72-1	Hexachloroethane	200	U	200	26
193-39-5	Indeno[1,2,3-cd]pyrene	200	U	200	24
78-59-1	Isophorone	200	U	200	42
91-20-3	Naphthalene	200	U	200	26
98-95-3	Nitrobenzene	200	U	200	22
621-64-7	N-Nitrosodi-n-propylamine	200	U	200	34
86-30-6	N-Nitrosodiphenylamine	200	U	200	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: X00000034039.d

Analysis Method: 8270D | Date Collected: 11/01/2024 16:45

Extract. Method: 3550C | Date Extracted: 11/05/2024 17:56

Sample wt/vol: 30.36(g) | Date Analyzed: 11/06/2024 18:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 14.8 % Solids: 85.2 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 731322 | Units: ug/Kg

Preparation Batch No.: 731285 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	380	U	380	200
85-01-8	Phenanthrene	200	U	200	29
108-95-2	Phenol	200	U	200	30
129-00-0	Pyrene	200	U	200	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	75		26-143
321-60-8	2-Fluorobiphenyl (Surr)	60		50-121
367-12-4	2-Fluorophenol (Surr)	62		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	60		40-121
4165-62-2	Phenol-d5 (Surr)	62		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	78		46-143

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: 25_84-401.D

Analysis Method: 8081B | Date Collected: 11/01/2024 10:30

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:30

Sample wt/vol: 30.44(g) | Date Analyzed: 11/05/2024 12:31

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 14.6 % Solids: 85.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731153 | Units: ug/Kg

Preparation Batch No.: 731139 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	9.6	U	9.6	1.9
72-55-9	4,4'-DDE	9.6	U	9.6	2.0
50-29-3	4,4'-DDT	4.4	J	9.6	2.3
309-00-2	Aldrin	9.6	U	9.6	2.4
319-84-6	alpha-BHC	9.6	U	9.6	1.7
319-85-7	beta-BHC	9.6	U	9.6	1.7
5103-71-9	Chlordane (.alpha.)	9.6	U	9.6	4.8
319-86-8	delta-BHC	9.6	U	9.6	1.8
60-57-1	Dieldrin	9.6	U	9.6	2.3
959-98-8	Endosulfan I	9.6	U	9.6	1.8
33213-65-9	Endosulfan II	9.6	U	9.6	1.7
1031-07-8	Endosulfan sulfate	9.6	U	9.6	1.8
72-20-8	Endrin	9.6	U	9.6	1.9
76-44-8	Heptachlor	9.6	U	9.6	2.1
58-89-9	Lindane	9.6	U	9.6	1.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	60		45-120
877-09-8	Tetrachloro-m-xylene	63		30-124

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (7-8') NATIVE | Lab Sample ID: 480-225073-2

Matrix: Solid | Lab File ID: 25_84-402.D

Analysis Method: 8081B | Date Collected: 11/01/2024 10:45

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:30

Sample wt/vol: 30.88(g) | Date Analyzed: 11/05/2024 12:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 13.3 % Solids: 86.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731153 | Units: ug/Kg

Preparation Batch No.: 731139 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	1.9	U	1.9	0.36
72-55-9	4,4'-DDE	1.9	U	1.9	0.39
50-29-3	4,4'-DDT	1.9	U	1.9	0.44
309-00-2	Aldrin	1.9	U	1.9	0.46
319-84-6	alpha-BHC	1.9	U	1.9	0.34
319-85-7	beta-BHC	1.9	U	1.9	0.34
5103-71-9	Chlordane (.alpha.)	1.9	U	1.9	0.93
319-86-8	delta-BHC	1.9	U	1.9	0.35
60-57-1	Dieldrin	1.9	U	1.9	0.45
959-98-8	Endosulfan I	1.9	U	1.9	0.36
33213-65-9	Endosulfan II	1.9	U	1.9	0.34
1031-07-8	Endosulfan sulfate	1.9	U	1.9	0.35
72-20-8	Endrin	1.9	U	1.9	0.37
76-44-8	Heptachlor	1.9	U	1.9	0.40
58-89-9	Lindane	1.9	U	1.9	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	68		45-120
877-09-8	Tetrachloro-m-xylene	67		30-124

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: 25_84-403.D

Analysis Method: 8081B | Date Collected: 11/01/2024 11:30

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:30

Sample wt/vol: 30.23(g) | Date Analyzed: 11/05/2024 13:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731153 | Units: ug/Kg

Preparation Batch No.: 731139 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	36	U	36	7.1	
72-55-9	4,4'-DDE	36	U	36	7.6	
50-29-3	4,4'-DDT	16	J	36	8.5	J
309-00-2	Aldrin	36	U	36	9.0	
319-84-6	alpha-BHC	36	U	36	6.6	
319-85-7	beta-BHC	36	U	36	6.6	
5103-71-9	Chlordane (.alpha.)	36	U	36	18	
319-86-8	delta-BHC	36	U	36	6.8	
60-57-1	Dieldrin	36	U	36	8.7	
959-98-8	Endosulfan I	36	U	36	7.0	
33213-65-9	Endosulfan II	36	U	36	6.6	
1031-07-8	Endosulfan sulfate	36	U	36	6.8	
72-20-8	Endrin	36	U	36	7.2	
76-44-8	Heptachlor	36	U	36	7.9	
58-89-9	Lindane	36	U	36	6.7	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	0	S1-	45-120
877-09-8	Tetrachloro-m-xylene	0	S1-	30-124

MKP 12/13/2024

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: 25_84-404.D

Analysis Method: 8081B | Date Collected: 11/01/2024 14:30

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:30

Sample wt/vol: 30.50(g) | Date Analyzed: 11/05/2024 13:30

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 7.6 % Solids: 92.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731153 | Units: ug/Kg

Preparation Batch No.: 731139 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	36	U	36	6.9
72-55-9	4,4'-DDE	36	U	36	7.5
50-29-3	4,4'-DDT	20	J	36	8.3
309-00-2	Aldrin	36	U	36	8.7
319-84-6	alpha-BHC	36	U	36	6.4
319-85-7	beta-BHC	36	U	36	6.4
5103-71-9	Chlordane (.alpha.)	36	U	36	18
319-86-8	delta-BHC	36	U	36	6.6
60-57-1	Dieldrin	36	U	36	8.5
959-98-8	Endosulfan I	36	U	36	6.8
33213-65-9	Endosulfan II	36	U	36	6.4
1031-07-8	Endosulfan sulfate	36	U	36	6.6
72-20-8	Endrin	36	U	36	7.0
76-44-8	Heptachlor	36	U	36	7.7
58-89-9	Lindane	36	U	36	6.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	164	S1+	45-120
877-09-8	Tetrachloro-m-xylene	0	S1-	30-124

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: 25_84-405.D

Analysis Method: 8081B | Date Collected: 11/01/2024 16:00

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:30

Sample wt/vol: 30.63(g) | Date Analyzed: 11/05/2024 13:50

Con. Extract Vol.: 10(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 4.0 % Solids: 96.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731153 | Units: ug/Kg

Preparation Batch No.: 731139 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	17	U	17	3.3
72-55-9	4,4'-DDE	17	U	17	3.6
50-29-3	4,4'-DDT	17	U	17	4.0
309-00-2	Aldrin	17	U	17	4.2
319-84-6	alpha-BHC	17	U	17	3.1
319-85-7	beta-BHC	17	U	17	3.1
5103-71-9	Chlordane (.alpha.)	17	U	17	8.5
319-86-8	delta-BHC	17	U	17	3.2
60-57-1	Dieldrin	17	U	17	4.1
959-98-8	Endosulfan I	17	U	17	3.3
33213-65-9	Endosulfan II	17	U	17	3.1
1031-07-8	Endosulfan sulfate	17	U	17	3.2
72-20-8	Endrin	17	U	17	3.4
76-44-8	Heptachlor	17	U	17	3.7
58-89-9	Lindane	17	U	17	3.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	0	S1-	45-120
877-09-8	Tetrachloro-m-xylene	85		30-124

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: 25_84-406.D

Analysis Method: 8081B | Date Collected: 11/01/2024 16:45

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:30

Sample wt/vol: 30.59(g) | Date Analyzed: 11/05/2024 14:10

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 14.8 % Solids: 85.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731153 | Units: ug/Kg

Preparation Batch No.: 731139 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	1.9	U	1.9	0.37	
72-55-9	4,4'-DDE	1.9	U	1.9	0.40	
50-29-3	4,4'-DDT	0.78	J	1.9	0.45	J
309-00-2	Aldrin	1.9	U	1.9	0.47	
319-84-6	alpha-BHC	1.9	U	1.9	0.35	
319-85-7	beta-BHC	1.9	U	1.9	0.35	
5103-71-9	Chlordane (.alpha.)	1.9	U	1.9	0.96	
319-86-8	delta-BHC	1.9	U	1.9	0.36	
60-57-1	Dieldrin	1.9	U	1.9	0.46	
959-98-8	Endosulfan I	1.9	U	1.9	0.37	
33213-65-9	Endosulfan II	1.9	U	1.9	0.35	
1031-07-8	Endosulfan sulfate	1.9	U	1.9	0.36	
72-20-8	Endrin	1.9	U	1.9	0.38	
76-44-8	Heptachlor	1.9	U	1.9	0.42	
58-89-9	Lindane	1.9	U	1.9	0.35	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	64		45-120
877-09-8	Tetrachloro-m-xylene	59		30-124

MKP 12/13/2024

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

No data validation qualifiers were added

MKP 12/13/2024

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: 60001342.D

Analysis Method: 8082A | Date Collected: 11/01/2024 10:30

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:38

Sample wt/vol: 2.71(g) | Date Analyzed: 11/07/2024 00:16

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 14.6 % Solids: 85.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731306 | Units: mg/Kg

Preparation Batch No.: 731142 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.22	U	0.22	0.042
11104-28-2	PCB-1221	0.22	U	0.22	0.042
11141-16-5	PCB-1232	0.22	U	0.22	0.042
53469-21-9	PCB-1242	0.22	U	0.22	0.042
12672-29-6	PCB-1248	0.22	U	0.22	0.042
11097-69-1	PCB-1254	0.22	U	0.22	0.10
11096-82-5	PCB-1260	0.22	U	0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	137		60-154
2051-24-3	DCB Decachlorobiphenyl	126		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (7-8') NATIVE | Lab Sample ID: 480-225073-2

Matrix: Solid | Lab File ID: 60001343.D

Analysis Method: 8082A | Date Collected: 11/01/2024 10:45

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:38

Sample wt/vol: 2.43(g) | Date Analyzed: 11/07/2024 00:34

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 13.3 % Solids: 86.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731306 | Units: mg/Kg

Preparation Batch No.: 731142 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.24	U	0.24	0.046
11104-28-2	PCB-1221	0.24	U	0.24	0.046
11141-16-5	PCB-1232	0.24	U	0.24	0.046
53469-21-9	PCB-1242	0.24	U	0.24	0.046
12672-29-6	PCB-1248	0.24	U	0.24	0.046
11097-69-1	PCB-1254	0.24	U	0.24	0.11
11096-82-5	PCB-1260	0.24	U	0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	133		60-154
2051-24-3	DCB Decachlorobiphenyl	124		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: 60001344.D

Analysis Method: 8082A | Date Collected: 11/01/2024 11:30

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:38

Sample wt/vol: 2.73(g) | Date Analyzed: 11/07/2024 00:53

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731306 | Units: mg/Kg

Preparation Batch No.: 731142 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.20	U	0.20	0.039
11104-28-2	PCB-1221	0.20	U	0.20	0.039
11141-16-5	PCB-1232	0.20	U	0.20	0.039
53469-21-9	PCB-1242	0.20	U	0.20	0.039
12672-29-6	PCB-1248	0.20	U	0.20	0.039
11097-69-1	PCB-1254	0.20	U	0.20	0.094
11096-82-5	PCB-1260	0.20	U	0.20	0.094

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	145		60-154
2051-24-3	DCB Decachlorobiphenyl	141		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: 60001345.D

Analysis Method: 8082A | Date Collected: 11/01/2024 14:30

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:38

Sample wt/vol: 2.53(g) | Date Analyzed: 11/07/2024 01:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 7.6 % Solids: 92.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731306 | Units: mg/Kg

Preparation Batch No.: 731142 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.21	U	0.21	0.042
11104-28-2	PCB-1221	0.21	U	0.21	0.042
11141-16-5	PCB-1232	0.21	U	0.21	0.042
53469-21-9	PCB-1242	0.21	U	0.21	0.042
12672-29-6	PCB-1248	0.21	U	0.21	0.042
11097-69-1	PCB-1254	0.21	U	0.21	0.10
11096-82-5	PCB-1260	0.21	U	0.21	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	131		60-154
2051-24-3	DCB Decachlorobiphenyl	124		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: 60001346.D

Analysis Method: 8082A | Date Collected: 11/01/2024 16:00

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:38

Sample wt/vol: 2.51(g) | Date Analyzed: 11/07/2024 01:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 4.0 % Solids: 96.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731306 | Units: mg/Kg

Preparation Batch No.: 731142 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.21	U	0.21	0.041
11104-28-2	PCB-1221	0.21	U	0.21	0.041
11141-16-5	PCB-1232	0.21	U	0.21	0.041
53469-21-9	PCB-1242	0.21	U	0.21	0.041
12672-29-6	PCB-1248	0.21	U	0.21	0.041
11097-69-1	PCB-1254	0.21	U	0.21	0.097
11096-82-5	PCB-1260	0.21	U	0.21	0.097

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	142		60-154
2051-24-3	DCB Decachlorobiphenyl	135		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: 60001347.D

Analysis Method: 8082A | Date Collected: 11/01/2024 16:45

Extraction Method: 3550C | Date Extracted: 11/04/2024 17:38

Sample wt/vol: 2.79(g) | Date Analyzed: 11/07/2024 01:47

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 14.8 % Solids: 85.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 731306 | Units: mg/Kg

Preparation Batch No.: 731142 | Instrument ID: HP6890-6

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.21	U	0.21	0.041
11104-28-2	PCB-1221	0.21	U	0.21	0.041
11141-16-5	PCB-1232	0.21	U	0.21	0.041
53469-21-9	PCB-1242	0.21	U	0.21	0.041
12672-29-6	PCB-1248	0.21	U	0.21	0.041
11097-69-1	PCB-1254	0.21	U	0.21	0.098
11096-82-5	PCB-1260	0.21	U	0.21	0.098

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	129		60-154
2051-24-3	DCB Decachlorobiphenyl	119		65-174

Method 8151A

Herbicides (GC) by Method 8151A

No data validation qualifiers were added

MKP 12/13/2024

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: 2024-11-12 14-15-09-05-00-05.D

Analysis Method: 8151A | Date Collected: 11/01/2024 10:30

Extraction Method: 8151A | Date Extracted: 11/07/2024 09:45

Sample wt/vol: 30.23(g) | Date Analyzed: 11/12/2024 14:15

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 14.6 % Solids: 85.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 732088 | Units: ug/Kg

Preparation Batch No.: 731515 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	19	U	19	7.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	68		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (7-8') NATIVE | Lab Sample ID: 480-225073-2

Matrix: Solid | Lab File ID: 2024-11-12 14-33-40-05-00-06.D

Analysis Method: 8151A | Date Collected: 11/01/2024 10:45

Extraction Method: 8151A | Date Extracted: 11/07/2024 09:45

Sample wt/vol: 15.72(g) | Date Analyzed: 11/12/2024 14:33

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 13.3 % Solids: 86.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 732088 | Units: ug/Kg

Preparation Batch No.: 731515 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	37	U	37	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	75		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: 2024-11-12 14-52-07-05-00-07.D

Analysis Method: 8151A | Date Collected: 11/01/2024 11:30

Extraction Method: 8151A | Date Extracted: 11/07/2024 09:45

Sample wt/vol: 30.74(g) | Date Analyzed: 11/12/2024 14:52

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 732088 | Units: ug/Kg

Preparation Batch No.: 731515 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	18	U	18	6.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	54		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: 2024-11-12 15-10-35-05-00-08.D

Analysis Method: 8151A | Date Collected: 11/01/2024 14:30

Extraction Method: 8151A | Date Extracted: 11/07/2024 09:45

Sample wt/vol: 30.64(g) | Date Analyzed: 11/12/2024 15:10

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 7.6 % Solids: 92.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 732088 | Units: ug/Kg

Preparation Batch No.: 731515 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	18	U	18	6.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	56		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: 2024-11-12 15-29-02-05-00-09.D

Analysis Method: 8151A | Date Collected: 11/01/2024 16:00

Extraction Method: 8151A | Date Extracted: 11/07/2024 09:45

Sample wt/vol: 30.52(g) | Date Analyzed: 11/12/2024 15:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 4.0 % Solids: 96.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 732088 | Units: ug/Kg

Preparation Batch No.: 731515 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	17	U	17	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	75		28-129

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: 2024-11-12 15-47-33-05-00-10.D

Analysis Method: 8151A | Date Collected: 11/01/2024 16:45

Extraction Method: 8151A | Date Extracted: 11/07/2024 09:45

Sample wt/vol: 30.55(g) | Date Analyzed: 11/12/2024 15:47

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 14.8 % Solids: 85.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 732088 | Units: ug/Kg

Preparation Batch No.: 731515 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	19	U	19	6.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	70		28-129

1633

Per- and Polyfluoroalkyl Substances by LC/MS/MS

No data validation qualifiers were added

MKP 12/13/2024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: 2024_11_6solidinj09.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 10:30

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.50(g) | Date Analyzed: 11/06/2024 19:18

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 14.6 % Solids: 85.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.78	U	0.78	0.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.39	U	0.39	0.098
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.049
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.049
335-67-1	Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.049
375-95-1	Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.049
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.049
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.049
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.049
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.049
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.049
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.049
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.049
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.049
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.049
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.049
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.049
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.049
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.78	U	0.78	0.20
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.78	U	0.78	0.20
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.78	U	0.78	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.049
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.049
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.049
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.049

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: 2024_11_6solidinj09.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 10:30

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.50(g) | Date Analyzed: 11/06/2024 19:18

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 14.6 % Solids: 85.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.049
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.0	U	2.0	0.49
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0	U	2.0	0.49
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.78	U	0.78	0.20
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.78	U	0.78	0.20
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.39	U	0.39	0.098
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.39	U	0.39	0.098
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.78	U	0.78	0.20
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.78	U	0.78	0.20
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.39	U	0.39	0.098
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.98	U	0.98	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.9	U	4.9	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.9	U	4.9	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.049
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.39	U	0.39	0.098

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (2-4') | Lab Sample ID: 480-225073-1

Matrix: Solid | Lab File ID: 2024_11_6solidinj09.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 10:30

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.50(g) | Date Analyzed: 11/06/2024 19:18

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 14.6 % Solids: 85.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	97.1		20-150
STL01893	13C5 PFPeA	89.0		20-150
STL02577	13C5 PFHxA	89.4		20-150
STL01892	13C4 PFHpA	95.2		20-150
STL01052	13C8 PFOA	100		20-150
STL02578	13C9 PFNA	103		20-150
STL02579	13C6 PFDA	97.6		20-150
STL02580	13C7 PFUnA	100		20-150
STL02116	13C2 PFTeDA	88.1		20-150
STL02337	13C3 PFBS	108		20-150
STL02581	13C3 PFHxS	99.0		20-150
STL01054	13C8 PFOS	94.8		20-150
STL01056	13C8 PFOSA	92.8		20-150
STL02118	d3-NMeFOSAA	91.6		20-150
STL02117	d5-NEtFOSAA	126		20-150
STL02395	M2-4:2 FTS	120		20-150
STL02279	M2-6:2 FTS	118		20-150
STL02280	M2-8:2 FTS	105		20-150
STL02255	13C3 HFPO-DA	83.9		20-150
STL02277	d7-N-MeFOSE-M	90.1		20-150
STL02278	d9-N-EtFOSE-M	84.1		20-150
STL02704	d5-NEtPFOSA	65.4		20-150
STL02705	D3-NMeFOSA	69.9		20-150
STL02703	13C2-PFDoDA	96.6		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (7-8') NATIVE | Lab Sample ID: 480-225073-2

Matrix: Solid | Lab File ID: 2024_11_6solidinj10.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 10:45

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.54(g) | Date Analyzed: 11/06/2024 19:34

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 13.3 % Solids: 86.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.75	U	0.75	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.37	U	0.37	0.094
307-24-4	Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.047
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.047
335-67-1	Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.047
375-95-1	Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.047
335-76-2	Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.047
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.047
307-55-1	Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.047
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.047
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.047
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.047
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.047
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.047
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.047
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.23		0.19	0.047
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.047
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.047
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.75	U	0.75	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.75	U	0.75	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.75	U	0.75	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.047
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.047
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.047
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.047

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (7-8') NATIVE | Lab Sample ID: 480-225073-2

Matrix: Solid | Lab File ID: 2024_11_6solidinj10.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 10:45

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.54(g) | Date Analyzed: 11/06/2024 19:34

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 13.3 % Solids: 86.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.047
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.47
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.47
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.75	U	0.75	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.75	U	0.75	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U	0.37	0.094
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U	0.37	0.094
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.75	U	0.75	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.75	U	0.75	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U	0.37	0.094
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.94	U	0.94	0.23
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.7	U	4.7	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.7	U	4.7	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.047
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U	0.37	0.094

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-6 (7-8') NATIVE | Lab Sample ID: 480-225073-2

Matrix: Solid | Lab File ID: 2024_11_6solidinj10.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 10:45

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.54(g) | Date Analyzed: 11/06/2024 19:34

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 13.3 % Solids: 86.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	107		20-150
STL01893	13C5 PFPeA	101		20-150
STL02577	13C5 PFHxA	102		20-150
STL01892	13C4 PFHpA	107		20-150
STL01052	13C8 PFOA	112		20-150
STL02578	13C9 PFNA	120		20-150
STL02579	13C6 PFDA	110		20-150
STL02580	13C7 PFUnA	106		20-150
STL02116	13C2 PFTeDA	81.1		20-150
STL02337	13C3 PFBS	116		20-150
STL02581	13C3 PFHxS	107		20-150
STL01054	13C8 PFOS	107		20-150
STL01056	13C8 PFOSA	101		20-150
STL02118	d3-NMeFOSAA	105		20-150
STL02117	d5-NEtFOSAA	124		20-150
STL02395	M2-4:2 FTS	123		20-150
STL02279	M2-6:2 FTS	120		20-150
STL02280	M2-8:2 FTS	122		20-150
STL02255	13C3 HFPO-DA	94.8		20-150
STL02277	d7-N-MeFOSE-M	99.7		20-150
STL02278	d9-N-EtFOSE-M	91.1		20-150
STL02704	d5-NEtPFOSA	74.0		20-150
STL02705	D3-NMeFOSA	74.9		20-150
STL02703	13C2-PFDoDA	98.4		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: 2024_11_6solidinj11.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 11:30

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.49(g) | Date Analyzed: 11/06/2024 19:51

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.74	U	0.74	0.18
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.37	U	0.37	0.092
307-24-4	Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.046
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.046
335-67-1	Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.046
375-95-1	Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.046
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.046
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.046
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.046
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.046
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.046
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.046
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.046
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.046
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.046
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.096	J	0.18	0.046
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.046
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.046
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.74	U	0.74	0.18
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.74	U	0.74	0.18
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.74	U	0.74	0.18
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.046
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.046
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.046
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.046

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: 2024_11_6solidinj11.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 11:30

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.49(g) | Date Analyzed: 11/06/2024 19:51

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.046
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.46
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.46
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.74	U	0.74	0.18
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.74	U	0.74	0.18
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U	0.37	0.092
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U	0.37	0.092
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.74	U	0.74	0.18
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.74	U	0.74	0.18
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U	0.37	0.092
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.92	U	0.92	0.23
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.6	U	4.6	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.6	U	4.6	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.046
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U	0.37	0.092

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') | Lab Sample ID: 480-225073-3

Matrix: Solid | Lab File ID: 2024_11_6solidinj11.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 11:30

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.49(g) | Date Analyzed: 11/06/2024 19:51

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 9.2 % Solids: 90.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	83.3		20-150
STL01893	13C5 PFPeA	74.2		20-150
STL02577	13C5 PFHxA	75.1		20-150
STL01892	13C4 PFHpA	79.2		20-150
STL01052	13C8 PFOA	85.7		20-150
STL02578	13C9 PFNA	83.5		20-150
STL02579	13C6 PFDA	71.5		20-150
STL02580	13C7 PFUnA	78.4		20-150
STL02116	13C2 PFTeDA	74.7		20-150
STL02337	13C3 PFBS	92.6		20-150
STL02581	13C3 PFHxS	83.5		20-150
STL01054	13C8 PFOS	84.2		20-150
STL01056	13C8 PFOSA	98.7		20-150
STL02118	d3-NMeFOSAA	86.1		20-150
STL02117	d5-NEtFOSAA	107		20-150
STL02395	M2-4:2 FTS	104		20-150
STL02279	M2-6:2 FTS	112		20-150
STL02280	M2-8:2 FTS	107		20-150
STL02255	13C3 HFPO-DA	71.0		20-150
STL02277	d7-N-MeFOSE-M	78.5		20-150
STL02278	d9-N-EtFOSE-M	77.1		20-150
STL02704	d5-NEtPFOSA	88.4		20-150
STL02705	D3-NMeFOSA	75.1		20-150
STL02703	13C2-PFDoDA	88.8		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: 2024_11_6solidinj12.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 14:30

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.49(g) | Date Analyzed: 11/06/2024 20:08

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 7.6 % Solids: 92.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.73	U	0.73	0.18
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.36	U	0.36	0.091
307-24-4	Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.045
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.045
335-67-1	Perfluorooctanoic acid (PFOA)	0.18	U	0.18	0.045
375-95-1	Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.045
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.045
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.045
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.045
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.045
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.045
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.045
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.045
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.045
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.045
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.19		0.18	0.045
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.045
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.045
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.73	U	0.73	0.18
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.73	U	0.73	0.18
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.73	U	0.73	0.18
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.045
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.045
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.045
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.045

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: 2024_11_6solidinj12.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 14:30

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.49(g) | Date Analyzed: 11/06/2024 20:08

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 7.6 % Solids: 92.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.045
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.8	U	1.8	0.45
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.8	U	1.8	0.45
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.73	U	0.73	0.18
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.73	U	0.73	0.18
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	0.36	0.091
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	0.36	0.091
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.73	U	0.73	0.18
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.73	U	0.73	0.18
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.36	U	0.36	0.091
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.91	U	0.91	0.23
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.5	U	4.5	1.1
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.5	U	4.5	1.1
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.045
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	0.36	0.091

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-8 (2-6') | Lab Sample ID: 480-225073-4

Matrix: Solid | Lab File ID: 2024_11_6solidinj12.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 14:30

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.49(g) | Date Analyzed: 11/06/2024 20:08

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 7.6 % Solids: 92.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	104		20-150
STL01893	13C5 PFPeA	96.0		20-150
STL02577	13C5 PFHxA	98.2		20-150
STL01892	13C4 PFHpA	102		20-150
STL01052	13C8 PFOA	109		20-150
STL02578	13C9 PFNA	112		20-150
STL02579	13C6 PFDA	98.6		20-150
STL02580	13C7 PFUnA	104		20-150
STL02116	13C2 PFTeDA	113		20-150
STL02337	13C3 PFBS	110		20-150
STL02581	13C3 PFHxS	104		20-150
STL01054	13C8 PFOS	102		20-150
STL01056	13C8 PFOSA	102		20-150
STL02118	d3-NMeFOSAA	103		20-150
STL02117	d5-NEtFOSAA	117		20-150
STL02395	M2-4:2 FTS	130		20-150
STL02279	M2-6:2 FTS	125		20-150
STL02280	M2-8:2 FTS	117		20-150
STL02255	13C3 HFPO-DA	87.4		20-150
STL02277	d7-N-MeFOSE-M	94.6		20-150
STL02278	d9-N-EtFOSE-M	86.9		20-150
STL02704	d5-NEtPFOSA	82.8		20-150
STL02705	D3-NMeFOSA	81.6		20-150
STL02703	13C2-PFDoDA	103		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: 2024_11_6solidinj13.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 16:00

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.50(g) | Date Analyzed: 11/06/2024 20:24

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: 4.0 % Solids: 96.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.69	U	0.69	0.17
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.087
307-24-4	Perfluorohexanoic acid (PFHxA)	0.17	U	0.17	0.043
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.17	U	0.17	0.043
335-67-1	Perfluorooctanoic acid (PFOA)	0.17	U	0.17	0.043
375-95-1	Perfluorononanoic acid (PFNA)	0.17	U	0.17	0.043
335-76-2	Perfluorodecanoic acid (PFDA)	0.17	U	0.17	0.043
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.17	U	0.17	0.043
307-55-1	Perfluorododecanoic acid (PFDoA)	0.17	U	0.17	0.043
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.17	U	0.17	0.043
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.17	U	0.17	0.043
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.17	U	0.17	0.043
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.17	U	0.17	0.043
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.17	U	0.17	0.043
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.17	U	0.17	0.043
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.17	U	0.17	0.043
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.17	U	0.17	0.043
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.17	U	0.17	0.043
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.69	U	0.69	0.17
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.69	U	0.69	0.17
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.69	U	0.69	0.17
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.17	U	0.17	0.043
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.17	U	0.17	0.043
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.17	U	0.17	0.043
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.17	U	0.17	0.043

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: 2024_11_6solidinj13.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 16:00

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.50(g) | Date Analyzed: 11/06/2024 20:24

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 4.0 % Solids: 96.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.17	U	0.17	0.043
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.7	U	1.7	0.43
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.7	U	1.7	0.43
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.69	U	0.69	0.17
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.69	U	0.69	0.17
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.087
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.087
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.69	U	0.69	0.17
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.69	U	0.69	0.17
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.35	U	0.35	0.087
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.87	U	0.87	0.22
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.3	U	4.3	1.1
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.3	U	4.3	1.1
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.17	U	0.17	0.043
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.087

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-5 (2-6') | Lab Sample ID: 480-225073-5

Matrix: Solid | Lab File ID: 2024_11_6solidinj13.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 16:00

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.50(g) | Date Analyzed: 11/06/2024 20:24

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 4.0 % Solids: 96.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	110		20-150
STL01893	13C5 PFPeA	101		20-150
STL02577	13C5 PFHxA	100		20-150
STL01892	13C4 PFHpA	107		20-150
STL01052	13C8 PFOA	108		20-150
STL02578	13C9 PFNA	115		20-150
STL02579	13C6 PFDA	108		20-150
STL02580	13C7 PFUnA	112		20-150
STL02116	13C2 PFTeDA	93.7		20-150
STL02337	13C3 PFBS	117		20-150
STL02581	13C3 PFHxS	109		20-150
STL01054	13C8 PFOS	104		20-150
STL01056	13C8 PFOSA	101		20-150
STL02118	d3-NMeFOSAA	98.8		20-150
STL02117	d5-NEtFOSAA	134		20-150
STL02395	M2-4:2 FTS	136		20-150
STL02279	M2-6:2 FTS	130		20-150
STL02280	M2-8:2 FTS	128		20-150
STL02255	13C3 HFPO-DA	94.4		20-150
STL02277	d7-N-MeFOSE-M	104		20-150
STL02278	d9-N-EtFOSE-M	96.1		20-150
STL02704	d5-NEtPFOSA	82.2		20-150
STL02705	D3-NMeFOSA	81.5		20-150
STL02703	13C2-PFDoDA	104		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: 2024_11_6solidinj14.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 16:45

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.53(g) | Date Analyzed: 11/06/2024 20:41

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 14.8 % Solids: 85.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.77	U	0.77	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.096
307-24-4	Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.048
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.048
335-67-1	Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.048
375-95-1	Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.048
335-76-2	Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.048
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.048
307-55-1	Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.048
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.048
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.048
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.048
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.048
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.048
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.25		0.19	0.048
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.048
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.048
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.77	U	0.77	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.77	U	0.77	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.77	U	0.77	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.048
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.048
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.048
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.048

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: 2024_11_6solidinj14.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 16:45

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.53(g) | Date Analyzed: 11/06/2024 20:41

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 14.8 % Solids: 85.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.048
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.48
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.48
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.77	U	0.77	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.77	U	0.77	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.096
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.096
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.77	U	0.77	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.77	U	0.77	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U	0.38	0.096
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.96	U	0.96	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.8	U	4.8	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.8	U	4.8	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.048
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.096

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') | Lab Sample ID: 480-225073-6

Matrix: Solid | Lab File ID: 2024_11_6solidinj14.d

Analysis Method: Draft-3 1633 | Date Collected: 11/01/2024 16:45

Extraction Method: 1633 Shake | Date Extracted: 11/06/2024 08:26

Sample wt/vol: 1.53(g) | Date Analyzed: 11/06/2024 20:41

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 14.8 % Solids: 85.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 634254 | Units: ug/Kg

Preparation Batch No.: 634107 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	84.5		20-150
STL01893	13C5 PFPeA	75.6		20-150
STL02577	13C5 PFHxA	78.1		20-150
STL01892	13C4 PFHpA	80.0		20-150
STL01052	13C8 PFOA	88.5		20-150
STL02578	13C9 PFNA	89.8		20-150
STL02579	13C6 PFDA	82.9		20-150
STL02580	13C7 PFUnA	84.3		20-150
STL02116	13C2 PFTeDA	68.8		20-150
STL02337	13C3 PFBS	95.6		20-150
STL02581	13C3 PFHxS	88.1		20-150
STL01054	13C8 PFOS	82.7		20-150
STL01056	13C8 PFOSA	81.3		20-150
STL02118	d3-NMeFOSAA	84.2		20-150
STL02117	d5-NEtFOSAA	115		20-150
STL02395	M2-4:2 FTS	97.6		20-150
STL02279	M2-6:2 FTS	101		20-150
STL02280	M2-8:2 FTS	103		20-150
STL02255	13C3 HFPO-DA	74.6		20-150
STL02277	d7-N-MeFOSE-M	74.0		20-150
STL02278	d9-N-EtFOSE-M	68.2		20-150
STL02704	d5-NEtPFOSA	60.5		20-150
STL02705	D3-NMeFOSA	61.4		20-150
STL02703	13C2-PFDoDA	78.3		20-150

METALS

No data validation qualifiers were added

MKP 12/13/2024

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-225073-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
BH-6 (2-4')	480-225073-1
BH-6 (7-8') NATIVE	480-225073-2
BH-3 (2-4')	480-225073-3
BH-8 (2-6')	480-225073-4
BH-5 (2-6')	480-225073-5
BH-9 (4-6')	480-225073-6

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-6 (2-4')
Lab Sample ID: 480-225073-1
Lab Name: Eurofins Buffalo
Job No.: 480-225073-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/01/2024 10:30
Reporting Basis: DRY
Date Received: 11/01/2024 17:45
Preparation Batch Number: 731094
Instrument ID: ICAP3
% Solids: 85.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	10200	11.8	10.2	mg/Kg			1	6010C
7440-36-0	Antimony	17.7	17.7	0.63	mg/Kg	U		1	6010C
7440-38-2	Arsenic	5.5	2.4	1.0	mg/Kg			1	6010C
7440-39-3	Barium	85.8	0.59	0.17	mg/Kg			1	6010C
7440-41-7	Beryllium	0.47	0.24	0.047	mg/Kg			1	6010C
7440-43-9	Cadmium	0.70	0.24	0.083	mg/Kg			1	6010C
7440-70-2	Calcium	39000	59.1	31.9	mg/Kg			1	6010C
7440-47-3	Chromium	14.6	0.59	0.43	mg/Kg			1	6010C
7440-48-4	Cobalt	6.4	0.59	0.12	mg/Kg			1	6010C
7440-50-8	Copper	35.3	1.2	0.67	mg/Kg			1	6010C
7439-89-6	Iron	13300	11.8	10.0	mg/Kg			1	6010C
7439-92-1	Lead	484	1.2	0.54	mg/Kg			1	6010C
7439-95-4	Magnesium	24000	23.7	10.0	mg/Kg			1	6010C
7439-96-5	Manganese	472	1.2	0.33	mg/Kg			1	6010C
7440-02-0	Nickel	14.9	5.9	0.30	mg/Kg			1	6010C
7440-09-7	Potassium	2040	35.5	28.7	mg/Kg			1	6010C
7782-49-2	Selenium	4.7	4.7	0.95	mg/Kg	U		1	6010C
7440-22-4	Silver	0.46	0.71	0.24	mg/Kg	J		1	6010C
7440-23-5	Sodium	155	166	72.5	mg/Kg	J		1	6010C
7440-28-0	Thallium	7.1	7.1	0.90	mg/Kg	U		1	6010C
7440-62-2	Vanadium	20.6	0.59	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	365	2.4	1.2	mg/Kg			1	6010C
7439-97-6	Mercury	0.50	0.024	0.0056	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-6 (7-8') NATIVE
Lab Sample ID: 480-225073-2
Lab Name: Eurofins Buffalo
Job No.: 480-225073-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/01/2024 10:45
Reporting Basis: DRY
Date Received: 11/01/2024 17:45
Preparation Batch Number: 731094
Instrument ID: ICAP3
% Solids: 86.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	16500	11.4	9.8	mg/Kg			1	6010C
7440-36-0	Antimony	17.1	17.1	0.60	mg/Kg	U		1	6010C
7440-38-2	Arsenic	2.4	2.3	1.0	mg/Kg			1	6010C
7440-39-3	Barium	38.9	0.57	0.16	mg/Kg			1	6010C
7440-41-7	Beryllium	0.65	0.23	0.046	mg/Kg			1	6010C
7440-43-9	Cadmium	0.57	0.23	0.080	mg/Kg			1	6010C
7440-70-2	Calcium	15000	57.0	30.8	mg/Kg			1	6010C
7440-47-3	Chromium	18.6	0.57	0.41	mg/Kg			1	6010C
7440-48-4	Cobalt	9.9	0.57	0.11	mg/Kg			1	6010C
7440-50-8	Copper	7.7	1.1	0.65	mg/Kg			1	6010C
7439-89-6	Iron	19200	11.4	9.7	mg/Kg			1	6010C
7439-92-1	Lead	14.8	1.1	0.52	mg/Kg			1	6010C
7439-95-4	Magnesium	13500	22.8	9.7	mg/Kg			1	6010C
7439-96-5	Manganese	262	1.1	0.32	mg/Kg			1	6010C
7440-02-0	Nickel	24.2	5.7	0.29	mg/Kg			1	6010C
7440-09-7	Potassium	4380	34.2	27.6	mg/Kg			1	6010C
7782-49-2	Selenium	4.6	4.6	0.91	mg/Kg	U		1	6010C
7440-22-4	Silver	0.68	0.68	0.23	mg/Kg	U		1	6010C
7440-23-5	Sodium	189	160	69.9	mg/Kg			1	6010C
7440-28-0	Thallium	1.2	6.8	0.87	mg/Kg	J		1	6010C
7440-62-2	Vanadium	25.8	0.57	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	996	2.3	1.2	mg/Kg			1	6010C
7439-97-6	Mercury	0.014	0.023	0.0053	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-3 (2-4')
Lab Sample ID: 480-225073-3
Lab Name: Eurofins Buffalo
Job No.: 480-225073-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/01/2024 11:30
Reporting Basis: DRY
Date Received: 11/01/2024 17:45
Preparation Batch Number: 731094
Instrument ID: ICAP3
% Solids: 90.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5430	10.8	9.4	mg/Kg			1	6010C
7440-36-0	Antimony	16.3	16.3	0.57	mg/Kg	U		1	6010C
7440-38-2	Arsenic	4.9	2.2	0.95	mg/Kg			1	6010C
7440-39-3	Barium	154	0.54	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.28	0.22	0.043	mg/Kg			1	6010C
7440-43-9	Cadmium	3.0	0.22	0.076	mg/Kg			1	6010C
7440-70-2	Calcium	147000	542	293	mg/Kg			10	6010C
7440-47-3	Chromium	9.7	0.54	0.39	mg/Kg			1	6010C
7440-48-4	Cobalt	9.3	0.54	0.11	mg/Kg			1	6010C
7440-50-8	Copper	38.4	1.1	0.62	mg/Kg			1	6010C
7439-89-6	Iron	8390	10.8	9.2	mg/Kg			1	6010C
7439-92-1	Lead	291	1.1	0.50	mg/Kg			1	6010C
7439-95-4	Magnesium	69500	217	92.0	mg/Kg			10	6010C
7439-96-5	Manganese	449	1.1	0.30	mg/Kg			1	6010C
7440-02-0	Nickel	11.0	5.4	0.27	mg/Kg			1	6010C
7440-09-7	Potassium	1360	32.5	26.3	mg/Kg			1	6010C
7782-49-2	Selenium	4.3	4.3	0.87	mg/Kg	U		1	6010C
7440-22-4	Silver	0.65	0.65	0.22	mg/Kg	U		1	6010C
7440-23-5	Sodium	224	152	66.5	mg/Kg			1	6010C
7440-28-0	Thallium	6.5	6.5	0.82	mg/Kg	U		1	6010C
7440-62-2	Vanadium	10.8	0.54	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	1020	2.2	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.68	0.021	0.0049	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-8 (2-6')
Lab Sample ID: 480-225073-4
Lab Name: Eurofins Buffalo
Job No.: 480-225073-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/01/2024 14:30
Reporting Basis: DRY
Date Received: 11/01/2024 17:45
Preparation Batch Number: 731094
Instrument ID: ICAP3
% Solids: 92.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	7740	10.4	8.9	mg/Kg			1	6010C
7440-36-0	Antimony	15.5	15.5	0.55	mg/Kg	U		1	6010C
7440-38-2	Arsenic	3.4	2.1	0.91	mg/Kg			1	6010C
7440-39-3	Barium	415	0.52	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.35	0.21	0.041	mg/Kg			1	6010C
7440-43-9	Cadmium	0.44	0.21	0.073	mg/Kg			1	6010C
7440-70-2	Calcium	142000	518	280	mg/Kg			10	6010C
7440-47-3	Chromium	9.6	0.52	0.37	mg/Kg			1	6010C
7440-48-4	Cobalt	3.4	0.52	0.10	mg/Kg			1	6010C
7440-50-8	Copper	14.5	1.0	0.59	mg/Kg			1	6010C
7439-89-6	Iron	8740	10.4	8.8	mg/Kg			1	6010C
7439-92-1	Lead	188	1.0	0.48	mg/Kg			1	6010C
7439-95-4	Magnesium	71100	207	87.8	mg/Kg			10	6010C
7439-96-5	Manganese	428	1.0	0.29	mg/Kg			1	6010C
7440-02-0	Nickel	8.2	5.2	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	1790	31.1	25.1	mg/Kg			1	6010C
7782-49-2	Selenium	4.1	4.1	0.83	mg/Kg	U		1	6010C
7440-22-4	Silver	0.62	0.62	0.21	mg/Kg	U		1	6010C
7440-23-5	Sodium	609	145	63.5	mg/Kg			1	6010C
7440-28-0	Thallium	1.0	6.2	0.79	mg/Kg	J		1	6010C
7440-62-2	Vanadium	13.4	0.52	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	193	2.1	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.070	0.022	0.0050	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-5 (2-6') Lab Sample ID: 480-225073-5

Lab Name: Eurofins Buffalo Job No.: 480-225073-1

SDG ID.:

Matrix: Solid Date Sampled: 11/01/2024 16:00

Reporting Basis: DRY Date Received: 11/01/2024 17:45

Preparation Batch Number: 731094 Instrument ID: ICAP3

% Solids: 96.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	625	10.5	9.0	mg/Kg			1	6010C
7440-36-0	Antimony	15.7	15.7	0.56	mg/Kg	U		1	6010C
7440-38-2	Arsenic	2.1	2.1	0.92	mg/Kg	U		1	6010C
7440-39-3	Barium	3.6	0.52	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.21	0.21	0.042	mg/Kg	U		1	6010C
7440-43-9	Cadmium	0.52	0.21	0.073	mg/Kg			1	6010C
7440-70-2	Calcium	195000	525	283	mg/Kg			10	6010C
7440-47-3	Chromium	1.8	0.52	0.38	mg/Kg			1	6010C
7440-48-4	Cobalt	0.33	0.52	0.10	mg/Kg	J		1	6010C
7440-50-8	Copper	1.3	1.0	0.60	mg/Kg			1	6010C
7439-89-6	Iron	1670	10.5	8.9	mg/Kg			1	6010C
7439-92-1	Lead	5.8	1.0	0.48	mg/Kg			1	6010C
7439-95-4	Magnesium	114000	210	89.0	mg/Kg			10	6010C
7439-96-5	Manganese	368	1.0	0.29	mg/Kg			1	6010C
7440-02-0	Nickel	0.92	5.2	0.26	mg/Kg	J		1	6010C
7440-09-7	Potassium	230	31.5	25.4	mg/Kg			1	6010C
7782-49-2	Selenium	4.2	4.2	0.84	mg/Kg	U		1	6010C
7440-22-4	Silver	0.63	0.63	0.21	mg/Kg	U		1	6010C
7440-23-5	Sodium	175	147	64.4	mg/Kg			1	6010C
7440-28-0	Thallium	1.3	6.3	0.80	mg/Kg	J		1	6010C
7440-62-2	Vanadium	1.4	0.52	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	87.5	2.1	1.1	mg/Kg			1	6010C
7439-97-6	Mercury	0.020	0.020	0.0047	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BH-9 (4-6') Lab Sample ID: 480-225073-6

Lab Name: Eurofins Buffalo Job No.: 480-225073-1

SDG ID.:

Matrix: Solid Date Sampled: 11/01/2024 16:45

Reporting Basis: DRY Date Received: 11/01/2024 17:45

Preparation Batch Number: 731094 Instrument ID: ICAP3

% Solids: 85.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	1880	11.5	9.9	mg/Kg			1	6010C
7440-36-0	Antimony	17.3	17.3	0.61	mg/Kg	U		1	6010C
7440-38-2	Arsenic	1.4	2.3	1.0	mg/Kg	J		1	6010C
7440-39-3	Barium	12.2	0.58	0.16	mg/Kg			1	6010C
7440-41-7	Beryllium	0.10	0.23	0.046	mg/Kg	J		1	6010C
7440-43-9	Cadmium	1.4	0.23	0.081	mg/Kg			1	6010C
7440-70-2	Calcium	181000	577	311	mg/Kg			10	6010C
7440-47-3	Chromium	3.5	0.58	0.42	mg/Kg			1	6010C
7440-48-4	Cobalt	0.69	0.58	0.12	mg/Kg			1	6010C
7440-50-8	Copper	3.7	1.2	0.66	mg/Kg			1	6010C
7439-89-6	Iron	3940	11.5	9.8	mg/Kg			1	6010C
7439-92-1	Lead	21.5	1.2	0.53	mg/Kg			1	6010C
7439-95-4	Magnesium	105000	231	97.8	mg/Kg			10	6010C
7439-96-5	Manganese	417	1.2	0.32	mg/Kg			1	6010C
7440-02-0	Nickel	2.1	5.8	0.29	mg/Kg	J		1	6010C
7440-09-7	Potassium	688	34.6	28.0	mg/Kg			1	6010C
7782-49-2	Selenium	4.6	4.6	0.92	mg/Kg	U		1	6010C
7440-22-4	Silver	0.69	0.69	0.23	mg/Kg	U		1	6010C
7440-23-5	Sodium	158	161	70.7	mg/Kg	J		1	6010C
7440-28-0	Thallium	1.3	6.9	0.88	mg/Kg	J		1	6010C
7440-62-2	Vanadium	4.0	0.58	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	282	2.3	1.2	mg/Kg			1	6010C
7439-97-6	Mercury	0.16	0.023	0.0054	mg/Kg			1	7471B

GENERAL CHEMISTRY

No data validation qualifiers were added

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COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-225073-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
BH-6 (2-4')	480-225073-1
BH-6 (7-8') NATIVE	480-225073-2
BH-3 (2-4')	480-225073-3
BH-8 (2-6')	480-225073-4
BH-5 (2-6')	480-225073-5
BH-9 (4-6')	480-225073-6

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job Number: 480-225073-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
BH-6 (2-4')	480-225073-1
BH-3 (2-4')	480-225073-3
BH-8 (2-6')	480-225073-4
BH-5 (2-6')	480-225073-5
BH-9 (4-6')	480-225073-6

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-6 (2-4')
Lab Sample ID: 480-225073-1
Lab Name: Eurofins Buffalo
Job No.: 480-225073-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/01/2024 10:30
Reporting Basis: DRY
Date Received: 11/01/2024 17:45
Preparation Batch Number: 731837
Instrument ID: SEAL 1
% Solids: 85.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.1	1.1	0.53	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-3 (2-4')
Lab Sample ID: 480-225073-3
Lab Name: Eurofins Buffalo
Job No.: 480-225073-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/01/2024 11:30
Reporting Basis: DRY
Date Received: 11/01/2024 17:45
Preparation Batch Number: 731837
Instrument ID: SEAL 1
% Solids: 90.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.98	0.98	0.47	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-8 (2-6')
Lab Sample ID: 480-225073-4
Lab Name: Eurofins Buffalo
Job No.: 480-225073-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/01/2024 14:30
Reporting Basis: DRY
Date Received: 11/01/2024 17:45
Preparation Batch Number: 731837
Instrument ID: SEAL 1
% Solids: 92.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.1	1.1	0.51	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-5 (2-6')
Lab Sample ID: 480-225073-5
Lab Name: Eurofins Buffalo
Job No.: 480-225073-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/01/2024 16:00
Reporting Basis: DRY
Date Received: 11/01/2024 17:45
Preparation Batch Number: 731837
Instrument ID: SEAL 1
% Solids: 96.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.97	0.97	0.47	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-9 (4-6')
Lab Sample ID: 480-225073-6
Lab Name: Eurofins Buffalo
Job No.: 480-225073-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/01/2024 16:45
Reporting Basis: DRY
Date Received: 11/01/2024 17:45
Preparation Batch Number: 731837
Instrument ID: SEAL 1
% Solids: 85.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.0	1.0	0.48	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-6 (2-4')
Lab Sample ID: 480-225073-1
Lab Name: Eurofins Edison
Job No.: 480-225073-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/01/2024 10:30
Reporting Basis: DRY
Date Received: 11/01/2024 17:45
Preparation Batch Number: 1006681
Instrument ID: WetHexSpec
% Solids: 85.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.3	2.3	0.97	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-3 (2-4') Lab Sample ID: 480-225073-3

Lab Name: Eurofins Edison Job No.: 480-225073-1

SDG ID.:

Matrix: Solid Date Sampled: 11/01/2024 11:30

Reporting Basis: DRY Date Received: 11/01/2024 17:45

Preparation Batch Number: 1006681 Instrument ID: WetHexSpec

% Solids: 90.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.2	2.2	0.92	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-8 (2-6') Lab Sample ID: 480-225073-4

Lab Name: Eurofins Edison Job No.: 480-225073-1

SDG ID.:

Matrix: Solid Date Sampled: 11/01/2024 14:30

Reporting Basis: DRY Date Received: 11/01/2024 17:45

Preparation Batch Number: 1006681 Instrument ID: WetHexSpec

% Solids: 92.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.2	2.2	0.92	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-5 (2-6') Lab Sample ID: 480-225073-5

Lab Name: Eurofins Edison Job No.: 480-225073-1

SDG ID.:

Matrix: Solid Date Sampled: 11/01/2024 16:00

Reporting Basis: DRY Date Received: 11/01/2024 17:45

Preparation Batch Number: 1006681 Instrument ID: WetHexSpec

% Solids: 96.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.0	2.0	0.86	mg/Kg	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: BH-9 (4-6')
Lab Sample ID: 480-225073-6
Lab Name: Eurofins Edison
Job No.: 480-225073-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/01/2024 16:45
Reporting Basis: DRY
Date Received: 11/01/2024 17:45
Preparation Batch Number: 1006681
Instrument ID: WetHexSpec
% Solids: 85.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.3	2.3	0.97	mg/Kg	U		1	7196A

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: Joseph Gambino	Lab PM: Beniati, John	Carrier Tracking No(s):	COC No:
Client Contact: Jacob COX	Phone: 716.249.6880	E-Mail:	State of Origin:	Page:
Company: Bridges Engineering - BE3		Accreditations Required (See note):		Job #:
Address: 960 Busti Ave Suite B150	Due Date Requested:			
City: Buffalo	TAT Requested (days): Standard 10-Day			
State, Zip: NY, 14213				
Phone: 716.249.6880	PO #:			
Email: JCOX@BE3corp.com	WO #:			
Site: The Nest	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 - TCL VOCs + TICs	6010C, 7471B, 8081B	8082A, 8151A, 8270D	1633_final_1633Standard List	7196A, 9012B	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH-6 (2-4')	11/1/24	10:30AM	G	S			X	X	X	X	X		Added Hex Chrom + Cyanide
BH-6 (7-8') Native	11/1/24	10:45AM	G	S				X	X	X			
BH-3 (2-4')	11/1/24	11:30AM	G	S			X	X	X	X	X		
BH-8 (2-6')	11/1/24	2:30PM	G	S			X	X	X	X	X		
BH-5 (2-6')	11/1/24	4:00PM	G	S			X	X	X	X	X		
BH-9 (4-6')	11/1/24	4:45PM	G	S			X	X	X	X	X		

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

480-225073 Chain of Custody

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
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Joseph Gambino	Date/Time: 11/1/24 @5:45PM	Company: BE3	Received by: SM
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Date/Time: 11/1/24 1745 Company: Eurofins

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 8.9 IR#5C ICE

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

1/9/26

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90201 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-225073-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/14/2024			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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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:						
BH-6 (2-4') (480-225073-1)	11/1/24	10:30 Eastern	G	Solid			X	1	
BH-6 (7-8') NATIVE (480-225073-2)	11/1/24	10:45 Eastern	G	Solid			X	1	
BH-3 (2-4') (480-225073-3)	11/1/24	11:30 Eastern	G	Solid			X	1	
BH-8 (2-6') (480-225073-4)	11/1/24	14:30 Eastern	G	Solid			X	1	
BH-5 (2-6') (480-225073-5)	11/1/24	16:00 Eastern	G	Solid			X	1	
BH-9 (4-6') (480-225073-6)	11/1/24	16:45 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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
VD	~~11-4-24~~ 1-4-24			11/5/24 09:48	EC
Relinquished by:	Date/Time: 1600	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

1/9/26

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90201 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-225073-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/14/2024			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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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:						
BH-6 (2-4') (480-225073-1)	11/1/24	10:30 Eastern	G	Solid			X	1	
BH-6 (7-8') NATIVE (480-225073-2)	11/1/24	10:45 Eastern	G	Solid			X	1	
BH-3 (2-4') (480-225073-3)	11/1/24	11.30 Eastern	G	Solid			X	1	
BH-8 (2-6') (480-225073-4)	11/1/24	14:30 Eastern	G	Solid			X	1	
BH-5 (2-6') (480-225073-5)	11/1/24	16:00 Eastern	G	Solid			X	1	
BH-9 (4-6') (480-225073-6)	11/1/24	16:45 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 *Unconfirmed*	***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) 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
[illegible]	~~11-4-24~~ 1600		[signature]	11/5/24 0945	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 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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90205.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP New York		Job #: 480-225073-1
Address: 777 New Durham Road,	Due Date Requested: 11/14/2024			
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: 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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH-6 (2-4') (480-225073-1)	11/1/24	10:30 Eastern	G	Solid			X	1	
BH-3 (2-4') (480-225073-3)	11/1/24	11:30 Eastern	G	Solid			X	1	
BH-8 (2-6') (480-225073-4)	11/1/24	14:30 Eastern	G	Solid			X	1	
BH-5 (2-6') (480-225073-5)	11/1/24	16:00 Eastern	G	Solid			X	1	
BH-9 (4-6') (480-225073-6)	11/1/24	16:45 Eastern	G	Solid			X	1	

Analysis Requested

Other: N/A

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]	11-4-24 1600		[signature] via Fedex	11/5/24 1045	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: 1.4/1.6°C IR9

Ver: 10/10/2024

Appendix B

Laboratory QC Documentation

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-225073-1

SDG No.:

Lab Sample ID: CCVIS 480-731454/4 Calibration Date: 11/06/2024 20:04

Instrument ID: HP5977R Calib Start Date: 09/22/2024 11:52

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 09/22/2024 14:34

Lab File ID: R0829.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.686	1.857	0.1000	34.6	50.0	-30.9	50.0
Chloromethane	Ave	3.312	2.507	0.1000	37.8	50.0	-24.3*	20.0
Vinyl chloride	Ave	2.039	1.659	0.1000	40.7	50.0	-18.6	20.0
Butadiene	Ave	2.658	2.173		40.9	50.0	-18.2	20.0
Bromomethane	Ave	0.9916	0.8121	0.1000	41.0	50.0	-18.1	50.0
Chloroethane	Ave	1.082	0.7687	0.1000	35.5	50.0	-29.0	50.0
Trichlorofluoromethane	Ave	2.595	2.186	0.1000	42.1	50.0	-15.8	20.0
Dichlorofluoromethane	Ave	2.828	2.493		44.1	50.0	-11.8	20.0
Ethyl ether	Ave	1.284	1.215		47.3	50.0	-5.4	20.0
Acrolein	Ave	0.1435	0.1354		236	250	-5.7	50.0
1,1-Dichloroethene	Ave	1.092	1.030	0.1000	47.2	50.0	-5.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.354	1.232	0.1000	45.5	50.0	-9.1	20.0
Acetone	Ave	0.4029	0.4896	0.1000	304	250	21.5	50.0
Iodomethane	Ave	1.840	1.692		46.0	50.0	-8.0	20.0
Carbon disulfide	Ave	4.259	3.820	0.1000	44.8	50.0	-10.3	20.0
Allyl chloride	Ave	3.069	2.861		46.6	50.0	-6.8	20.0
Methyl acetate	Ave	1.054	1.100	0.1000	104	100	4.3	50.0
Methylene Chloride	Lin1		1.205	0.1000	50.7	50.0	1.4	20.0
2-Methyl-2-propanol	Ave	0.1874	0.1856		495	500	-1.0	50.0
Methyl tert-butyl ether	Ave	3.884	3.548	0.1000	45.7	50.0	-8.6	20.0
trans-1,2-Dichloroethene	Ave	1.203	1.158	0.1000	48.2	50.0	-3.7	20.0
Acrylonitrile	Ave	0.5835	0.5859		502	500	0.4	20.0
Hexane	Ave	2.991	2.844		47.5	50.0	-4.9	20.0
1,1-Dichloroethane	Ave	2.839	2.678	0.2000	47.2	50.0	-5.7	20.0
Vinyl acetate	Ave	3.000	2.958		98.6	100	-1.4	20.0
2,2-Dichloropropane	Ave	2.245	1.893		42.2	50.0	-15.7	20.0
cis-1,2-Dichloroethene	Ave	1.283	1.242	0.1000	48.4	50.0	-3.1	20.0
2-Butanone (MEK)	Ave	0.6463	0.7246	0.1000	280	250	12.1	20.0
Chlorobromomethane	Ave	0.5365	0.5172		48.2	50.0	-3.6	20.0
Tetrahydrofuran	Ave	0.4792	0.4856		101	100	1.3	20.0
Chloroform	Ave	2.473	2.243	0.2000	45.4	50.0	-9.3	20.0
1,1,1-Trichloroethane	Ave	2.544	2.171	0.1000	42.7	50.0	-14.7	20.0
Cyclohexane	Ave	3.803	3.531	0.1000	46.4	50.0	-7.2	20.0
Carbon tetrachloride	Ave	2.185	1.791	0.1000	41.0	50.0	-18.0	20.0
1,1-Dichloropropene	Ave	1.787	1.723		48.2	50.0	-3.6	20.0
Benzene	Ave	4.507	4.454	0.5000	49.4	50.0	-1.2	20.0
Isobutyl alcohol	Ave	0.0754	0.0771		1280	1250	2.3	50.0
1,2-Dichloroethane	Ave	2.100	1.951	0.1000	46.4	50.0	-7.1	20.0
n-Heptane	Ave	3.199	3.039		47.5	50.0	-5.0	20.0
Trichloroethene	Ave	1.225	1.203	0.2000	49.1	50.0	-1.8	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-731419/3-A

Matrix: Solid | Lab File ID: R0834.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 11/06/2024 22:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 731454 | Units: ug/Kg

Preparation Batch No.: 731419 | Instrument ID: HP5977R

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.61
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.39
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.25
78-87-5	1,2-Dichloropropane	5.0	U	5.0	2.5
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.26
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.70
78-93-3	2-Butanone (MEK)	25	U	25	1.8
591-78-6	2-Hexanone	25	U	25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	1.6
67-64-1	Acetone	25	U	25	4.2
71-43-2	Benzene	5.0	U	5.0	0.25
75-27-4	Bromodichloromethane	5.0	U	5.0	0.67
75-25-2	Bromoform	5.0	U	5.0	2.5
74-83-9	Bromomethane	5.0	U	5.0	0.45
75-15-0	Carbon disulfide	5.0	U	5.0	2.5
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.48
108-90-7	Chlorobenzene	5.0	U	5.0	0.66
124-48-1	Dibromochloromethane	5.0	U	5.0	0.64
75-00-3	Chloroethane	5.0	U	5.0	1.1
67-66-3	Chloroform	0.525	J	5.0	0.31
74-87-3	Chloromethane	5.0	U	5.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.72
110-82-7	Cyclohexane	5.0	U	5.0	0.70
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	0.41

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-225073-1

SDG No.:

Lab Sample ID: CCVIS 480-731322/3 | Calibration Date: 11/06/2024 12:37

Instrument ID: HP5973X | Calib Start Date: 10/10/2024 14:18

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 17:13

Lab File ID: X00000034025.d | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.424	1.475	0.0100	41500	40000	3.6	20.0
2-Chloronaphthalene	Ave	1.129	1.159	0.8000	41100	40000	2.7	20.0
2-Nitroaniline	Ave	0.2912	0.3596	0.0100	49400	40000	23.5*	20.0
Dimethyl phthalate	Ave	1.240	1.315	0.0100	42400	40000	6.0	20.0
1,3-Dinitrobenzene	Lin2		0.1211	0.0100	39900	40000	-0.2	20.0
2,6-Dinitrotoluene	Lin2		0.3060	0.2000	41000	40000	2.5	20.0
Acenaphthylene	Ave	1.732	1.838	0.9000	42400	40000	6.1	20.0
3-Nitroaniline	Lin2		0.3576	0.0100	43000	40000	7.4	20.0
Acenaphthene	Ave	1.160	1.188	0.9000	40900	40000	2.4	20.0
2,4-Dinitrophenol	Lin2		0.1599	0.0100	82600	80000	3.2	20.0
4-Nitrophenol	Lin2		0.1907	0.0100	90900	80000	13.7	20.0
Dibenzofuran	Ave	1.603	1.682	0.8000	42000	40000	4.9	20.0
2,4-Dinitrotoluene	Lin2		0.4485	0.2000	44600	40000	11.6	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.3200	0.0100	43900	40000	9.8	20.0
Diethyl phthalate	Ave	1.219	1.375	0.0100	45100	40000	12.9	20.0
Hexadecane	Lin2		0.8395	0.0100	47100	40000	17.8	20.0
Fluorene	Ave	1.298	1.380	0.9000	42500	40000	6.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.6376	0.6940	0.4000	43500	40000	8.8	20.0
4-Nitroaniline	Lin2		0.3360	0.0100	40700	40000	1.8	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1385	0.0100	85100	80000	6.4	20.0
Diphenylamine	Ave	0.6101	0.6414	0.0100	36000	34200	5.1	20.0
N-Nitrosodiphenylamine	Ave	0.5217	0.5484	0.0100	42000	40000	5.1	20.0
1,2-Diphenylhydrazine	Ave	0.7013	0.7776	0.0100	44400	40000	10.9	20.0
trans-Azobenzene	Ave	0.7013	0.7776	0.0100	44400	40000	10.9	20.0
4-Bromophenyl phenyl ether	Ave	0.2076	0.2117	0.1000	40800	40000	2.0	20.0
Hexachlorobenzene	Ave	0.2389	0.2419	0.1000	40500	40000	1.3	20.0
Atrazine	Lin2		0.3893	0.0100	45000	40000	12.4	20.0
Pentachlorophenol	Lin2		0.1416	0.0500	85100	80000	6.4	50.0
n-Octadecane	Lin2		0.4575	0.0100	44800	40000	12.1	20.0
Phenanthrene	Lin2		1.055	0.7000	40300	40000	0.8	20.0
Anthracene	Ave	1.073	1.104	0.7000	41200	40000	2.9	20.0
Carbazole	Ave	0.9349	0.9442	0.0100	40400	40000	1.0	20.0
Di-n-butyl phthalate	Lin2		1.208	0.0100	42400	40000	6.0	20.0
Fluoranthene	Ave	1.095	1.153	0.6000	42100	40000	5.3	20.0
Benzidine	Lin2		0.8990	0.0100	79700	80000	-0.4	50.0
Pyrene	Ave	1.271	1.353	0.6000	42600	40000	6.4	20.0
Butyl benzyl phthalate	Lin2		0.6333	0.0100	45500	40000	13.8	20.0
3,3'-Dichlorobenzidine	Lin2		0.6087	0.0100	82400	80000	3.0	50.0
Benzo[a]anthracene	Lin2		1.279	0.8000	41300	40000	3.2	20.0
Chrysene	Lin2		1.210	0.7000	40100	40000	0.4	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.8877	0.0100	43300	40000	8.4	20.0

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-3 (2-4') Lab Sample ID: 480-225073-3

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 11/05/2024 13:11 Date Analyzed (2): 11/05/2024 13:11

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
4,4'-DDT	1		5.18	5.17	5.23	16		27.6
	2		6.24	6.21	6.27	21		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-225073-1

SDG No.:

Client Sample ID: BH-9 (4-6') Lab Sample ID: 480-225073-6

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 11/05/2024 14:10 Date Analyzed (2): 11/05/2024 14:10

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
4,4'-DDT	1		5.17	5.17	5.23	0.78		29.8
	2		6.24	6.21	6.27	1.1		

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

The NEST Site
333 1st Street
Niagara Falls, NY 14303
BCP Site # C932183

SDG: J225489-1
1 soil sample

Prepared for:

BE3 Corp.
960 Busti Avenue
Suite 150-B
Buffalo, NY 14213
Attention: Jacob Cox

December 2024

EDU *Environmental Data Usability 10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
BE3 SDG J225489-1: The NEST Site – Niagara Falls, NY

The data associated with this Sample Delivery Group (SDG) J225489-1, analyzed by Eurofins Buffalo, Buffalo, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/17/2024

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	The NEST Site 333 1st Street Niagara Falls, NY 14303 BCP Site #: C932183
SAMPLING DATE:	November 13, 2024
SAMPLE TYPE:	1 soil sample
LABORATORY:	Eurofins Buffalo Buffalo, NY
SDG No.:	J225489-1

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 1 soil sample collected on November 13 2024. This sample was analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), Pesticides, PCBs, Herbicides, PFASs, Metals, TCN, and Hexavalent Chromium (Cr+6).

All analyses were performed by Eurofins Buffalo, Buffalo, NY and analyzed as SDG J225489-1. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-8. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG J225489-1, one sample was analyzed and results were reported for 204 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have rejected/qualified and the corresponding QC reasons.

NOTE: 1) As noted by the laboratory, the soil samples were not collected following SW846 5035A protocol. This adds an element of uncertainty to the analytical results for volatile organic analytes (VOAs). Although not specifically indicated on the final data sheets with a "J" flag, the VOA analytical results should be considered estimated, but usable.

Table 6-1 8260 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
Tank Location	Chloroform	CRQL-U	Analyte detected in method blank	Data changed to non-detect
Tank Location	Cyclohexane	J detects UJ non-detects	CCV % D > 20 % QC limit	Data are estimated

Table 6-2 8270 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
Tank Location	Benzaldehyde	J detects UJ non-detects	IVV % RSD and CCV % D > 20 % QC limits	Data are estimated

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
Tank Location	4,4'-DDT	CRQL-U	Analyte deyecyed in method blank	Data changed to non detect

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-5 Herbicides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-8 TCN and Cr+6

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jacob Cox
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo NY 14213

Generated 11/25/2024 5:31 PM

JOB DESCRIPTION

The Nest Site Analysis

JOB NUMBER

480-225489-1

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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Job Narrative
480-225489-1

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 11/13/2024 3:34 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 12.4°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-732825 recovered above the upper control limit for Cyclohexane. The sample(s) associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TANK LOCATION (480-225489-1).

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

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

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 continuing calibration verification (CCV) associated with batch 480-732722 recovered above the upper control limit for Endosulfan sulfate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TANK LOCATION (480-225489-1).

Method 8081B: The method blank for preparation batch 480-732687 and analytical batch 480-732722 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. The following associated sample is impacted: TANK LOCATION (480-225489-1).

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.

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-225489-1
Project/Site: The Nest Site Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-225489-1	TANK LOCATION	Solid	11/13/24 14:30	11/13/24 15:34

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION | Lab Sample ID: 480-225489-1

Matrix: Solid | Lab File ID: M16457.D

Analysis Method: 8260C | Date Collected: 11/13/2024 14:30

Sample wt/vol: 5.18(g) | Date Analyzed: 11/19/2024 03:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.0 % Solids: 85.0 | Level: (low/med) Low

Analysis Batch No.: 732825 | Units: ug/Kg

Preparation Batch No.: 732824 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	5.7	U vs	5.7	0.41	
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U vs	5.7	0.92	
79-00-5	1,1,2-Trichloroethane	5.7	U vs	5.7	0.74	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U vs	5.7	1.3	
75-34-3	1,1-Dichloroethane	5.7	U vs	5.7	0.69	
75-35-4	1,1-Dichloroethene	5.7	U vs	5.7	0.70	
120-82-1	1,2,4-Trichlorobenzene	5.7	U vs	5.7	0.35	
96-12-8	1,2-Dibromo-3-Chloropropane	5.7	U vs	5.7	2.8	
95-50-1	1,2-Dichlorobenzene	5.7	U vs	5.7	0.44	
107-06-2	1,2-Dichloroethane	5.7	U vs	5.7	0.29	
78-87-5	1,2-Dichloropropane	5.7	U vs	5.7	2.8	
541-73-1	1,3-Dichlorobenzene	5.7	U vs	5.7	0.29	
106-46-7	1,4-Dichlorobenzene	5.7	U vs	5.7	0.80	
78-93-3	2-Butanone (MEK)	28	U vs	28	2.1	
591-78-6	2-Hexanone	28	U vs	28	2.8	
108-10-1	4-Methyl-2-pentanone (MIBK)	28	U vs	28	1.9	
67-64-1	Acetone	8.4	J vs	28	4.8	
71-43-2	Benzene	5.7	U vs	5.7	0.28	
75-27-4	Bromodichloromethane	5.7	U vs	5.7	0.76	
75-25-2	Bromoform	5.7	U vs	5.7	2.8	
74-83-9	Bromomethane	5.7	U vs	5.7	0.51	
75-15-0	Carbon disulfide	5.7	U vs	5.7	2.8	
56-23-5	Carbon tetrachloride	5.7	U vs	5.7	0.55	
108-90-7	Chlorobenzene	5.7	U vs	5.7	0.75	
124-48-1	Dibromochloromethane	5.7	U vs	5.7	0.73	
75-00-3	Chloroethane	5.7	U vs	5.7	1.3	
67-66-3	Chloroform	5.7 UJ 0.65	~~J~~ B vs	5.7	0.35	UJ
74-87-3	Chloromethane	5.7	U vs	5.7	0.34	
156-59-2	cis-1,2-Dichloroethene	5.7	U vs	5.7	0.73	
10061-01-5	cis-1,3-Dichloropropene	5.7	U vs	5.7	0.82	
110-82-7	Cyclohexane	5.7	U vs	5.7	0.80	UJ

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION | Lab Sample ID: 480-225489-1

Matrix: Solid | Lab File ID: M16457.D

Analysis Method: 8260C | Date Collected: 11/13/2024 14:30

Sample wt/vol: 5.18(g) | Date Analyzed: 11/19/2024 03:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.0 % Solids: 85.0 | Level: (low/med) Low

Analysis Batch No.: 732825 | Units: ug/Kg

Preparation Batch No.: 732824 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.7	U vs	5.7	0.47
100-41-4	Ethylbenzene	5.7	U vs	5.7	0.39
106-93-4	1,2-Dibromoethane	5.7	U vs	5.7	0.73
98-82-8	Isopropylbenzene	5.7	U vs	5.7	0.86
79-20-9	Methyl acetate	28	U vs	28	3.4
1634-04-4	Methyl tert-butyl ether	5.7	U vs	5.7	0.56
108-87-2	Methylcyclohexane	5.7	U vs	5.7	0.86
75-09-2	Methylene Chloride	5.7	U vs	5.7	2.6
100-42-5	Styrene	5.7	U vs	5.7	0.28
127-18-4	Tetrachloroethene	3.8	J vs	5.7	0.76
108-88-3	Toluene	5.7	U vs	5.7	0.43
156-60-5	trans-1,2-Dichloroethene	5.7	U vs	5.7	0.59
10061-02-6	trans-1,3-Dichloropropene	5.7	U vs	5.7	2.5
79-01-6	Trichloroethene	5.7	U vs	5.7	1.2
75-69-4	Trichlorofluoromethane	5.7	U vs	5.7	0.54
75-01-4	Vinyl chloride	5.7	U vs	5.7	0.69
1330-20-7	Xylenes, Total	11	U vs	11	0.95

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	86		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		64-126
460-00-4	4-Bromofluorobenzene (Surr)	85		72-126
1868-53-7	Dibromofluoromethane (Surr)	95		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Buffalo | Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION | Lab Sample ID: 480-225489-1

Matrix: Solid | Lab File ID: M16457.D

Analysis Method: 8260C | Date Collected: 11/13/2024 14:30

Sample wt/vol: 5.18(g) | Date Analyzed: 11/19/2024 03:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.0 % Solids: 85.0 | Level: (low/med) Low

Analysis Batch No.: 732825 | Units: ug/Kg

Preparation Batch No.: 732824 | Instrument ID: HP5977M

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION | Lab Sample ID: 480-225489-1

Matrix: Solid | Lab File ID: V3170039.d

Analysis Method: 8270D | Date Collected: 11/13/2024 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2024 06:44

Sample wt/vol: 30.62(g) | Date Analyzed: 11/18/2024 22:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 15.0 % Solids: 85.0 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 732742 | Units: ug/Kg

Preparation Batch No.: 732500 | Instrument ID: HP5973V

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
123-91-1	1,4-Dioxane	120	U	120	63	
95-95-4	2,4,5-Trichlorophenol	200	U	200	53	
88-06-2	2,4,6-Trichlorophenol	200	U	200	39	
120-83-2	2,4-Dichlorophenol	200	U	200	21	
105-67-9	2,4-Dimethylphenol	200	U	200	47	
51-28-5	2,4-Dinitrophenol	1900	U	1900	900	
121-14-2	2,4-Dinitrotoluene	200	U	200	40	
606-20-2	2,6-Dinitrotoluene	200	U	200	23	
91-58-7	2-Chloronaphthalene	200	U	200	32	
95-57-8	2-Chlorophenol	380	U	380	36	
91-57-6	2-Methylnaphthalene	200	U	200	39	
95-48-7	2-Methylphenol	200	U	200	23	
88-74-4	2-Nitroaniline	380	U	380	29	
88-75-5	2-Nitrophenol	200	U	200	55	
91-94-1	3,3'-Dichlorobenzidine	380	U	380	230	
99-09-2	3-Nitroaniline	380	U	380	54	
534-52-1	4,6-Dinitro-2-methylphenol	380	U	380	200	
101-55-3	4-Bromophenyl phenyl ether	200	U	200	28	
59-50-7	4-Chloro-3-methylphenol	200	U	200	48	
106-47-8	4-Chloroaniline	200	U	200	48	
7005-72-3	4-Chlorophenyl phenyl ether	200	U	200	24	
106-44-5	4-Methylphenol	380	U	380	23	
100-01-6	4-Nitroaniline	380	U	380	100	
100-02-7	4-Nitrophenol	380	U	380	140	
83-32-9	Acenaphthene	200	U	200	29	
208-96-8	Acenaphthylene	200	U	200	25	
98-86-2	Acetophenone	200	U	200	27	
120-12-7	Anthracene	200	U	200	48	
1912-24-9	Atrazine	200	U	200	68	
100-52-7	Benzaldehyde	200	U	200	160	UJ
56-55-3	Benzo[a]anthracene	200	U	200	20	

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION | Lab Sample ID: 480-225489-1

Matrix: Solid | Lab File ID: V3170039.d

Analysis Method: 8270D | Date Collected: 11/13/2024 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2024 06:44

Sample wt/vol: 30.62(g) | Date Analyzed: 11/18/2024 22:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 15.0 % Solids: 85.0 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 732742 | Units: ug/Kg

Preparation Batch No.: 732500 | Instrument ID: HP5973V

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	45	J	200	29
205-99-2	Benzo[b]fluoranthene	56	J	200	31
191-24-2	Benzo[g,h,i]perylene	41	J	200	21
207-08-9	Benzo[k]fluoranthene	200	U	200	25
92-52-4	Biphenyl	200	U	200	29
108-60-1	bis (2-chloroisopropyl) ether	200	U	200	39
111-91-1	Bis(2-chloroethoxy)methane	200	U	200	42
111-44-4	Bis(2-chloroethyl)ether	200	U	200	25
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	200	67
85-68-7	Butyl benzyl phthalate	200	U	200	32
105-60-2	Caprolactam	200	U	200	59
86-74-8	Carbazole	200	U	200	23
218-01-9	Chrysene	200	U	200	44
53-70-3	Dibenz(a,h)anthracene	200	U	200	35
132-64-9	Dibenzofuran	200	U	200	23
84-66-2	Diethyl phthalate	200	U	200	25
131-11-3	Dimethyl phthalate	200	U	200	23
84-74-2	Di-n-butyl phthalate	200	U	200	33
117-84-0	Di-n-octyl phthalate	200	U	200	23
206-44-0	Fluoranthene	200	U	200	21
86-73-7	Fluorene	200	U	200	23
118-74-1	Hexachlorobenzene	200	U	200	27
87-68-3	Hexachlorobutadiene	47	J	200	29
77-47-4	Hexachlorocyclopentadiene	200	U	200	27
67-72-1	Hexachloroethane	200	U	200	25
193-39-5	Indeno[1,2,3-cd]pyrene	58	J	200	24
78-59-1	Isophorone	200	U	200	42
91-20-3	Naphthalene	200	U	200	25
98-95-3	Nitrobenzene	200	U	200	22
621-64-7	N-Nitrosodi-n-propylamine	200	U	200	33
86-30-6	N-Nitrosodiphenylamine	200	U	200	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION | Lab Sample ID: 480-225489-1

Matrix: Solid | Lab File ID: V3170039.d

Analysis Method: 8270D | Date Collected: 11/13/2024 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2024 06:44

Sample wt/vol: 30.62(g) | Date Analyzed: 11/18/2024 22:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 15.0 % Solids: 85.0 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 732742 | Units: ug/Kg

Preparation Batch No.: 732500 | Instrument ID: HP5973V

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
87-86-5	Pentachlorophenol	380	U	380	200
85-01-8	Phenanthrene	200	U	200	29
108-95-2	Phenol	200	U	200	30
129-00-0	Pyrene	200	U	200	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	101		26-143
321-60-8	2-Fluorobiphenyl (Surr)	99		50-121
367-12-4	2-Fluorophenol (Surr)	81		36-120
4165-60-0	Nitrobenzene-d5 (Surr)	85		40-121
4165-62-2	Phenol-d5 (Surr)	89		41-120
1718-51-0	p-Terphenyl-d14 (Surr)	97		46-143

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION | Lab Sample ID: 480-225489-1

Matrix: Solid | Lab File ID: 25_85-208.D

Analysis Method: 8081B | Date Collected: 11/13/2024 14:30

Extraction Method: 3550C | Date Extracted: 11/17/2024 06:39

Sample wt/vol: 30.79(g) | Date Analyzed: 11/18/2024 14:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 15.0 % Solids: 85.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 732722 | Units: ug/Kg

Preparation Batch No.: 732687 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
72-54-8	4,4'-DDD	1.9	U	1.9	0.37	
72-55-9	4,4'-DDE	1.9	U	1.9	0.40	
50-29-3	4,4'-DDT	1.9 UJ	~~1.2 J B~~	1.9	0.45	UJ
309-00-2	Aldrin	1.9	U	1.9	0.47	
319-84-6	alpha-BHC	1.9	U	1.9	0.34	
319-85-7	beta-BHC	1.9	U	1.9	0.34	
5103-71-9	Chlordane (.alpha.)	1.9	U	1.9	0.95	
319-86-8	delta-BHC	1.9	U	1.9	0.36	
60-57-1	Dieldrin	1.9	U	1.9	0.46	
959-98-8	Endosulfan I	1.9	U	1.9	0.37	
33213-65-9	Endosulfan II	1.9	U	1.9	0.34	
1031-07-8	Endosulfan sulfate	1.9	U	1.9	0.36	
72-20-8	Endrin	1.9	U	1.9	0.38	
76-44-8	Heptachlor	1.9	U	1.9	0.41	
58-89-9	Lindane	1.9	U	1.9	0.35	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	55		45-120
877-09-8	Tetrachloro-m-xylene	71		30-124

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Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

No data validation qualifiers were added

MKP 12/17/2024

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION | Lab Sample ID: 480-225489-1

Matrix: Solid | Lab File ID: 70002181.D

Analysis Method: 8082A | Date Collected: 11/13/2024 14:30

Extraction Method: 3550C | Date Extracted: 11/15/2024 06:47

Sample wt/vol: 2.57(g) | Date Analyzed: 11/16/2024 08:18

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.0 % Solids: 85.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 732517 | Units: mg/Kg

Preparation Batch No.: 732501 | Instrument ID: HP6890-7

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.23	U	0.23	0.045
11104-28-2	PCB-1221	0.23	U	0.23	0.045
11141-16-5	PCB-1232	0.23	U	0.23	0.045
53469-21-9	PCB-1242	0.23	U	0.23	0.045
12672-29-6	PCB-1248	0.23	U	0.23	0.045
11097-69-1	PCB-1254	0.23	U	0.23	0.11
11096-82-5	PCB-1260	0.23	U	0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	98		60-154
2051-24-3	DCB Decachlorobiphenyl	108		65-174

Method 8151A

Herbicides (GC) by Method 8151A

No data validation qualifiers were added

MKP 12/17/2024

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION | Lab Sample ID: 480-225489-1

Matrix: Solid | Lab File ID: 2024-11-19 19-28-13-05-00-17.D

Analysis Method: 8151A | Date Collected: 11/13/2024 14:30

Extraction Method: 8151A | Date Extracted: 11/17/2024 06:44

Sample wt/vol: 30.88(g) | Date Analyzed: 11/19/2024 19:28

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 15.0 % Solids: 85.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 732926 | Units: ug/Kg

Preparation Batch No.: 732688 | Instrument ID: AG8860-1

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-72-1	2,4,5-TP (Silvex)	19	U	19	6.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	74		28-129

1633

Per- and Polyfluoroalkyl Substances by LC/MS/MS

No data validation qualifiers were added

MKP 12/17/2024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION | Lab Sample ID: 480-225489-1

Matrix: Solid | Lab File ID: Awater_reruns11.d

Analysis Method: Draft-3 1633 | Date Collected: 11/13/2024 14:30

Extraction Method: 1633 Shake | Date Extracted: 11/18/2024 09:10

Sample wt/vol: 1.56(g) | Date Analyzed: 11/19/2024 18:37

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 15.0 % Solids: 85.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 635892 | Units: ug/Kg

Preparation Batch No.: 635657 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.75	U	0.75	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.094
307-24-4	Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.047
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.047
335-67-1	Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.047
375-95-1	Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.047
335-76-2	Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.047
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.047
307-55-1	Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.047
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.047
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.047
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.047
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.047
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.047
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.047
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.047
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.047
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.047
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.75	U	0.75	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.75	U	0.75	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.75	U	0.75	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.047
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.047
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.047
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.047

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION | Lab Sample ID: 480-225489-1

Matrix: Solid | Lab File ID: Awater_reruns11.d

Analysis Method: Draft-3 1633 | Date Collected: 11/13/2024 14:30

Extraction Method: 1633 Shake | Date Extracted: 11/18/2024 09:10

Sample wt/vol: 1.56(g) | Date Analyzed: 11/19/2024 18:37

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 15.0 % Solids: 85.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 635892 | Units: ug/Kg

Preparation Batch No.: 635657 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.047
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9	U	1.9	0.47
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.9	U	1.9	0.47
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.75	U	0.75	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.75	U	0.75	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.094
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.094
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.75	U	0.75	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.75	U	0.75	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U	0.38	0.094
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.94	U	0.94	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.7	U	4.7	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.7	U	4.7	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.047
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.094

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION Lab Sample ID: 480-225489-1

Matrix: Solid Lab File ID: Awater_reruns11.d

Analysis Method: Draft-3 1633 Date Collected: 11/13/2024 14:30

Extraction Method: 1633 Shake Date Extracted: 11/18/2024 09:10

Sample wt/vol: 1.56(g) Date Analyzed: 11/19/2024 18:37

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 15.0 % Solids: 85.0 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 635892 Units: ug/Kg

Preparation Batch No.: 635657 Instrument ID: LCMS04

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	85.0		20-150
STL01893	13C5 PFPeA	88.9		20-150
STL02577	13C5 PFHxA	87.5		20-150
STL01892	13C4 PFHpA	84.6		20-150
STL01052	13C8 PFOA	95.5		20-150
STL02578	13C9 PFNA	95.0		20-150
STL02579	13C6 PFDA	90.1		20-150
STL02580	13C7 PFUnA	86.8		20-150
STL02116	13C2 PFTeDA	81.6		20-150
STL02337	13C3 PFBS	96.6		20-150
STL02581	13C3 PFHxS	92.8		20-150
STL01054	13C8 PFOS	93.7		20-150
STL01056	13C8 PFOSA	85.9		20-150
STL02118	d3-NMeFOSAA	108		20-150
STL02117	d5-NEtFOSAA	109		20-150
STL02395	M2-4:2 FTS	110		20-150
STL02279	M2-6:2 FTS	113		20-150
STL02280	M2-8:2 FTS	110		20-150
STL02255	13C3 HFPO-DA	87.6		20-150
STL02277	d7-N-MeFOSE-M	96.9		20-150
STL02278	d9-N-EtFOSE-M	104		20-150
STL02704	d5-NEtPFOSA	76.1		20-150
STL02705	D3-NMeFOSA	68.3		20-150
STL02703	13C2-PFDoDA	83.0		20-150

METALS

No data validation qualifiers were added

MKP 12/17/2024

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-225489-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
TANK LOCATION	480-225489-1

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1
Lab Name: Eurofins Buffalo
Job No.: 480-225489-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/13/2024 14:30
Reporting Basis: DRY
Date Received: 11/13/2024 15:34
Preparation Batch Number: 732559
Instrument ID: ICAP4
% Solids: 85.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	7580	11.9	10.3	mg/Kg			1	6010C
7440-36-0	Antimony	17.8	17.8	0.63	mg/Kg	U		1	6010C
7440-38-2	Arsenic	2.1	2.4	1.0	mg/Kg	J		1	6010C
7440-39-3	Barium	25.0	0.59	0.17	mg/Kg			1	6010C
7440-41-7	Beryllium	0.35	0.24	0.048	mg/Kg			1	6010C
7440-43-9	Cadmium	1.3	0.24	0.083	mg/Kg		B	1	6010C
7440-70-2	Calcium	104000	297	161	mg/Kg			5	6010C
7440-47-3	Chromium	8.5	0.59	0.43	mg/Kg			1	6010C
7440-48-4	Cobalt	4.7	0.59	0.12	mg/Kg			1	6010C
7440-50-8	Copper	9.5	1.2	0.68	mg/Kg			1	6010C
7439-89-6	Iron	9980	11.9	10.1	mg/Kg			1	6010C
7439-92-1	Lead	29.1	1.2	0.55	mg/Kg			1	6010C
7439-95-4	Magnesium	62900	119	50.5	mg/Kg			5	6010C
7439-96-5	Manganese	434	1.2	0.33	mg/Kg			1	6010C
7440-02-0	Nickel	9.8	5.9	0.30	mg/Kg			1	6010C
7440-09-7	Potassium	2110	35.7	28.8	mg/Kg			1	6010C
7782-49-2	Selenium	4.8	4.8	0.95	mg/Kg	U		1	6010C
7440-22-4	Silver	0.71	0.71	0.24	mg/Kg	U		1	6010C
7440-23-5	Sodium	164	167	73.0	mg/Kg	J		1	6010C
7440-28-0	Thallium	7.1	7.1	0.90	mg/Kg	U		1	6010C
7440-62-2	Vanadium	13.7	0.59	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	521	2.4	1.2	mg/Kg			1	6010C
7439-97-6	Mercury	0.024	0.024	0.0055	mg/Kg			1	7471B

GENERAL CHEMISTRY

No data validation qualifiers were added

MKP 12/17/2024

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-225489-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
TANK LOCATION	480-225489-1

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job Number: 480-225489-1

SDG No.:

Project: The Nest Site Analysis

Client Sample ID	Lab Sample ID
TANK LOCATION	480-225489-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1
Lab Name: Eurofins Buffalo
Job No.: 480-225489-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/13/2024 14:30
Reporting Basis: DRY
Date Received: 11/13/2024 15:34
Preparation Batch Number: 733148
Instrument ID: SEAL 1
% Solids: 85.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.0	1.0	0.50	mg/Kg	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: TANK LOCATION
Lab Sample ID: 480-225489-1
Lab Name: Eurofins Edison
Job No.: 480-225489-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/13/2024 14:30
Reporting Basis: DRY
Date Received: 11/13/2024 15:34
Preparation Batch Number: 1008421
Instrument ID: WetHexSpec
% Solids: 85.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.3	2.3	0.97	mg/Kg	U		1	7196A

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: Joseph Gambino	Lab PM: J. Beninati	Carrier Tracking No(s):	COC No:
Client Contact: Jacob COX	Phone: 716 249.6880	E-Mail:	State of Origin:	Page:
Company: BE3 (Bridges Engineering)		Accreditations Required (See note):		Job #:
Address: 960 Busti Ave Suite B-150	Due Date Requested:			
City: Buffalo	TAT Requested (days): Standard			
State, Zip: NY, 14213	PO #:			
Phone: 716 249.6880				
Email: JCOX@BE3corp.com	WO #:			
Site: The Nest	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C TCL VOC + TICs	6010C, 7471B, 4081B	8082A, 8151A, 8270D	7196A + 9012B	1633 - Final 1633	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
Tank Location	11/13/24	1430	G	S			X	X	X	X	X		Added Hex Chrom + Cyanide

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. T... 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 laborator... 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...

480-225489 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if s...
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Joseph Gambino	11-13-24 1534	BE3	TAB	11-13-24 1534	TAB
	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: 12.4 no ICE IR# SC

Ver: 06/08/2021

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90445.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-225489-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 11/26/2024			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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			Other: N/A

R085-38

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:						
TANK LOCATION (480-225489-1)	11/13/24	14:30 Eastern	G	Solid			X	2	

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
1	[illegible] 11/14/24 1600	11/14/24 1600	FA	MARTIN J SMITH	11-15-24 940	EC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-90446.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP - New York		Job #: 480-225489-1
Address: 777 New Durham Road,	Due Date Requested: 11/26/2024			
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: The Nest Site Analysis	Project #: 48028073			
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)	7196A/3060A Hexavalent Chromium 7196	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TANK LOCATION (480-225489-1)	11/13/24	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:	Date/Time:	Company
1		11-13-24 1600		[illegible] fed Ex	11/16/24 1150	ETA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 1.0/1.2 IR9

Ver 10/10/2024

Appendix B

Laboratory QC Documentation

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-225489-1

SDG No.:

Lab Sample ID: CCVIS 480-732825/4 Calibration Date: 11/18/2024 19:56

Instrument ID: HP5977M Calib Start Date: 08/12/2024 23:40

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 08/13/2024 02:04

Lab File ID: M16437.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Ave	1.713	1.542	0.1000	45.0	50.0	-10.0	50.0	
Chloromethane	Ave	1.928	2.136	0.1000	55.4	50.0	10.8	20.0	
Vinyl chloride	Ave	1.421	1.571	0.1000	55.3	50.0	10.6	20.0	
Butadiene	Ave	1.543	1.797		58.2	50.0	16.5	20.0	
Bromomethane	Ave	0.8919	0.8623	0.1000	48.3	50.0	-3.3	50.0	
Chloroethane	Ave	0.8672	0.9802	0.1000	56.5	50.0	13.0	50.0	
Trichlorofluoromethane	Ave	1.730	1.811	0.1000	52.3	50.0	4.7	20.0	
Dichlorofluoromethane	Ave	2.295	2.447		53.3	50.0	6.6	20.0	
Ethyl ether	Ave	1.187	1.256		52.9	50.0	5.8	20.0	
Acrolein	Ave	0.2021	0.1368		169	250	-32.3	50.0	
1,1-Dichloroethene	Ave	0.9599	1.073	0.1000	55.9	50.0	11.7	20.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.118	1.213	0.1000	54.3	50.0	8.5	20.0	
Acetone	Ave	0.5032	0.5138	0.1000	255	250	2.1	50.0	
Iodomethane	Ave	1.937	1.868		48.2	50.0	-3.6	20.0	
Carbon disulfide	Ave	3.385	3.636	0.1000	53.7	50.0	7.4	20.0	
Allyl chloride	Ave	1.971	2.266		57.5	50.0	15.0	20.0	
Methyl acetate	Ave	1.061	1.091	0.1000	103	100	2.8	50.0	
Methylene Chloride	Lin1		1.321	0.1000	49.8	50.0	-0.4	20.0	
2-Methyl-2-propanol	Ave	0.1933	0.1452		376	500	-24.9	50.0	
Methyl tert-butyl ether	Ave	3.729	3.376	0.1000	45.3	50.0	-9.5	20.0	
trans-1,2-Dichloroethene	Ave	1.152	1.250	0.1000	54.3	50.0	8.5	20.0	
Acrylonitrile	Ave	0.5498	0.5544		504	500	0.8	20.0	
Hexane	Ave	1.843	2.252		61.1	50.0	22.2*	20.0	NT
1,1-Dichloroethane	Ave	2.176	2.400	0.2000	55.2	50.0	10.3	20.0	
Vinyl acetate	Ave	2.551	2.567		101	100	0.6	20.0	
2,2-Dichloropropane	Ave	1.314	1.215		46.2	50.0	-7.5	20.0	
cis-1,2-Dichloroethene	Ave	1.322	1.356	0.1000	51.3	50.0	2.6	20.0	
2-Butanone (MEK)	Ave	0.6628	0.6958	0.1000	262	250	5.0	20.0	
Chlorobromomethane	Ave	0.6993	0.6599		47.2	50.0	-5.6	20.0	
Tetrahydrofuran	Ave	0.4504	0.4427		98.3	100	-1.7	20.0	
Chloroform	Ave	2.170	2.120	0.2000	48.8	50.0	-2.3	20.0	
1,1,1-Trichloroethane	Ave	1.634	1.681	0.1000	51.4	50.0	2.9	20.0	
Cyclohexane	Ave	2.234	2.745	0.1000	61.4	50.0	22.9*	20.0	
Carbon tetrachloride	Ave	1.408	1.402	0.1000	49.8	50.0	-0.4	20.0	
1,1-Dichloropropene	Ave	1.432	1.608		56.2	50.0	12.3	20.0	
Benzene	Ave	4.353	4.580	0.5000	52.6	50.0	5.2	20.0	
Isobutyl alcohol	Ave	0.0714	0.0604		1060	1250	-15.3	50.0	
1,2-Dichloroethane	Ave	1.711	1.679	0.1000	49.1	50.0	-1.8	20.0	
n-Heptane	Ave	1.792	2.326		64.9	50.0	29.8*	20.0	NT
Trichloroethene	Ave	1.132	1.171	0.2000	51.7	50.0	3.4	20.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225489-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-732824/2-A

Matrix: Solid | Lab File ID: M16441.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 11/18/2024 21:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 732825 | Units: ug/Kg

Preparation Batch No.: 732824 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.61
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.39
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.25
78-87-5	1,2-Dichloropropane	5.0	U	5.0	2.5
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.26
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.70
78-93-3	2-Butanone (MEK)	25	U	25	1.8
591-78-6	2-Hexanone	25	U	25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	1.6
67-64-1	Acetone	25	U	25	4.2
71-43-2	Benzene	5.0	U	5.0	0.25
75-27-4	Bromodichloromethane	5.0	U	5.0	0.67
75-25-2	Bromoform	5.0	U	5.0	2.5
74-83-9	Bromomethane	5.0	U	5.0	0.45
75-15-0	Carbon disulfide	5.0	U	5.0	2.5
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.48
108-90-7	Chlorobenzene	5.0	U	5.0	0.66
124-48-1	Dibromochloromethane	5.0	U	5.0	0.64
75-00-3	Chloroethane	5.0	U	5.0	1.1
67-66-3	Chloroform	0.559	J	5.0	0.31
74-87-3	Chloromethane	5.0	U	5.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.72
110-82-7	Cyclohexane	5.0	U	5.0	0.70
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	0.41

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-225489-1 Analy Batch No.: 732134

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/13/2024 09:55 Calibration End Date: 11/13/2024 13:07 Calibration ID: 47571

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-732134/3	V3169913.d
Level 2	IC 480-732134/4	V3169914.d
Level 3	IC 480-732134/5	V3169915.d
Level 4	IC 480-732134/6	V3169916.d
Level 5	IC 480-732134/7	V3169917.d
Level 6	ICIS 480-732134/8	V3169918.d
Level 7	IC 480-732134/9	V3169919.d
Level 8	IC 480-732134/10	V3169920.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.7079	0.7050 0.6885	0.6354 0.6871	0.7264	0.6676	Ave		0.6883			0.0100	4.3		20.0			
N-Nitrosodimethylamine	1.0635	0.9944 1.0412	1.0317 1.0268	0.9957	1.0090	Ave		1.0232			0.0100	2.5		20.0			
Pyridine	0.9453	0.7410 0.9664	0.7013 0.9432	0.9472	0.8731	Lin2	-1.258	0.9462			0.0100	7.2		20.0	0.9930		0.9900
Benzaldehyde	0.9202	1.3395 0.7350	1.3002 +++++	1.3360	1.2473	Ave		1.1464			0.0100	22.3	*	20.0			
Phenol	2.0470	2.0112 2.0337	2.0099 2.0123	2.0579	2.0753	Ave		2.0353			0.8000	1.3		20.0			
Aniline	2.3080	2.2474 2.3032	2.2294 2.3048	2.3058	2.2893	Ave		2.2840			0.0100	1.4		20.0			
Bis(2-chloroethyl)ether	1.4976	1.4914 1.5374	1.5057 1.5096	1.5517	1.5383	Ave		1.5188			0.7000	1.5		20.0			
2-Chlorophenol	1.3625	1.3056 1.3708	1.3250 1.3765	1.3747	1.3818	Ave		1.3567			0.8000	2.2		20.0			
n-Decane	2.0334	1.9669 2.0043	2.0599 1.9968	2.0533	2.0127	Ave		2.0182			0.0100	1.6		20.0			
1,3-Dichlorobenzene	1.5378	1.5374 1.5220	1.5597 1.5045	1.5863	1.5400	Ave		1.5411			0.0100	1.7		20.0			
1,4-Dichlorobenzene	1.5583	1.5856 1.5275	1.5617 1.5039	1.5845	1.5380	Ave		1.5514			0.0100	1.9		20.0			
Benzyl alcohol	0.9068	0.8385 0.9340	0.8721 0.9181	0.8928	0.9529	Ave		0.9022			0.0100	4.3		20.0			
1,2-Dichlorobenzene	1.4511	1.4376 1.4293	1.5147 1.4159	1.5205	1.4397	Ave		1.4584			0.0100	2.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-225489-1

SDG No.:

Lab Sample ID: CCVIS 480-732742/3 Calibration Date: 11/18/2024 12:08

Instrument ID: HP5973V Calib Start Date: 11/13/2024 09:55

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/13/2024 13:07

Lab File ID: V3170016.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6883	0.6945	0.0100	40400	40000	0.9	20.0
N-Nitrosodimethylamine	Ave	1.023	0.9924	0.0100	38800	40000	-3.0	50.0
Pyridine	Lin2		0.8141	0.0100	70200	80000	-12.3	50.0
Benzaldehyde	Ave	1.146	0.8604	0.0100	30000	40000	-24.9	50.0
Phenol	Ave	2.035	1.984	0.8000	39000	40000	-2.5	20.0
Aniline	Ave	2.284	2.217	0.0100	38800	40000	-2.9	20.0
Bis(2-chloroethyl)ether	Ave	1.519	1.493	0.7000	39300	40000	-1.7	20.0
2-Chlorophenol	Ave	1.357	1.378	0.8000	40600	40000	1.5	20.0
n-Decane	Ave	2.018	2.023	0.0100	40100	40000	0.2	20.0
1,3-Dichlorobenzene	Ave	1.541	1.546	0.0100	40100	40000	0.3	20.0
1,4-Dichlorobenzene	Ave	1.551	1.553	0.0100	40000	40000	0.1	20.0
Benzyl alcohol	Ave	0.9022	0.8922	0.0100	39600	40000	-1.1	20.0
1,2-Dichlorobenzene	Ave	1.458	1.445	0.0100	39600	40000	-0.9	20.0
Indene	Ave	0.6919	0.7108	0.0100	247000	240000	2.7	20.0
2-Methylphenol	Ave	1.269	1.232	0.7000	38800	40000	-2.9	20.0
bis (2-chloroisopropyl) ether	Ave	2.409	2.292	0.0100	38000	40000	-4.9	20.0
Acetophenone	Ave	1.886	1.810	0.0100	38400	40000	-4.1	20.0
N-Nitrosodi-n-propylamine	Ave	1.090	1.052	0.5000	38600	40000	-3.5	20.0
4-Methylphenol	Ave	1.285	1.245	0.6000	38800	40000	-3.1	20.0
Hexachloroethane	Ave	0.5997	0.5964	0.3000	39800	40000	-0.5	20.0
Nitrobenzene	Ave	0.4107	0.4244	0.2000	41300	40000	3.3	20.0
Isophorone	Ave	0.7464	0.7414	0.4000	39700	40000	-0.7	20.0
2-Nitrophenol	Lin2		0.1744	0.1000	44100	40000	10.1	20.0
2,4-Dimethylphenol	Ave	0.3611	0.3682	0.2000	40800	40000	2.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.4573	0.4637	0.3000	40600	40000	1.4	20.0
2,4-Dichlorophenol	Ave	0.2749	0.2801	0.2000	40800	40000	1.9	20.0
Benzoic acid	Lin1		0.2559	0.0100	251000	240000	4.5	50.0
1,2,4-Trichlorobenzene	Ave	0.2981	0.3141	0.0100	42100	40000	5.4	20.0
Naphthalene	Ave	1.015	1.027	0.7000	40500	40000	1.1	20.0
4-Chloroaniline	Ave	0.4117	0.4101	0.0100	39800	40000	-0.4	20.0
2,6-Dichlorophenol	Ave	0.2621	0.2764	0.0100	42200	40000	5.5	20.0
Hexachlorobutadiene	Ave	0.1755	0.1842	0.0100	42000	40000	4.9	20.0
Caprolactam	Lin2		0.1040	0.0100	37800	40000	-5.4	50.0
4-Chloro-3-methylphenol	Ave	0.2888	0.2902	0.2000	40200	40000	0.5	20.0
2-Methylnaphthalene	Lin2		0.6234	0.4000	41300	40000	3.1	20.0
1-Methylnaphthalene	Ave	0.6016	0.6321	0.0100	42000	40000	5.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5365	0.5587	0.0100	41700	40000	4.1	20.0
Hexachlorocyclopentadiene	Lin2		0.4037	0.0500	43300	40000	8.3	20.0
2,4,6-Trichlorophenol	Lin2		0.3696	0.2000	43200	40000	8.1	20.0
2,4,5-Trichlorophenol	Lin2		0.3829	0.2000	40700	40000	1.7	20.0

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-225489-1

SDG No.:

Client Sample ID: TANK LOCATION Lab Sample ID: 480-225489-1

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 11/18/2024 14:29 Date Analyzed (2): 11/18/2024 14:29

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
4,4'-DDT	1		5.17	5.14	5.20	1.2		36.6
	2		6.24	6.22	6.28	0.84		

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-225489-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-732687/1-A

Matrix: Solid | Lab File ID: 25_85-193.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 11/17/2024 06:39

Sample wt/vol: 30(g) | Date Analyzed: 11/18/2024 09:35

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 732722 | Units: ug/Kg

Preparation Batch No.: 732687 | Instrument ID: HP6890-25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	1.7	U	1.7	0.32
72-55-9	4,4'-DDE	1.7	U	1.7	0.35
50-29-3	4,4'-DDT	1.10	J	1.7	0.39
309-00-2	Aldrin	1.7	U	1.7	0.41
319-84-6	alpha-BHC	1.7	U	1.7	0.30
319-85-7	beta-BHC	1.7	U	1.7	0.30
5103-71-9	Chlordane (.alpha.)	1.7	U	1.7	0.83
319-86-8	delta-BHC	1.7	U	1.7	0.31
60-57-1	Dieldrin	1.7	U	1.7	0.40
959-98-8	Endosulfan I	1.7	U	1.7	0.32
33213-65-9	Endosulfan II	1.7	U	1.7	0.30
1031-07-8	Endosulfan sulfate	1.7	U	1.7	0.31
72-20-8	Endrin	1.7	U	1.7	0.33
76-44-8	Heptachlor	1.7	U	1.7	0.36
58-89-9	Lindane	1.7	U	1.7	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	54		45-120
877-09-8	Tetrachloro-m-xylene	62		30-124

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Buffalo Job No.: 480-225489-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-732559/1-A

Instrument Code: ICAP4 Batch No.: 732815

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	10	U		6010C
7440-36-0	Antimony	15.0	U		6010C
7440-38-2	Arsenic	2.0	U	^+	6010C
7440-39-3	Barium	0.50	U		6010C
7440-41-7	Beryllium	0.20	U		6010C
7440-43-9	Cadmium	0.0852	J		6010C
7440-70-2	Calcium	50.0	U		6010C
7440-47-3	Chromium	0.50	U		6010C
7440-48-4	Cobalt	0.50	U		6010C
7440-50-8	Copper	1.0	U		6010C
7439-89-6	Iron	10	U		6010C
7439-92-1	Lead	1.0	U		6010C
7439-95-4	Magnesium	20.0	U		6010C
7439-96-5	Manganese	1.0	U		6010C
7440-02-0	Nickel	5.0	U		6010C
7440-09-7	Potassium	30.0	U		6010C
7782-49-2	Selenium	4.0	U	^+	6010C
7440-22-4	Silver	0.60	U		6010C
7440-23-5	Sodium	140	U		6010C
7440-28-0	Thallium	6.0	U		6010C
7440-62-2	Vanadium	0.50	U		6010C
7440-66-6	Zinc	2.0	U		6010C

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

The NEST Site
333 1st Street
Niagara Falls, NY 14303
BCP Site # C932183

SDG: **L2464510**
4 air samples

Prepared for:

BE3 Corp.
960 Busti Avenue
Suite 150-B
Buffalo, NY 14213
Attention: Jacob Cox

December 2024

EDU *Environmental Data Usability* *10028 Deer Park Dr. Dansville, NY 14437* *585-991-9156*

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REVIEWER'S NARRATIVE
BE3 SDG L2464510: The NEST Site – Niagara Falls, NY

The data associated with this Sample Delivery Group (SDG) L2464510, analyzed by Eurofins Buffalo, Buffalo, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/17/2024

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	The NEST Site 333 1st Street Niagara Falls, NY 14303 BCP Site #: C932183
SAMPLING DATE:	November 05, 2024
SAMPLE TYPE:	4 air samples
LABORATORY:	Alpha Analytical Mansfield, MA
SDG No.:	L2464510

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 4 air samples collected on November 05, 2024. These samples were analyzed for TO-15 Volatile Organic Compounds.

All analyses were performed by Alpha Analytical, Mansfield, MA and analyzed as SDG L2464510. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Table 6-1. The table lists the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG L2464510, four samples were analyzed and results were reported for 260 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have rejected/qualified and the corresponding QC reasons.

Table 6-1 TO-15

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
VP-1 VP-4	Hexane	NJ detects	Q value < 70	Data are estimated and tentatively identified

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

www.alphalab.com

Alpha Analytical

Laboratory Code: 11148

SDG Number: L2464510

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Project Name: NEST
Project Number: Not Specified

Lab Number: L2464510
Report Date: 11/11/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2464510-01	VP-1	SOIL_VAPOR	333 1ST STREET	11/05/24 12:30	11/05/24
L2464510-02	VP-3	SOIL_VAPOR	333 1ST STREET	11/05/24 12:30	11/05/24
L2464510-03	VP-2	SOIL_VAPOR	333 1ST STREET	11/05/24 12:45	11/05/24
L2464510-04	VP-4	SOIL_VAPOR	333 1ST STREET	11/05/24 12:45	11/05/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on October 30, 2024. The canister certification data is provided as an addendum.

L2464510-03D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2464510-03D: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen. The pressurization resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

L2464510-04: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2464510-04D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J Anderson Report Date: 12/03/24

Title: Technical Director/Representative

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE _____ OF _____

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 11/6/24

ALPHA Job #: L2464510

Client Information

Client: BE3
Address: 960 Bust. Avenue
Buffalo NY 14213
Phone: 716-249-6880
Fax:
Email: JCox@BE3corp.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Nest
Project Location: 333 1st Street
Project #:
Project Manager:
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
☐ EMAIL (standard pdf report)
☐ Additional Deliverables: _____
Report to: (if different than Project Manager) _____

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
64510-01	VP-1	11/5/24	12:30PM	12:30PM	-29.83	-6.46	SV	JG	6L	687	01191	X	X				
02	VP-3		12:30PM	12:30PM	-29.82	-0.86	SV	JG	6L	3466	01352	X	X				
03	VP-2		12:45PM	12:45PM	-29.73	-7.96	SV	JG	6L	782	01284	X	X				
04	VP-4		12:45PM	12:45PM	-30.12	-6.13	SV	JG	6L	589	01111	X	X				

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time/clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Jul 1 Mtw 11/6/24 0650			
Frank Stars	11/5/24 1440	MM/L. PAGE	11/5/24 1440
MM/L. PAGE	11/5/24 1440	BUFFS.C	11/5/24 1440
Russell B Bailey	11-5-24 1512		

Form No: 101-02 Rev: (25-Sep-15)

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2464510-01	VP-1	01191	Flow 5	10/30/24	491722		-	-	-	Pass	3.0	3.3	10
L2464510-01	VP-1	687	6.0L Can	10/30/24	491722	L2461041-08	Pass	-30.0	-7.9	-	-	-	-
L2464510-02	VP-3	01352	Flow 5	10/30/24	491722		-	-	-	Pass	3.0	3.3	10
L2464510-02	VP-3	3466	6.0L Can	10/30/24	491722	L2461041-08	Pass	-30.0	-2.2	-	-	-	-
L2464510-03	VP-2	01284	Flow 5	10/30/24	491722		-	-	-	Pass	3.0	3.4	13
L2464510-03	VP-2	782	6.0L Can	10/30/24	491722	L2461041-08	Pass	-30.1	-9.1	-	-	-	-
L2464510-04	VP-4	01111	Flow 5	10/30/24	491722		-	-	-	Pass	3.0	3.4	13
L2464510-04	VP-4	589	6.0L Can	10/30/24	491722	L2461041-08	Pass	-30.0	-7.4	-	-	-	-

Volatile Organics in Air
TO-15 Low Level

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	Lab Number	: L2464510
Project Name	: NEST	Project Number	:
Lab ID	: L2464510-01	Date Collected	: 11/05/24 12:30
Client ID	: VP-1	Date Received	: 11/05/24
Sample Location	: 333 1ST STREET	Date Analyzed	: 11/09/24 22:01
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1931592	Instrument ID	: AIRLAB19
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.520	0.200	--	2.57	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.74	1.00	--	4.13	2.38	--	
75-69-4	Trichlorofluoromethane	14.6	0.200	--	82.0	1.12	--	
67-63-0	Isopropanol	1.28	0.500	--	3.15	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.291	0.200	--	0.906	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	1.64	0.200	--	8.01	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	Lab Number	: L2464510
Project Name	: NEST	Project Number	:
Lab ID	: L2464510-01	Date Collected	: 11/05/24 12:30
Client ID	: VP-1	Date Received	: 11/05/24
Sample Location	: 333 1ST STREET	Date Analyzed	: 11/09/24 22:01
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1931592	Instrument ID	: AIRLAB19
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3				
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U	
110-54-3	n-Hexane	0.293	0.200	--	1.03	0.705	--		NJ
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U	
71-43-2	Benzene	0.209	0.200	--	0.668	0.639	--		
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U	
110-82-7	Cyclohexane	0.248	0.200	--	0.854	0.688	--		
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U	
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U	
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U	
79-01-6	Trichloroethene	28.9	0.200	--	155	1.07	--		
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U	
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U	
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U	
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U	
127-18-4	Tetrachloroethene	27.2	0.200	--	184	1.36	--		
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U	
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U	
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U	
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U	

MKP 12/17/2024

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	Lab Number	: L2464510
Project Name	: NEST	Project Number	:
Lab ID	: L2464510-01	Date Collected	: 11/05/24 12:30
Client ID	: VP-1	Date Received	: 11/05/24
Sample Location	: 333 1ST STREET	Date Analyzed	: 11/09/24 22:01
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1931592	Instrument ID	: AIRLAB19
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	0.217	0.200	--	2.31	2.13	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	Lab Number	: L2464510
Project Name	: NEST	Project Number	:
Lab ID	: L2464510-02	Date Collected	: 11/05/24 12:30
Client ID	: VP-3	Date Received	: 11/05/24
Sample Location	: 333 1ST STREET	Date Analyzed	: 11/09/24 22:41
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1931593	Instrument ID	: AIRLAB19
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	1.00	0.200	--	4.94	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.58	1.00	--	3.75	2.38	--	
75-69-4	Trichlorofluoromethane	69.3	0.200	--	389	1.12	--	
67-63-0	Isopropanol	2.57	0.500	--	6.32	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.755	0.200	--	3.69	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	Lab Number	: L2464510
Project Name	: NEST	Project Number	:
Lab ID	: L2464510-02	Date Collected	: 11/05/24 12:30
Client ID	: VP-3	Date Received	: 11/05/24
Sample Location	: 333 1ST STREET	Date Analyzed	: 11/09/24 22:41
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1931593	Instrument ID	: AIRLAB19
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	0.234	0.200	--	1.47	1.26	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	4.28	0.200	--	23.0	1.07	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	6.85	0.200	--	46.5	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	**Lab Number**	: L2464510
Project Name	: NEST	**Project Number**	:
Lab ID	: L2464510-02	**Date Collected**	: 11/05/24 12:30
Client ID	: VP-3	**Date Received**	: 11/05/24
Sample Location	: 333 1ST STREET	**Date Analyzed**	: 11/09/24 22:41
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1931593	**Instrument ID**	: AIRLAB19
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	Lab Number	: L2464510
Project Name	: NEST	Project Number	:
Lab ID	: L2464510-03D	Date Collected	: 11/05/24 12:45
Client ID	: VP-2	Date Received	: 11/05/24
Sample Location	: 333 1ST STREET	Date Analyzed	: 11/09/24 23:21
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1.471
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1931594	Instrument ID	: AIRLAB19
Sample Amount	: 170 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	1.77	0.294	--	8.75	1.45	--	
74-87-3	Chloromethane	ND	0.294	--	ND	0.607	--	U
76-14-2	Freon-114	ND	0.294	--	ND	2.05	--	U
75-01-4	Vinyl chloride	ND	0.294	--	ND	0.752	--	U
106-99-0	1,3-Butadiene	ND	0.294	--	ND	0.650	--	U
74-83-9	Bromomethane	ND	0.294	--	ND	1.14	--	U
75-00-3	Chloroethane	ND	0.294	--	ND	0.776	--	U
64-17-5	Ethanol	ND	7.35	--	ND	13.8	--	U
593-60-2	Vinyl bromide	ND	0.294	--	ND	1.29	--	U
67-64-1	Acetone	1.83	1.47	--	4.35	3.49	--	
75-69-4	Trichlorofluoromethane	4.00	0.294	--	22.5	1.65	--	
67-63-0	Isopropanol	ND	0.735	--	ND	1.81	--	U
75-35-4	1,1-Dichloroethene	ND	0.294	--	ND	1.17	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.735	--	ND	2.23	--	U
75-09-2	Methylene chloride	ND	0.735	--	ND	2.55	--	U
107-05-1	3-Chloropropene	ND	0.294	--	ND	0.920	--	U
75-15-0	Carbon disulfide	0.409	0.294	--	1.27	0.916	--	
76-13-1	Freon-113	ND	0.294	--	ND	2.25	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.294	--	ND	1.17	--	U
75-34-3	1,1-Dichloroethane	ND	0.294	--	ND	1.19	--	U
1634-04-4	Methyl tert butyl ether	ND	0.294	--	ND	1.06	--	U
78-93-3	2-Butanone	ND	0.735	--	ND	2.17	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.294	--	ND	1.17	--	U
141-78-6	Ethyl Acetate	ND	0.735	--	ND	2.65	--	U
67-66-3	Chloroform	ND	0.294	--	ND	1.44	--	U
109-99-9	Tetrahydrofuran	ND	0.735	--	ND	2.17	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	Lab Number	: L2464510
Project Name	: NEST	Project Number	:
Lab ID	: L2464510-03D	Date Collected	: 11/05/24 12:45
Client ID	: VP-2	Date Received	: 11/05/24
Sample Location	: 333 1ST STREET	Date Analyzed	: 11/09/24 23:21
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1.471
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1931594	Instrument ID	: AIRLAB19
Sample Amount	: 170 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.294	--	ND	1.19	--	U
110-54-3	n-Hexane	ND	0.294	--	ND	1.04	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.294	--	ND	1.60	--	U
71-43-2	Benzene	ND	0.294	--	ND	0.939	--	U
56-23-5	Carbon tetrachloride	ND	0.294	--	ND	1.85	--	U
110-82-7	Cyclohexane	ND	0.294	--	ND	1.01	--	U
78-87-5	1,2-Dichloropropane	ND	0.294	--	ND	1.36	--	U
75-27-4	Bromodichloromethane	ND	0.294	--	ND	1.97	--	U
123-91-1	1,4-Dioxane	ND	0.294	--	ND	1.06	--	U
79-01-6	Trichloroethene	ND	0.294	--	ND	1.58	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.294	--	ND	1.37	--	U
142-82-5	Heptane	ND	0.294	--	ND	1.20	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.294	--	ND	1.33	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.735	--	ND	3.01	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.294	--	ND	1.33	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.294	--	ND	1.60	--	U
108-88-3	Toluene	ND	0.294	--	ND	1.11	--	U
591-78-6	2-Hexanone	ND	0.294	--	ND	1.20	--	U
124-48-1	Dibromochloromethane	ND	0.294	--	ND	2.50	--	U
106-93-4	1,2-Dibromoethane	ND	0.294	--	ND	2.26	--	U
127-18-4	Tetrachloroethene	0.842	0.294	--	5.71	1.99	--	
108-90-7	Chlorobenzene	ND	0.294	--	ND	1.35	--	U
100-41-4	Ethylbenzene	ND	0.294	--	ND	1.28	--	U
179601-23-1	p/m-Xylene	ND	0.588	--	ND	2.55	--	U
75-25-2	Bromoform	ND	0.294	--	ND	3.04	--	U
100-42-5	Styrene	ND	0.294	--	ND	1.25	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	**Lab Number**	: L2464510
Project Name	: NEST	**Project Number**	:
Lab ID	: L2464510-03D	**Date Collected**	: 11/05/24 12:45
Client ID	: VP-2	**Date Received**	: 11/05/24
Sample Location	: 333 1ST STREET	**Date Analyzed**	: 11/09/24 23:21
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1.471
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1931594	**Instrument ID**	: AIRLAB19
Sample Amount	: 170 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.294	--	ND	2.02	--	U
95-47-6	o-Xylene	ND	0.294	--	ND	1.28	--	U
622-96-8	4-Ethyltoluene	ND	0.294	--	ND	1.45	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.294	--	ND	1.45	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.294	--	ND	1.45	--	U
100-44-7	Benzyl chloride	ND	0.294	--	ND	1.52	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.294	--	ND	1.77	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.294	--	ND	1.77	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.294	--	ND	1.77	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.294	--	ND	2.18	--	U
91-20-3	Naphthalene	ND	0.294	--	ND	1.54	--	U
87-68-3	Hexachlorobutadiene	ND	0.294	--	ND	3.14	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	Lab Number	: L2464510
Project Name	: NEST	Project Number	:
Lab ID	: L2464510-04	Date Collected	: 11/05/24 12:45
Client ID	: VP-4	Date Received	: 11/05/24
Sample Location	: 333 1ST STREET	Date Analyzed	: 11/10/24 00:01
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1931595	Instrument ID	: AIRLAB19
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	3.05	0.200	--	15.1	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	1.92	0.200	--	4.25	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.24	1.00	--	2.95	2.38	--	
75-69-4	Trichlorofluoromethane	172	0.200	--	967	1.12	--	E
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	1.42	0.500	--	4.93	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	4.63	0.200	--	14.4	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.444	0.200	--	2.17	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	Lab Number	: L2464510
Project Name	: NEST	Project Number	:
Lab ID	: L2464510-04	Date Collected	: 11/05/24 12:45
Client ID	: VP-4	Date Received	: 11/05/24
Sample Location	: 333 1ST STREET	Date Analyzed	: 11/10/24 00:01
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1931595	Instrument ID	: AIRLAB19
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3				
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U	
110-54-3	n-Hexane	73.2	0.200	--	258	0.705	--		NJ
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U	
71-43-2	Benzene	11.6	0.200	--	37.1	0.639	--		
56-23-5	Carbon tetrachloride	0.403	0.200	--	2.54	1.26	--		
110-82-7	Cyclohexane	57.6	0.200	--	198	0.688	--		
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U	
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U	
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U	
79-01-6	Trichloroethene	1.22	0.200	--	6.56	1.07	--		
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U	
142-82-5	Heptane	9.56	0.200	--	39.2	0.820	--		
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U	
108-88-3	Toluene	3.72	0.200	--	14.0	0.754	--		
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U	
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U	
127-18-4	Tetrachloroethene	19.5	0.200	--	132	1.36	--		
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U	
100-41-4	Ethylbenzene	0.329	0.200	--	1.43	0.869	--		
179601-23-1	p/m-Xylene	1.06	0.400	--	4.60	1.74	--		
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U	
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U	

MKP 12/17/2024

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	**Lab Number**	: L2464510
Project Name	: NEST	**Project Number**	:
Lab ID	: L2464510-04	**Date Collected**	: 11/05/24 12:45
Client ID	: VP-4	**Date Received**	: 11/05/24
Sample Location	: 333 1ST STREET	**Date Analyzed**	: 11/10/24 00:01
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1931595	**Instrument ID**	: AIRLAB19
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.446	0.200	--	1.94	0.869	--	
622-96-8	4-Ethyltoluene	0.340	0.200	--	1.67	0.983	--	
108-67-8	1,3,5-Trimethylbenzene	0.495	0.200	--	2.43	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	0.480	0.200	--	2.36	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	1.53	0.200	--	16.3	2.13	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: BE3	**Lab Number**	: L2464510
Project Name	: NEST	**Project Number**	:
Lab ID	: L2464510-04D	**Date Collected**	: 11/05/24 12:45
Client ID	: VP-4	**Date Received**	: 11/05/24
Sample Location	: 333 1ST STREET	**Date Analyzed**	: 11/10/24 08:10
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 5
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1931604	**Instrument ID**	: AIRLAB19
Sample Amount	: 50.0 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-69-4	Trichlorofluoromethane	242	1.00	--	1360	5.62	--	

Appendix B

Laboratory QC Documentation

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\11\1109T\
Data File : r1931592.D
Acq On : 9 Nov 2024 10:01 PM
Operator : AIRLAB19:KJD
Sample : L2464510-01,3,250,250
Misc : WG1995315,ICAL21665
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 10 07:45:31 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\11\1109T\TFS19_241102.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 04 14:27:25 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\11\1109T\r1931582.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.708	49	405103	10.000	ppbV	0.00
Standard Area = 364842			Recovery = 111.04%			
43) 1,4-difluorobenzene	10.843	114	1141397	10.000	ppbV	0.01
Standard Area = 1088912			Recovery = 104.82%			
67) chlorobenzene-D5	15.500	54	208559	10.000	ppbV	0.00
Standard Area = 185259			Recovery = 112.58%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.028	85	27993	0.520	ppbV	99
6) chloromethane	4.172	50	1961	0.088	ppbV	95
7) Freon-114	0.000		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.496	54	2089	0.074	ppbV #	33
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.042	31	15121	0.550	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.507	43	83641	1.737	ppbV #	93
21) trichlorofluoromethane	5.673	101	881658	14.624	ppbV	99
22) isopropyl alcohol	5.793	45	69674	1.284	ppbV #	96
26) 1,1-dichloroethene	0.000		0	N.D.	d	
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	6.446	49	7905	0.246	ppbV	97
29) 3-chloropropene	6.560		0	N.D.		
30) carbon disulfide	6.728	76	28039	0.291	ppbV #	76
31) Freon 113	6.722	101	3168	0.050	ppbV #	85
32) trans-1,2-dichloroethene	7.425	61	7555	0.130	ppbV	97
33) 1,1-dichloroethane	0.000		0	N.D.	d	
34) MTBE	0.000		0	N.D.	d	
36) 2-butanone	8.067	43	16269	0.228	ppbV #	98
37) cis-1,2-dichloroethene	8.533	61	8929	0.162	ppbV	96
38) Ethyl Acetate	0.000		0	N.D.	d	
39) chloroform	8.858	83	86653	1.639	ppbV	97
40) Tetrahydrofuran	9.292	42	7954	0.166	ppbV	98
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	8.775	57	16589	0.293	ppbV #	2

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\11\1109T\
Data File : r1931595.D
Acq On : 10 Nov 2024 12:01 AM
Operator : AIRLAB19:KJD
Sample : L2464510-04,3,250,250
Misc : WG1995315,ICAL21665
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 10 07:47:08 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\11\1109T\TFS19_241102.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 04 14:27:25 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\11\1109T\r1931582.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	8.717	49	406123	10.000	ppbV		0.02
Standard Area = 364842			Recovery = 111.31%				
43) 1,4-difluorobenzene	10.843	114	1133266	10.000	ppbV		0.01
Standard Area = 1088912			Recovery = 104.07%				
67) chlorobenzene-D5	15.500	54	203546	10.000	ppbV		0.00
Standard Area = 185259			Recovery = 109.87%				
System Monitoring Compounds							
Target Compounds							Qvalue
5) dichlorodifluoromethane	4.034	85	164472	3.049	ppbV		98
6) chloromethane	4.178	50	3485	0.157	ppbV		94
7) Freon-114	4.274		0	N.D.			
9) vinyl chloride	0.000		0	N.D.	d		
10) 1,3-butadiene	4.508	54	54177	1.924	ppbV		100
13) bromomethane	0.000		0	N.D.			
14) chloroethane	0.000		0	N.D.			
15) ethanol	5.042	31	25326	0.920	ppbV	#	86
17) vinyl bromide	0.000		0	N.D.			
19) acetone	5.500	43	59961M6	1.242	ppbV		
21) trichlorofluoromethane	5.680	101	10376560	171.684	ppbV		99
22) isopropyl alcohol	0.000		0	N.D.	d		
26) 1,1-dichloroethene	0.000		0	N.D.	d		
27) tertiary butyl alcohol	0.000		0	N.D.	d		
28) methylene chloride	6.452	49	45689	1.420	ppbV		97
29) 3-chloropropene	0.000		0	N.D.	d		
30) carbon disulfide	6.740	76	446403	4.628	ppbV		98
31) Freon 113	6.734	101	3560	0.056	ppbV	#	94
32) trans-1,2-dichloroethene	0.000		0	N.D.	d		
33) 1,1-dichloroethane	0.000		0	N.D.	d		
34) MTBE	0.000		0	N.D.	d		
36) 2-butanone	0.000		0	N.D.			
37) cis-1,2-dichloroethene	0.000		0	N.D.			
38) Ethyl Acetate	0.000		0	N.D.	d		
39) chloroform	8.858	83	23541	0.444	ppbV		97
40) Tetrahydrofuran	9.292	42	2956	0.061	ppbV		95
42) 1,2-dichloroethane	9.667	62	6825	0.143	ppbV	#	1
44) hexane	8.783	57	4115782	73.235	ppbV	#	1

TFS19_241102.M Mon Nov 11 10:55:37 2024 Page: 1

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

333 1st Street
Niagara Falls, NY
Project # 48028637

SDG: **J228418-1**
4 soil samples

Prepared for:

BE3 Corp.
960 Busti Avenue
Suite 150-B
Buffalo, NY 14213
Attention: Paul Staub

October 2025

EDU *Environmental Data Usability 10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
BE3 SDG J228418: 333 1st Street

The data associated with this Sample Delivery Group (SDG) J228418-1, analyzed by Eurofins Buffalo, Buffalo, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/20/2025

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	333 1st Street Niagara Falls, NY Project #: 48028637
SAMPLING DATE:	April 03, 2025
SAMPLE TYPE:	4 soil samples
LABORATORY:	Eurofins Buffalo Buffalo, NY
SDG No.:	J228418-1

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 4 soil samples collected on April 03, 2025. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), and Metals.

All analyses were performed by Eurofins Buffalo, Buffalo, NY and analyzed as SDG J228418-1. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-3. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG J228418-1, four samples were analyzed and results were reported for 276 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have rejected/qualified and the corresponding QC reasons.

NOTE: 1) As noted by the laboratory, the soil samples were not collected following SW846 5035A protocol. This adds an element of uncertainty to the analytical results for volatile organic analytes (VOAs). Although not specifically indicated on the final data sheets with a "J" flag, the VOA analytical results should be considered estimated, but usable.

Table 6-1 8260 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
Drain 1 Drain 2 Drain 3 Drain 4	Chloroform	CRQL-U	Analyte detected in method blank	Data changed to non-detect
Drain 1 Drain 2 Drain 3 Drain 4	Acetone Methyl ethyl ketone	J detects UJ non-detects	CCV % D < QC limit	Data are estimated

Table 6-2 8270 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-3 Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
Drain 1	Ba, Cr, and Cu	J- detects UJ non-detects	MS/MSD < QC limit	Data may be biased low
Drain 1	Ni	J detects UJ non-detects	MS/MSD < QC limit but PDS rec ok	Data are estimated
Drain 1	Ba, Cr, Cu, Mn, and Zn	J detects	Srial dilution > 15 %	Data are estimated

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Staub
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo NY 14213

Generated 4/9/2025 9:53 AM

JOB DESCRIPTION

333 1st St. Niagara Falls, NY

JOB NUMBER

480-228418-1

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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716 504-9874

Job Narrative
480-228418-1

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 4/3/2025 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-742666 recovered above the upper control limit for 2-Butanone (MEK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: Drain 1 (480-228418-13), Drain 2 (480-228418-14), Drain 3 (480-228418-15) and Drain 4 (480-228418-16).

Method 8260C - TCLP: The continuing calibration verification (CCV) associated with batch 480-742831 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: D1 (480-228418-1), D2 (480-228418-2), D3 (480-228418-3), D4 (480-228418-4), D5 (480-228418-5), D6 (480-228418-6), D7 (480-228418-7), D8 (480-228418-8), D9 (480-228418-9), D10 (480-228418-10), D11 (480-228418-11) and D12 (480-228418-12).

Method 8260C - TCLP: The following samples were diluted due to the nature of the TCLP matrix: D1 (480-228418-1), D2 (480-228418-2), D3 (480-228418-3), D4 (480-228418-4), D5 (480-228418-5), D6 (480-228418-6), D7 (480-228418-7), D8 (480-228418-8), D9 (480-228418-9), D10 (480-228418-10), D11 (480-228418-11), D12 (480-228418-12) and (LB 480-742808/1-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
Method 8270D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-742676.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: Drain 1 (480-228418-13), Drain 2 (480-228418-14), Drain 3 (480-228418-15) and Drain 4 (480-228418-16). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: Drain 4 (480-228418-16). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: Drain 1 (480-228418-13). 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.

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.

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-228418-1	D1	Solid	04/03/25 08:00	04/03/25 13:45
480-228418-2	D2	Solid	04/03/25 09:30	04/03/25 13:45
480-228418-3	D3	Solid	04/03/25 10:00	04/03/25 13:45
480-228418-4	D4	Solid	04/03/25 10:10	04/03/25 13:45
480-228418-5	D5	Solid	04/03/25 10:20	04/03/25 13:45
480-228418-6	D6	Solid	04/03/25 10:30	04/03/25 13:45
480-228418-7	D7	Solid	04/03/25 10:40	04/03/25 13:45
480-228418-8	D8	Solid	04/03/25 10:50	04/03/25 13:45
480-228418-9	D9	Solid	04/03/25 11:00	04/03/25 13:45
480-228418-10	D10	Solid	04/03/25 11:10	04/03/25 13:45
480-228418-11	D11	Solid	04/03/25 11:20	04/03/25 13:45
480-228418-12	D12	Solid	04/03/25 11:30	04/03/25 13:45
480-228418-13	Drain 1	Solid	04/03/25 11:40	04/03/25 13:45
480-228418-14	Drain 2	Solid	04/03/25 11:50	04/03/25 13:45
480-228418-15	Drain 3	Solid	04/03/25 12:00	04/03/25 13:45
480-228418-16	Drain 4	Solid	04/03/25 12:10	04/03/25 13:45

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: Mr. Paul Staub	Sampler: Paul Staub	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-204074-41661.1
Company: Brydges Engineering in Environment & Energy DPC	Phone: 716-249-6880	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Address: 960 Busti Ave Suite B-150	PWSID:			Job #:
City: Buffalo	Due Date Requested:			
State, Zip: NY, 14213	TAT Requested (days): RUSH. Fastest Available.			
Phone: 716-869-1564(Tel)	Compliance Project: Δ Yes Δ No			
Email: pstaub@be3corp.com	PO #: Purchase Order not required			
Project Name: 333 1st St. Niagara Falls, NY	WO #:			
Site: The NEST	Project #: 48028637			
	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
A - HCL

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)	6010D, 7470A, 8270D TCLP	8260C - TCLP Volatiles	6010D, 7471B, 8270D Part 375	8260C - Part 375 VOCs (LL)	8260C - TCL VOCs + CP-51 List	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N	A		
D1	4/3/25	8:00 Am	C	Solid			X	X					
D2		9:30 Am		Solid			X	X					
D3		10:00 Am		Solid			X	X					
D4		10:10		Solid			X	X					
D5		10:20		Solid			X	X					
D6		10:30		Solid			X	X					
D7		10:40		Solid			X	X					
D8		10:50		Solid			X	X					
D9		11:00		Solid			X	X					
D10		11:10		Solid			X	X					
D11		11:20		Solid			X	X					

480-228418 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)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Paul Staub	Date/Time: 4/3/25 1:45 PM	Company BE3	Received by:		Date/Time: 4/3/25 1345	Company TAB	
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: 4.5 TCEIR #5C

Ver: 10/10/2024

4/9/2025 9:53:48 AM

Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-204074-41661.2
Client Contact: Mr. Paul Staub	Phone:	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Brydges Engineering in Environment & Energy DPC	PWSID:			Job #:
Address: 960 Busti Ave Suite B-150	Due Date Requested:			
City: Buffalo	TAT Requested (days): ASAP, RUSH			
State, Zip: NY, 14213	Compliance Project: Δ Yes Δ No			
Phone: 716-869-1564(Tel)	PO #: Purchase Order not required			
Email: pstaub@be3corp.com	WO #:			
Project Name: 333 1st St. Niagara Falls, NY	Project #: 48028637			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None; A - HCL

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)	6010D, 7470A, 8270D	8260C - TCLP Volatiles	6010D, 7471B, 8270D	8260C - Part 375 VOCs (LL)	8260C - TCL VOCs + CP-51 List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	A		
D 12	4/3	11:30	C	Solid			X	X					Drain 3, 4 had wrong Analyses on Label. Should be Part 375 metals, Svocs, mercury. Right on COC
Drain 1		11:40		Solid					X	X			
Drain 2		11:50		Solid					X	X			
Drain 3		12:00		Solid					X	X			
Drain 4		12:10		Solid					X	X			
				Water									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Paul Staub	4/3	BE3	Cindy Marie	4/3/25 1345	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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

4/9/2025 9:53:48 AM

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-228418-1
Project/Site: 333 1st St. Niagara Falls, NY

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
6010D	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1311	TCLP Extraction	SW846	EET BUF
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
7470A	Preparation, Mercury	SW846	EET BUF
7471B	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

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 1 | Lab Sample ID: 480-228418-13

Matrix: Solid | Lab File ID: M17507.D

Analysis Method: 8260C | Date Collected: 04/03/2025 11:40

Sample wt/vol: 5(g) | Date Analyzed: 04/03/2025 23:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 7.7 % Solids: 92.3 | Level: (low/med) Low

Analysis Batch No.: 742666 | Units: ug/Kg

Preparation Batch No.: 742665 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	ND	vs	5.4	0.39	
75-34-3	1,1-Dichloroethane	ND	vs	5.4	0.66	
75-35-4	1,1-Dichloroethene	ND	vs	5.4	0.66	
95-63-6	Trimethylbenzene, 1,2,4-	ND	vs	5.4	1.0	
95-50-1	1,2-Dichlorobenzene	ND	vs	5.4	0.42	
107-06-2	1,2-Dichloroethane	ND	vs	5.4	0.27	
108-67-8	Trimethylbenzene, 1,3,5-	ND	vs	5.4	0.35	
541-73-1	1,3-Dichlorobenzene	ND	vs	5.4	0.28	
106-46-7	1,4-Dichlorobenzene	ND	vs	5.4	0.76	
123-91-1	1,4-Dioxane	ND	vs	110	24	
78-93-3	Methyl Ethyl Ketone	ND	vs	27	2.0	UJ
67-64-1	Acetone	ND	vs	27	4.6	UJ
71-43-2	Benzene	ND	vs	5.4	0.27	
56-23-5	Carbon tetrachloride	ND	vs	5.4	0.52	
108-90-7	Chlorobenzene	ND	vs	5.4	0.71	
67-66-3	Chloroform	5.4 UJ 0.67 ~~J B~~	vs	5.4	0.33	UJ
156-59-2	1,2-Dichloroethene, cis-	ND	vs	5.4	0.69	
100-41-4	Ethylbenzene	ND	vs	5.4	0.37	
1634-04-4	Methyl tert-butyl ether	ND	vs	5.4	0.53	
75-09-2	Methylene Chloride	ND	vs	5.4	2.5	
104-51-8	Butylbenzene	ND	vs	5.4	0.47	
103-65-1	Propylbenzene, n-	ND	vs	5.4	0.43	
135-98-8	sec-Butylbenzene	ND	vs	5.4	0.47	
127-18-4	Tetrachloroethene	ND	vs	5.4	0.73	
108-88-3	Toluene	ND	vs	5.4	0.41	
156-60-5	1,2-Dichloroethene, trans-	ND	vs	5.4	0.56	
79-01-6	Trichloroethene	ND	vs	5.4	1.2	
75-01-4	Vinyl chloride	ND	vs	5.4	0.66	
1330-20-7	Xylene (mixed)	ND	vs	11	0.91	
98-06-6	tert-Butylbenzene	ND	vs	5.4	0.56	

MKP 10/20/2025

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 1 | Lab Sample ID: 480-228418-13

Matrix: Solid | Lab File ID: M17507.D

Analysis Method: 8260C | Date Collected: 04/03/2025 11:40

Sample wt/vol: 5(g) | Date Analyzed: 04/03/2025 23:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 7.7 % Solids: 92.3 | Level: (low/med) Low

Analysis Batch No.: 742666 | Units: ug/Kg

Preparation Batch No.: 742665 | Instrument ID: HP5977M

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-126
460-00-4	4-Bromofluorobenzene (Surr)	89		72-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
1868-53-7	Dibromofluoromethane (Surr)	102		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 2 | Lab Sample ID: 480-228418-14

Matrix: Solid | Lab File ID: M17508.D

Analysis Method: 8260C | Date Collected: 04/03/2025 11:50

Sample wt/vol: 5.15(g) | Date Analyzed: 04/03/2025 23:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 9.5 % Solids: 90.5 | Level: (low/med) Low

Analysis Batch No.: 742666 | Units: ug/Kg

Preparation Batch No.: 742665 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	ND	vs	5.4	0.39	
75-34-3	1,1-Dichloroethane	ND	vs	5.4	0.65	
75-35-4	1,1-Dichloroethene	ND	vs	5.4	0.66	
95-63-6	Trimethylbenzene, 1,2,4-	ND	vs	5.4	1.0	
95-50-1	1,2-Dichlorobenzene	ND	vs	5.4	0.42	
107-06-2	1,2-Dichloroethane	ND	vs	5.4	0.27	
108-67-8	Trimethylbenzene, 1,3,5-	ND	vs	5.4	0.35	
541-73-1	1,3-Dichlorobenzene	ND	vs	5.4	0.28	
106-46-7	1,4-Dichlorobenzene	ND	vs	5.4	0.75	
123-91-1	1,4-Dioxane	ND	vs	110	23	
78-93-3	Methyl Ethyl Ketone	ND	vs	27	2.0	UJ
67-64-1	Acetone	ND	vs	27	4.5	UJ
71-43-2	Benzene	ND	vs	5.4	0.26	
56-23-5	Carbon tetrachloride	ND	vs	5.4	0.52	
108-90-7	Chlorobenzene	ND	vs	5.4	0.71	
67-66-3	Chloroform	5.4 UJ ~~0.64 J B~~	vs	5.4	0.33	UJ
156-59-2	1,2-Dichloroethene, cis-	ND	vs	5.4	0.69	
100-41-4	Ethylbenzene	ND	vs	5.4	0.37	
1634-04-4	Methyl tert-butyl ether	ND	vs	5.4	0.53	
75-09-2	Methylene Chloride	ND	vs	5.4	2.5	
104-51-8	Butylbenzene	ND	vs	5.4	0.47	
103-65-1	Propylbenzene, n-	ND	vs	5.4	0.43	
135-98-8	sec-Butylbenzene	ND	vs	5.4	0.47	
127-18-4	Tetrachloroethene	ND	vs	5.4	0.72	
108-88-3	Toluene	ND	vs	5.4	0.41	
156-60-5	1,2-Dichloroethene, trans-	ND	vs	5.4	0.55	
79-01-6	Trichloroethene	ND	vs	5.4	1.2	
75-01-4	Vinyl chloride	ND	vs	5.4	0.65	
1330-20-7	Xylene (mixed)	ND	vs	11	0.90	
98-06-6	tert-Butylbenzene	ND	vs	5.4	0.56	

MKP 10/20/2025

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 2 | Lab Sample ID: 480-228418-14

Matrix: Solid | Lab File ID: M17508.D

Analysis Method: 8260C | Date Collected: 04/03/2025 11:50

Sample wt/vol: 5.15(g) | Date Analyzed: 04/03/2025 23:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 9.5 % Solids: 90.5 | Level: (low/med) Low

Analysis Batch No.: 742666 | Units: ug/Kg

Preparation Batch No.: 742665 | Instrument ID: HP5977M

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		64-126
460-00-4	4-Bromofluorobenzene (Surr)	89		72-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
1868-53-7	Dibromofluoromethane (Surr)	102		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 3 | Lab Sample ID: 480-228418-15

Matrix: Solid | Lab File ID: M17509.D

Analysis Method: 8260C | Date Collected: 04/03/2025 12:00

Sample wt/vol: 5.08(g) | Date Analyzed: 04/03/2025 23:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.5 % Solids: 91.5 | Level: (low/med) Low

Analysis Batch No.: 742666 | Units: ug/Kg

Preparation Batch No.: 742665 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	ND	vs	5.4	0.39	
75-34-3	1,1-Dichloroethane	ND	vs	5.4	0.66	
75-35-4	1,1-Dichloroethene	ND	vs	5.4	0.66	
95-63-6	Trimethylbenzene, 1,2,4-	ND	vs	5.4	1.0	
95-50-1	1,2-Dichlorobenzene	ND	vs	5.4	0.42	
107-06-2	1,2-Dichloroethane	ND	vs	5.4	0.27	
108-67-8	Trimethylbenzene, 1,3,5-	ND	vs	5.4	0.35	
541-73-1	1,3-Dichlorobenzene	ND	vs	5.4	0.28	
106-46-7	1,4-Dichlorobenzene	ND	vs	5.4	0.75	
123-91-1	1,4-Dioxane	ND	vs	110	23	
78-93-3	Methyl Ethyl Ketone	ND	vs	27	2.0	
67-64-1	Acetone	ND	vs	27	4.5	UJ
71-43-2	Benzene	ND	vs	5.4	0.26	UJ
56-23-5	Carbon tetrachloride	ND	vs	5.4	0.52	
108-90-7	Chlorobenzene	ND	vs	5.4	0.71	
67-66-3	Chloroform	5.4 UJ 0.63 ~~J B~~	vs	5.4	0.33	UJ
156-59-2	1,2-Dichloroethene, cis-	ND	vs	5.4	0.69	
100-41-4	Ethylbenzene	ND	vs	5.4	0.37	
1634-04-4	Methyl tert-butyl ether	ND	vs	5.4	0.53	
75-09-2	Methylene Chloride	ND	vs	5.4	2.5	
104-51-8	Butylbenzene	ND	vs	5.4	0.47	
103-65-1	Propylbenzene, n-	ND	vs	5.4	0.43	
135-98-8	sec-Butylbenzene	ND	vs	5.4	0.47	
127-18-4	Tetrachloroethene	ND	vs	5.4	0.72	
108-88-3	Toluene	ND	vs	5.4	0.41	
156-60-5	1,2-Dichloroethene, trans-	ND	vs	5.4	0.56	
79-01-6	Trichloroethene	ND	vs	5.4	1.2	
75-01-4	Vinyl chloride	ND	vs	5.4	0.66	
1330-20-7	Xylene (mixed)	ND	vs	11	0.90	
98-06-6	tert-Butylbenzene	ND	vs	5.4	0.56	

MKP 10/20/2025

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 3 | Lab Sample ID: 480-228418-15

Matrix: Solid | Lab File ID: M17509.D

Analysis Method: 8260C | Date Collected: 04/03/2025 12:00

Sample wt/vol: 5.08(g) | Date Analyzed: 04/03/2025 23:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.5 % Solids: 91.5 | Level: (low/med) Low

Analysis Batch No.: 742666 | Units: ug/Kg

Preparation Batch No.: 742665 | Instrument ID: HP5977M

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		64-126
460-00-4	4-Bromofluorobenzene (Surr)	88		72-126
2037-26-5	Toluene-d8 (Surr)	97		71-125
1868-53-7	Dibromofluoromethane (Surr)	101		60-140

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 4 | Lab Sample ID: 480-228418-16

Matrix: Solid | Lab File ID: M17510.D

Analysis Method: 8260C | Date Collected: 04/03/2025 12:10

Sample wt/vol: 5.08(g) | Date Analyzed: 04/04/2025 00:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.0 % Solids: 92.0 | Level: (low/med) Low

Analysis Batch No.: 742666 | Units: ug/Kg

Preparation Batch No.: 742665 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	ND	vs	5.4	0.39	
75-34-3	1,1-Dichloroethane	ND	vs	5.4	0.65	
75-35-4	1,1-Dichloroethene	ND	vs	5.4	0.65	
95-63-6	Trimethylbenzene, 1,2,4-	ND	vs	5.4	1.0	
95-50-1	1,2-Dichlorobenzene	ND	vs	5.4	0.42	
107-06-2	1,2-Dichloroethane	ND	vs	5.4	0.27	
108-67-8	Trimethylbenzene, 1,3,5-	ND	vs	5.4	0.34	
541-73-1	1,3-Dichlorobenzene	ND	vs	5.4	0.28	
106-46-7	1,4-Dichlorobenzene	ND	vs	5.4	0.75	
123-91-1	1,4-Dioxane	ND	vs	110	23	
78-93-3	Methyl Ethyl Ketone	ND	vs	27	2.0	UJ
67-64-1	Acetone	ND	vs	27	4.5	UJ
71-43-2	Benzene	ND	vs	5.4	0.26	
56-23-5	Carbon tetrachloride	ND	vs	5.4	0.52	
108-90-7	Chlorobenzene	ND	vs	5.4	0.71	
67-66-3	Chloroform	5.4 UJ ~~0.67~~	J B vs	5.4	0.33	UJ
156-59-2	1,2-Dichloroethene, cis-	ND	vs	5.4	0.68	
100-41-4	Ethylbenzene	ND	vs	5.4	0.37	
1634-04-4	Methyl tert-butyl ether	ND	vs	5.4	0.53	
75-09-2	Methylene Chloride	ND	vs	5.4	2.5	
104-51-8	Butylbenzene	ND	vs	5.4	0.47	
103-65-1	Propylbenzene, n-	ND	vs	5.4	0.43	
135-98-8	sec-Butylbenzene	ND	vs	5.4	0.47	
127-18-4	Tetrachloroethene	ND	vs	5.4	0.72	
108-88-3	Toluene	ND	vs	5.4	0.40	
156-60-5	1,2-Dichloroethene, trans-	ND	vs	5.4	0.55	
79-01-6	Trichloroethene	ND	vs	5.4	1.2	
75-01-4	Vinyl chloride	ND	vs	5.4	0.65	
1330-20-7	Xylene (mixed)	ND	vs	11	0.90	
98-06-6	tert-Butylbenzene	ND	vs	5.4	0.56	

MKP 10/20/2025

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 4 | Lab Sample ID: 480-228418-16

Matrix: Solid | Lab File ID: M17510.D

Analysis Method: 8260C | Date Collected: 04/03/2025 12:10

Sample wt/vol: 5.08(g) | Date Analyzed: 04/04/2025 00:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 8.0 % Solids: 92.0 | Level: (low/med) Low

Analysis Batch No.: 742666 | Units: ug/Kg

Preparation Batch No.: 742665 | Instrument ID: HP5977M

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		64-126
460-00-4	4-Bromofluorobenzene (Surr)	89		72-126
2037-26-5	Toluene-d8 (Surr)	99		71-125
1868-53-7	Dibromofluoromethane (Surr)	100		60-140

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

No data validation qualifiers were added

MKP 10/20/2025

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 1 | Lab Sample ID: 480-228418-13

Matrix: Solid | Lab File ID: X00000035740.d

Analysis Method: 8270D | Date Collected: 04/03/2025 11:40

Extract. Method: 3550C | Date Extracted: 04/04/2025 06:55

Sample wt/vol: 30.07(g) | Date Analyzed: 04/07/2025 16:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 7.7 % Solids: 92.3 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 742846 | Units: ug/Kg

Preparation Batch No.: 742676 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		3700	540
208-96-8	Acenaphthylene	ND		3700	480
120-12-7	Anthracene	ND		3700	910
56-55-3	Benzo(a)anthracene	ND		3700	370
50-32-8	Benzo(a)pyrene	ND		3700	540
205-99-2	Benzo(b)fluoranthene	ND		3700	580
191-24-2	Benzo(g,h,i)perylene	ND		3700	390
207-08-9	Benzo(k)fluoranthene	ND		3700	480
218-01-9	Chrysene	ND		3700	820
53-70-3	Dibenz(a,h)anthracene	ND		3700	650
132-64-9	Dibenzofuran	ND		3700	430
206-44-0	Fluoranthene	550	J	3700	390
86-73-7	Fluorene	ND		3700	430
118-74-1	Hexachlorobenzene	ND		3700	500
193-39-5	Indeno(1,2,3-cd)pyrene	ND		3700	450
108-39-4	m-Cresol	ND		7100	560
91-20-3	Naphthalene	ND		3700	480
123-91-1	1,4-Dioxane	ND		2200	1200
95-48-7	o-Cresol	ND		3700	430
106-44-5	p-Cresol	ND		7100	430
87-86-5	Pentachlorophenol	ND		7100	3700
85-01-8	Phenanthrene	ND		3700	540
108-95-2	Phenol	ND		3700	560
129-00-0	Pyrene	430	J	3700	430

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 1 | Lab Sample ID: 480-228418-13

Matrix: Solid | Lab File ID: X00000035740.d

Analysis Method: 8270D | Date Collected: 04/03/2025 11:40

Extract. Method: 3550C | Date Extracted: 04/04/2025 06:55

Sample wt/vol: 30.07(g) | Date Analyzed: 04/07/2025 16:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 7.7 % Solids: 92.3 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 742846 | Units: ug/Kg

Preparation Batch No.: 742676 | Instrument ID: HP5973X

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	103		26-143
321-60-8	2-Fluorobiphenyl	91		50-121
367-12-4	2-Fluorophenol	70		36-120
4165-60-0	Nitrobenzene-d5	67		40-121
4165-62-2	Phenol-d5	97		41-120
1718-51-0	p-Terphenyl-d14	93		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 2 | Lab Sample ID: 480-228418-14

Matrix: Solid | Lab File ID: X00000035741.d

Analysis Method: 8270D | Date Collected: 04/03/2025 11:50

Extract. Method: 3550C | Date Extracted: 04/04/2025 06:55

Sample wt/vol: 30.14(g) | Date Analyzed: 04/07/2025 17:23

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 9.5 % Solids: 90.5 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 742846 | Units: ug/Kg

Preparation Batch No.: 742676 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1900	270
208-96-8	Acenaphthylene	ND		1900	240
120-12-7	Anthracene	ND		1900	460
56-55-3	Benzo(a)anthracene	ND		1900	190
50-32-8	Benzo(a)pyrene	400	J	1900	270
205-99-2	Benzo(b)fluoranthene	540	J	1900	300
191-24-2	Benzo(g,h,i)perylene	360	J	1900	200
207-08-9	Benzo(k)fluoranthene	300	J	1900	240
218-01-9	Chrysene	ND		1900	420
53-70-3	Dibenz(a,h)anthracene	ND		1900	330
132-64-9	Dibenzofuran	ND		1900	220
206-44-0	Fluoranthene	860	J	1900	200
86-73-7	Fluorene	ND		1900	220
118-74-1	Hexachlorobenzene	ND		1900	250
193-39-5	Indeno(1,2,3-cd)pyrene	340	J	1900	230
108-39-4	m-Cresol	ND		3600	290
91-20-3	Naphthalene	ND		1900	240
123-91-1	1,4-Dioxane	ND		1100	600
95-48-7	o-Cresol	ND		1900	220
106-44-5	p-Cresol	ND		3600	220
87-86-5	Pentachlorophenol	ND		3600	1900
85-01-8	Phenanthrene	340	J	1900	270
108-95-2	Phenol	ND		1900	290
129-00-0	Pyrene	650	J	1900	220

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 2 | Lab Sample ID: 480-228418-14

Matrix: Solid | Lab File ID: X00000035741.d

Analysis Method: 8270D | Date Collected: 04/03/2025 11:50

Extract. Method: 3550C | Date Extracted: 04/04/2025 06:55

Sample wt/vol: 30.14(g) | Date Analyzed: 04/07/2025 17:23

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 9.5 % Solids: 90.5 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 742846 | Units: ug/Kg

Preparation Batch No.: 742676 | Instrument ID: HP5973X

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	70		26-143
321-60-8	2-Fluorobiphenyl	76		50-121
367-12-4	2-Fluorophenol	63		36-120
4165-60-0	Nitrobenzene-d5	74		40-121
4165-62-2	Phenol-d5	72		41-120
1718-51-0	p-Terphenyl-d14	82		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 3 | Lab Sample ID: 480-228418-15

Matrix: Solid | Lab File ID: X00000035742.d

Analysis Method: 8270D | Date Collected: 04/03/2025 12:00

Extract. Method: 3550C | Date Extracted: 04/04/2025 06:55

Sample wt/vol: 30.68(g) | Date Analyzed: 04/07/2025 17:48

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.5 % Solids: 91.5 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 742846 | Units: ug/Kg

Preparation Batch No.: 742676 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		910	130
208-96-8	Acenaphthylene	ND		910	120
120-12-7	Anthracene	ND		910	220
56-55-3	Benzo(a)anthracene	260	J	910	91
50-32-8	Benzo(a)pyrene	300	J	910	130
205-99-2	Benzo(b)fluoranthene	290	J	910	140
191-24-2	Benzo(g,h,i)perylene	220	J	910	96
207-08-9	Benzo(k)fluoranthene	270	J	910	120
218-01-9	Chrysene	280	J	910	200
53-70-3	Dibenz(a,h)anthracene	ND		910	160
132-64-9	Dibenzofuran	ND		910	110
206-44-0	Fluoranthene	540	J	910	96
86-73-7	Fluorene	ND		910	110
118-74-1	Hexachlorobenzene	ND		910	120
193-39-5	Indeno(1,2,3-cd)pyrene	180	J	910	110
108-39-4	m-Cresol	ND		1800	140
91-20-3	Naphthalene	ND		910	120
123-91-1	1,4-Dioxane	ND		530	290
95-48-7	o-Cresol	ND		910	110
106-44-5	p-Cresol	ND		1800	110
87-86-5	Pentachlorophenol	ND		1800	910
85-01-8	Phenanthrene	230	J	910	130
108-95-2	Phenol	ND		910	140
129-00-0	Pyrene	430	J	910	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 3 | Lab Sample ID: 480-228418-15

Matrix: Solid | Lab File ID: X00000035742.d

Analysis Method: 8270D | Date Collected: 04/03/2025 12:00

Extract. Method: 3550C | Date Extracted: 04/04/2025 06:55

Sample wt/vol: 30.68(g) | Date Analyzed: 04/07/2025 17:48

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.5 % Solids: 91.5 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 742846 | Units: ug/Kg

Preparation Batch No.: 742676 | Instrument ID: HP5973X

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	89		26-143
321-60-8	2-Fluorobiphenyl	84		50-121
367-12-4	2-Fluorophenol	72		36-120
4165-60-0	Nitrobenzene-d5	80		40-121
4165-62-2	Phenol-d5	83		41-120
1718-51-0	p-Terphenyl-d14	88		46-143

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 4 | Lab Sample ID: 480-228418-16

Matrix: Solid | Lab File ID: X00000035743.d

Analysis Method: 8270D | Date Collected: 04/03/2025 12:10

Extract. Method: 3550C | Date Extracted: 04/04/2025 06:55

Sample wt/vol: 30.48(g) | Date Analyzed: 04/07/2025 18:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.0 % Solids: 92.0 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 742846 | Units: ug/Kg

Preparation Batch No.: 742676 | Instrument ID: HP5973X

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		9100	1300
208-96-8	Acenaphthylene	ND		9100	1200
120-12-7	Anthracene	ND		9100	2200
56-55-3	Benzo(a)anthracene	ND		9100	910
50-32-8	Benzo(a)pyrene	ND		9100	1300
205-99-2	Benzo(b)fluoranthene	ND		9100	1400
191-24-2	Benzo(g,h,i)perylene	ND		9100	960
207-08-9	Benzo(k)fluoranthene	ND		9100	1200
218-01-9	Chrysene	ND		9100	2000
53-70-3	Dibenz(a,h)anthracene	ND		9100	1600
132-64-9	Dibenzofuran	ND		9100	1100
206-44-0	Fluoranthene	ND		9100	960
86-73-7	Fluorene	ND		9100	1100
118-74-1	Hexachlorobenzene	ND		9100	1200
193-39-5	Indeno(1,2,3-cd)pyrene	ND		9100	1100
108-39-4	m-Cresol	ND		18000	1400
91-20-3	Naphthalene	ND		9100	1200
123-91-1	1,4-Dioxane	ND		5400	2900
95-48-7	o-Cresol	ND		9100	1100
106-44-5	p-Cresol	ND		18000	1100
87-86-5	Pentachlorophenol	ND		18000	9100
85-01-8	Phenanthrene	ND		9100	1300
108-95-2	Phenol	ND		9100	1400
129-00-0	Pyrene	ND		9100	1100

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: Drain 4 | Lab Sample ID: 480-228418-16

Matrix: Solid | Lab File ID: X00000035743.d

Analysis Method: 8270D | Date Collected: 04/03/2025 12:10

Extract. Method: 3550C | Date Extracted: 04/04/2025 06:55

Sample wt/vol: 30.48(g) | Date Analyzed: 04/07/2025 18:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: 8.0 % Solids: 92.0 | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 742846 | Units: ug/Kg

Preparation Batch No.: 742676 | Instrument ID: HP5973X

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	169	S1+	26-143
321-60-8	2-Fluorobiphenyl	143	S1+	50-121
367-12-4	2-Fluorophenol	0	S1-	36-120
4165-60-0	Nitrobenzene-d5	105		40-121
4165-62-2	Phenol-d5	144	S1+	41-120
1718-51-0	p-Terphenyl-d14	121		46-143

METALS

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-228418-1

SDG No.:

Project: 333 1st St. Niagara Falls, NY

Client Sample ID	Lab Sample ID
D1	480-228418-1
D2	480-228418-2
D3	480-228418-3
D4	480-228418-4
D5	480-228418-5
D6	480-228418-6
D7	480-228418-7
D8	480-228418-8
D9	480-228418-9
D10	480-228418-10
D11	480-228418-11
D12	480-228418-12
Drain 1	480-228418-13
Drain 2	480-228418-14
Drain 3	480-228418-15
Drain 4	480-228418-16

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: Drain 1
Lab Sample ID: 480-228418-13
Lab Name: Eurofins Buffalo
Job No.: 480-228418-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/03/2025 11:40
Reporting Basis: DRY
Date Received: 04/03/2025 13:45
Preparation Batch Number: 742685
Instrument ID: ICAP3
% Solids: 92.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	ND	3.4	1.1	mg/Kg			5	6010D	
7440-38-2	Arsenic	13.6	11.5	5.0	mg/Kg			5	6010D	
7440-39-3	Barium	227	2.9	0.80	mg/Kg		F1	5	6010D	J-
7440-41-7	Beryllium	1.0	1.1	0.23	mg/Kg	J		5	6010D	
7440-43-9	Cadmium	4.7	1.1	0.40	mg/Kg			5	6010D	
7440-47-3	Chromium	46.9	2.9	2.1	mg/Kg		F1	5	6010D	J-
7440-50-8	Copper	54.9	5.7	3.3	mg/Kg		F1	5	6010D	J-
7439-96-5	Manganese	3180	5.7	1.6	mg/Kg			5	6010D	J
7440-02-0	Nickel	31.8	28.7	1.4	mg/Kg		F1	5	6010D	J
7439-92-1	Lead	552	5.7	2.6	mg/Kg		F2	5	6010D	
7782-49-2	Selenium	ND	22.9	4.6	mg/Kg			5	6010D	
7440-66-6	Zinc	1260	11.5	5.8	mg/Kg			5	6010D	J
7439-97-6	Mercury	0.12	0.022	0.0051	mg/Kg			1	7471B	

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1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: Drain 2
Lab Sample ID: 480-228418-14
Lab Name: Eurofins Buffalo
Job No.: 480-228418-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/03/2025 11:50
Reporting Basis: DRY
Date Received: 04/03/2025 13:45
Preparation Batch Number: 742685
Instrument ID: ICAP3
% Solids: 90.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	ND	0.65	0.22	mg/Kg			1	6010D
7440-38-2	Arsenic	4.5	2.2	0.96	mg/Kg			1	6010D
7440-39-3	Barium	59.8	0.54	0.15	mg/Kg			1	6010D
7440-41-7	Beryllium	0.31	0.22	0.044	mg/Kg			1	6010D
7440-43-9	Cadmium	1.2	0.22	0.076	mg/Kg			1	6010D
7440-47-3	Chromium	11.3	0.54	0.39	mg/Kg			1	6010D
7440-50-8	Copper	19.0	1.1	0.62	mg/Kg			1	6010D
7439-96-5	Manganese	471	1.1	0.31	mg/Kg			1	6010D
7440-02-0	Nickel	11.2	5.4	0.27	mg/Kg			1	6010D
7439-92-1	Lead	144	1.1	0.50	mg/Kg			1	6010D
7782-49-2	Selenium	0.88	4.4	0.87	mg/Kg	J		1	6010D
7440-66-6	Zinc	373	2.2	1.1	mg/Kg			1	6010D
7439-97-6	Mercury	0.13	0.023	0.0052	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: Drain 3
Lab Sample ID: 480-228418-15
Lab Name: Eurofins Buffalo
Job No.: 480-228418-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/03/2025 12:00
Reporting Basis: DRY
Date Received: 04/03/2025 13:45
Preparation Batch Number: 742685
Instrument ID: ICAP3
% Solids: 91.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	ND	0.68	0.23	mg/Kg			1	6010D
7440-38-2	Arsenic	3.1	2.3	1.0	mg/Kg			1	6010D
7440-39-3	Barium	59.2	0.57	0.16	mg/Kg			1	6010D
7440-41-7	Beryllium	0.33	0.23	0.045	mg/Kg			1	6010D
7440-43-9	Cadmium	0.81	0.23	0.079	mg/Kg			1	6010D
7440-47-3	Chromium	11.4	0.57	0.41	mg/Kg			1	6010D
7440-50-8	Copper	21.5	1.1	0.65	mg/Kg			1	6010D
7439-96-5	Manganese	546	1.1	0.32	mg/Kg			1	6010D
7440-02-0	Nickel	9.2	5.7	0.28	mg/Kg			1	6010D
7439-92-1	Lead	148	1.1	0.52	mg/Kg			1	6010D
7782-49-2	Selenium	ND	4.5	0.91	mg/Kg			1	6010D
7440-66-6	Zinc	267	2.3	1.2	mg/Kg			1	6010D
7439-97-6	Mercury	0.25	0.022	0.0051	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: Drain 4
Lab Sample ID: 480-228418-16
Lab Name: Eurofins Buffalo
Job No.: 480-228418-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/03/2025 12:10
Reporting Basis: DRY
Date Received: 04/03/2025 13:45
Preparation Batch Number: 742685
Instrument ID: ICAP3
% Solids: 92.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	ND	0.66	0.22	mg/Kg			1	6010D
7440-38-2	Arsenic	2.0	2.2	0.97	mg/Kg	J		1	6010D
7440-39-3	Barium	40.5	0.55	0.15	mg/Kg			1	6010D
7440-41-7	Beryllium	0.24	0.22	0.044	mg/Kg			1	6010D
7440-43-9	Cadmium	1.1	0.22	0.077	mg/Kg			1	6010D
7440-47-3	Chromium	15.0	0.55	0.40	mg/Kg			1	6010D
7440-50-8	Copper	12.6	1.1	0.63	mg/Kg			1	6010D
7439-96-5	Manganese	550	1.1	0.31	mg/Kg			1	6010D
7440-02-0	Nickel	8.9	5.5	0.28	mg/Kg			1	6010D
7439-92-1	Lead	113	1.1	0.51	mg/Kg			1	6010D
7782-49-2	Selenium	ND	4.4	0.89	mg/Kg			1	6010D
7440-66-6	Zinc	316	2.2	1.1	mg/Kg			1	6010D
7439-97-6	Mercury	0.069	0.022	0.0050	mg/Kg			1	7471B

GENERAL CHEMISTRY

No data validation qualifiers were added

MKP 10/20/2025

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-228418-1

SDG No.:

Project: 333 1st St. Niagara Falls, NY

Client Sample ID	Lab Sample ID
Drain 1	480-228418-13
Drain 2	480-228418-14
Drain 3	480-228418-15
Drain 4	480-228418-16

Comments:

General Chemistry Raw Data Report

Job ID: 480-228418-1

Batch: 742658 **Analyst Initials: JMM**

Method: Moisture **Instrument: No Equipment Used for this Test**

Lab Sample ID: 480-228418-A-13 **Analysis Date: Apr 03, 2025 15:09**

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	7.67295597484279	%
Percent Solids	None	1	92.3270440251572	%

Lab Sample ID: 480-228418-A-14 **Analysis Date: Apr 03, 2025 15:09**

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	9.5115681233933	%
Percent Solids	None	1	90.4884318766067	%

Lab Sample ID: 480-228418-A-15 **Analysis Date: Apr 03, 2025 15:09**

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	8.5489313835771	%
Percent Solids	None	1	91.4510686164229	%

Lab Sample ID: 480-228418-A-16 **Analysis Date: Apr 03, 2025 15:09**

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	8.0194410692588	%
Percent Solids	None	1	91.9805589307412	%

Appendix B

Laboratory QC Documentation

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-228418-1

SDG No.:

Lab Sample ID: CCVIS 480-742666/4 Calibration Date: 04/03/2025 19:49

Instrument ID: HP5977M Calib Start Date: 01/18/2025 11:38

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/18/2025 13:59

Lab File ID: M17499.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Ave	2.017	1.202	0.1000	29.8	50.0	-40.4	50.0	
Chloromethane	Ave	2.650	2.643	0.1000	49.9	50.0	-0.3	20.0	
Vinyl chloride	Ave	1.986	1.898	0.1000	47.8	50.0	-4.5	20.0	
Butadiene	Ave	2.154	2.239		52.0	50.0	3.9	20.0	
Bromomethane	Ave	1.089	0.9348	0.1000	42.9	50.0	-14.2	50.0	
Chloroethane	Ave	1.212	1.210	0.1000	49.9	50.0	-0.2	50.0	
Trichlorofluoromethane	Ave	2.044	2.035	0.1000	49.8	50.0	-0.4	20.0	
Dichlorofluoromethane	Ave	2.808	2.918		52.0	50.0	3.9	20.0	
Ethyl ether	Lin1		1.703		57.8	50.0	15.6	20.0	
Acrolein	Ave	0.1521	0.3037		499	250	99.7*	50.0	NT
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.341	1.414	0.1000	52.7	50.0	5.4	20.0	
1,1-Dichloroethene	Ave	1.187	1.205	0.1000	50.8	50.0	1.6	20.0	
Acetone	Ave	0.6157	0.7720	0.1000	313	250	25.4	50.0	
Iodomethane	Ave	2.246	2.141		47.7	50.0	-4.6	20.0	
Carbon disulfide	Ave	4.208	4.392	0.1000	52.2	50.0	4.4	20.0	
Allyl chloride	Ave	2.502	3.242		64.8	50.0	29.6*	20.0	NT
Methyl acetate	Ave	1.363	1.688	0.1000	124	100	23.8	50.0	
Methylene Chloride	Lin1		1.527	0.1000	52.1	50.0	4.2	20.0	
2-Methyl-2-propanol	Ave	0.2392	0.2294		480	500	-4.1	50.0	
Methyl tert-butyl ether	Ave	4.267	4.265	0.1000	50.0	50.0	-0.0	20.0	
1,2-Dichloroethene, trans-	Ave	1.365	1.416	0.1000	51.9	50.0	3.7	20.0	
Acrylonitrile	Ave	0.7205	0.8452		587	500	17.3	20.0	
Hexane	Ave	2.329	2.905		62.4	50.0	24.8*	20.0	NT
1,1-Dichloroethane	Ave	2.747	3.074	0.2000	56.0	50.0	11.9	20.0	
Vinyl acetate	Ave	2.733	3.289		120	100	20.4*	20.0	NT
2,2-Dichloropropane	Ave	1.544	1.577		51.1	50.0	2.2	20.0	
1,2-Dichloroethene, cis-	Ave	1.547	1.557	0.1000	50.3	50.0	0.6	20.0	
Methyl Ethyl Ketone	Ave	0.7544	0.9731	0.1000	322	250	29.0*	20.0	
Chlorobromomethane	Ave	0.7700	0.7390		48.0	50.0	-4.0	20.0	
Tetrahydrofuran	Ave	0.5334	0.6647		125	100	24.6*	20.0	NT
Chloroform	Ave	2.471	2.539	0.2000	51.4	50.0	2.8	20.0	
1,1,1-Trichloroethane	Ave	1.945	2.002	0.1000	51.5	50.0	2.9	20.0	
Cyclohexane	Ave	3.018	3.818	0.1000	63.3	50.0	26.5*	20.0	NT
Carbon tetrachloride	Ave	1.572	1.664	0.1000	52.9	50.0	5.9	20.0	
1,1-Dichloropropene	Ave	1.650	1.803		54.6	50.0	9.3	20.0	
Benzene	Ave	4.938	5.186	0.5000	52.5	50.0	5.0	20.0	
Isobutyl alcohol	Ave	0.0816	0.0955		1460	1250	17.0	50.0	
1,2-Dichloroethane	Ave	1.972	2.113	0.1000	53.6	50.0	7.2	20.0	
n-Heptane	Ave	2.090	2.887		69.1	50.0	38.1*	20.0	NT
Trichloroethene	Ave	1.261	1.294	0.2000	51.3	50.0	2.6	20.0	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-228418-1

SDG No.:

Lab Sample ID: CCVIS 480-742666/4 Calibration Date: 04/03/2025 19:49

Instrument ID: HP5977M Calib Start Date: 01/18/2025 11:38

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/18/2025 13:59

Lab File ID: M17499.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.396	2.553	0.1000	53.3	50.0	6.5	20.0
1,2-Dichloropropane	Ave	1.413	1.571	0.1000	55.6	50.0	11.2	20.0
Dibromomethane	Ave	0.8141	0.7981	0.1000	49.0	50.0	-2.0	20.0
1,4-Dioxane	Ave	0.0078	0.0077		988	1000	-1.2	50.0
Bromodichloromethane	Ave	1.510	1.596	0.2000	52.9	50.0	5.7	20.0
2-Chloroethyl vinyl ether	Ave	0.7713	0.8163		52.9	50.0	5.8	20.0
cis-1,3-Dichloropropene	Ave	1.783	1.805	0.2000	50.6	50.0	1.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6907	0.9003	0.1000	326	250	30.4*	20.0
Toluene	Ave	1.353	1.380	0.4000	51.0	50.0	2.0	20.0
trans-1,3-Dichloropropene	Ave	0.6749	0.6729	0.1000	49.9	50.0	-0.3	20.0
Ethyl methacrylate	Ave	0.6536	0.6640		50.8	50.0	1.6	20.0
1,1,2-Trichloroethane	Ave	0.4078	0.4088	0.1000	50.1	50.0	0.2	20.0
Tetrachloroethene	Ave	0.5644	0.5385	0.2000	47.7	50.0	-4.6	20.0
1,3-Dichloropropane	Ave	0.7978	0.8043		50.4	50.0	0.8	20.0
2-Hexanone	Ave	0.4281	0.5582	0.1000	326	250	30.4*	20.0
Dibromochloromethane	Ave	0.4968	0.5165	0.1000	52.0	50.0	4.0	20.0
1,2-Dibromoethane	Ave	0.4851	0.4571		47.1	50.0	-5.8	20.0
Chlorobenzene	Ave	1.575	1.506	0.5000	47.8	50.0	-4.3	20.0
Ethylbenzene	Ave	2.653	2.682	0.1000	50.5	50.0	1.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5693	0.5621		49.4	50.0	-1.3	20.0
m,p-Xylene	Ave	1.055	1.023	0.1000	48.4	50.0	-3.1	20.0
o-Xylene	Ave	1.123	1.073	0.3000	47.8	50.0	-4.4	20.0
Styrene	Ave	1.765	1.665	0.3000	47.2	50.0	-5.7	20.0
Bromoform	Ave	0.3402	0.3300	0.1000	48.5	50.0	-3.0	50.0
Isopropylbenzene	Ave	2.077	2.474	0.1000	59.6	50.0	19.1	20.0
Bromobenzene	Ave	0.5943	0.6174		51.9	50.0	3.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6759	0.7450	0.3000	55.1	50.0	10.2	20.0
Propylbenzene, n-	Ave	2.693	3.177		59.0	50.0	18.0	20.0
1,2,3-Trichloropropane	Ave	0.2054	0.2167		52.7	50.0	5.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2090	0.2614		62.6	50.0	25.1	50.0
2-Chlorotoluene	Ave	0.5730	0.6317		55.1	50.0	10.3	20.0
Trimethylbenzene, 1,3,5-	Ave	2.047	2.331		56.9	50.0	13.9	20.0
4-Chlorotoluene	Ave	0.5910	0.6197		52.4	50.0	4.9	20.0
tert-Butylbenzene	Ave	0.4310	0.4763		55.3	50.0	10.5	20.0
Trimethylbenzene, 1,2,4-	Ave	2.166	2.418		55.8	50.0	11.6	20.0
sec-Butylbenzene	Ave	2.632	3.024		57.5	50.0	14.9	20.0
1,3-Dichlorobenzene	Ave	1.280	1.271	0.6000	49.7	50.0	-0.7	20.0
4-Isopropyltoluene	Ave	2.390	2.618		54.8	50.0	9.5	20.0
1,4-Dichlorobenzene	Ave	1.321	1.278	0.5000	48.4	50.0	-3.2	20.0
Butylbenzene	Ave	2.237	2.486		55.6	50.0	11.1	20.0
1,2-Dichlorobenzene	Ave	1.311	1.283	0.4000	48.9	50.0	-2.1	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-228418-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-742665/2-A

Matrix: Solid | Lab File ID: M17503.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/03/2025 21:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 742666 | Units: ug/Kg

Preparation Batch No.: 742665 | Instrument ID: HP5977M

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
95-63-6	Trimethylbenzene, 1,2,4-	ND		5.0	0.96
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
108-67-8	Trimethylbenzene, 1,3,5-	ND		5.0	0.32
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
123-91-1	1,4-Dioxane	ND		100	22
78-93-3	Methyl Ethyl Ketone	ND		25	1.8
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
67-64-1	Acetone	ND		25	4.2
71-43-2	Benzene	ND		5.0	0.25
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
67-66-3	Chloroform	0.604	J	5.0	0.31
156-59-2	1,2-Dichloroethene, cis-	ND		5.0	0.64
100-41-4	Ethylbenzene	ND		5.0	0.35
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
75-09-2	Methylene Chloride	ND		5.0	2.3
104-51-8	Butylbenzene	ND		5.0	0.44
103-65-1	Propylbenzene, n-	ND		5.0	0.40
135-98-8	sec-Butylbenzene	ND		5.0	0.44
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	1,2-Dichloroethene, trans-	ND		5.0	0.52
79-01-6	Trichloroethene	ND		5.0	1.1
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylene (mixed)	ND		10	0.84
98-06-6	tert-Butylbenzene	ND		5.0	0.52

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-228418-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
Drain 1	480-228418-13	70	97	67	91	103	93
Drain 2	480-228418-14	63	72	74	76	70	82
Drain 3	480-228418-15	72	83	80	84	89	88
Drain 4	480-228418-16	0 S1-	144 S1+	105	143 S1+	169 S1+	121
	MB 480-742676/1-A	75	80	83	85	89	84
	LCS 480-742676/2-A	81	86	86	90	107	97
	LCSD 480-742676/3-A	83	91	86	95	105	94

	QC LIMITS
2FP = 2-Fluorophenol	36-120
PHL = Phenol-d5	41-120
NBZ = Nitrobenzene-d5	40-121
FBP = 2-Fluorobiphenyl	50-121
TBP = 2,4,6-Tribromophenol	26-143
TPHd14 = p-Terphenyl-d14	46-143

Column to be used to flag recovery values

FORM II 8270D

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: Drain 1 MS Lab ID: 480-228418-13 MS

Lab Name: Eurofins Buffalo Job No.: 480-228418-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 92.3

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	225.3		13.6		221	96	75-125		6010D
Barium	252.8		227		221	12	75-125	F1	6010D
Beryllium	103.6		1.0	J	110	94	75-125		6010D
Cadmium	113.2		4.7		111	98	75-125		6010D
Chromium	113.4		46.9		111	60	75-125	F1	6010D
Copper	125.2		54.9		111	64	75-125	F1	6010D
Silver	12.06		ND		11.1	109	75-125		6010D
Manganese	571.1		3180		111	-2358	75-125	4	6010D
Nickel	113.0		31.8		111	73	75-125	F1	6010D
Lead	199.6		552		111	-319	75-125	4	6010D
Selenium	218.2		ND		221	99	75-125		6010D
Zinc	345.9		1260		111	-828	75-125	4	6010D

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: Drain 1 MSD Lab ID: 480-228418-13 MSD

Lab Name: Eurofins Buffalo Job No.: 480-228418-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 92.3

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	217.4		210	97	75-125	4	20		6010D
Barium	253.1		210	13	75-125	0	20	F1	6010D
Beryllium	99.83		104	95	75-125	4	20		6010D
Cadmium	108.5		105	99	75-125	4	20		6010D
Chromium	108.6		105	59	75-125	4	20	F1	6010D
Copper	120.3		105	62	75-125	4	20	F1	6010D
Silver	11.41		10.5	109	75-125	6	20		6010D
Manganese	612.5		105	-2439	75-125	7	20	4	6010D
Nickel	109.2		105	74	75-125	3	20	F1	6010D
Lead	249.4		105	-288	75-125	22	20	4 F2	6010D
Selenium	209.1		210	99	75-125	4	20		6010D
Zinc	405.0		105	-814	75-125	16	20	4	6010D

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: Drain 1 PDS Lab ID: 480-228418-13 PDS

Lab Name: Eurofins Buffalo Job No.: 480-228418-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	254.2		13.6		229	105	75-125		6010D
Barium	287.8		227		229	27	75-125	W	6010D
Beryllium	119.7		1.0	J	114	104	75-125		6010D
Cadmium	125.2		4.7		115	105	75-125		6010D
Chromium	124.2		46.9		115	67	75-125	W	6010D
Copper	137.8		54.9		115	72	75-125	W	6010D
Silver	12.86		ND		11.5	112	75-125		6010D
Manganese	723.7		3180		115	NC	75-125		6010D
Nickel	124.8		31.8		115	81	75-125		6010D
Lead	226.5		552		115	-284	75-125	W	6010D
Selenium	246.1		ND		229	107	75-125		6010D
Zinc	341.3		1260		115	NC	75-125		6010D

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-228418-13

SDG No:

Lab Name: Eurofins Buffalo Job No: 480-228418-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	13.6		ND		NC		6010D
Barium	227		42.82		81	V	6010D
Beryllium	1.0	J	ND		NC		6010D
Cadmium	4.7		0.940	J	NC		6010D
Chromium	46.9		8.98		81	V	6010D
Copper	54.9		9.67		82	V	6010D
Silver	ND		ND		NC		6010D
Manganese	3180		633.4		80	V	6010D
Nickel	31.8		5.72	J	NC		6010D
Lead	552		101.7		82	V	6010D
Selenium	ND		ND		NC		6010D
Zinc	1260		256.0		80	V	6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

Appendix J

October 7, 2025

Michael J. Keller, E.I.T.
Project Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
700 Delaware Ave., Buffalo, NY 14209
P: (716) 851-7218
michael.keller@dec.ny.gov

Re: Off-Site Work Summary – Supplemental Remedial Investigation – The Nest BCP Site No. C932183

Michael,

This findings summary is in response to the Off-Site Supplemental Remedial Investigation (RI) for The Nest Brownfield Cleanup Program (BCP) Site No. C932183 which was completed on May 30, 2025.

INTRODUCTION

A supplemental RI was conducted at The Nest BCP Site located at 333 1st Street, Niagara Falls, NY. An off-site dry cleaner was formerly operating out of what is currently the northern adjacent parking lot. The supplemental work was completed to assess impacts from the potential off-site source as requested by New York State Department of Environmental Conservation (NYSDEC) and NYS Department of Health (NYSDOH). The following were required:

A. Determine the potential off-site source location and migration pathway of the volatile organic compounds (VOCs) found in soil vapor and groundwater.
B. Determine if the offsite area to the north is a potential source of contaminants migrating through the site and onto neighboring occupied properties.
C. Determine if there is a Significant Threat posed by these VOCs.

INVESTIGATION

One off-site bedrock groundwater (GW) well was installed in accordance with the previously approved Remedial Investigation Work Plan (RIWP) Section 4.3 and associated procedures. On April 22, 2025, a 4-inch diameter steel casing was installed approximately 3 feet into bedrock. The casing was allowed to set for 48 hours before coring. On April 24, 2025, the bedrock was cored and the well completed to a depth of approximately 31.4 feet below ground surface (bgs). Approximately 833 gallons of construction water was lost to the subsurface during drilling activities. A coring log was generated detailing bedrock conditions in the well location.

The well was initially developed on April 25, 2025. Approximately 200 gallons, or 147 well volumes, were removed from the well. Periodic readings of pH, oxygen reduction potential (ORP),

turbidity, and temperature were taken and recorded in the attached logs. Development was deemed complete after water parameters were confirmed to have stabilized.

The well was subsequently purged and sampled on April 28, 2025. An additional 22 gallons of water were purged from the well prior to sampling and the sample denoted OFFsite MW-1.

After discussion with DEC, an internal decision was made to further develop the well and remove an additional 650 gallons before resampling. The second round of well development began on May 29, 2025, when approximately 350 gallons of water were removed using a submersible pump. The remaining 300 gallons was then removed on May 30, 2025, using a submersible pump. An additional 30 gallons was then purged using a low flow pump to ensure parameters were stabilized and turbidity was under 50 Nephelometric Turbidity Unit (NTU) prior to sampling. Periodic readings of pH, ORP, turbidity, and temperature were taken and recorded in the attached logs. The sample from the second sampling event was denoted OW-1.

In total, approximately 900 gallons of water, or 624 well volumes, were removed from the well. Analysis of the GW from both sampling rounds included Target Compound List (TCL) VOCs, semi-volatile organic compounds (SVOCs) and per- and polyfluoroalkyl substances (PFAS). All development and purge water from both development and purging rounds was stored in NYS Department of Transportation (DOT) approved 55-gallon drums.

Two proximate vapor points were installed to the north and south of the site (RI-VP-1 and RI-VP-2). The installation followed previously approved RIWP Section 4.4 and associated procedures with depths of approximately 5 feet bgs.

RI-VP-1 was installed on April 14, 2025, in the church parking lot south of 333 1st Street, a canister was set on April 17, 2025, and collected 24 hours later on April 18, 2025. RI-VP-2 was installed on April 22, 2025, in the southeastern corner of the parking lot north of 333 1st Street, a canister was set on April 24, 2025, and collected 24 hours later on April 25, 2025. A 6-liter summa canister with a 24-hour flow controller was utilized at both locations.

Attached are copies of the laboratory data, daily field reports, bedrock coring/construction log, development logs, purge logs and vapor construction logs. See **Figure 1** for sample locations and relevant results.

FINDINGS

Groundwater

There were no SVOC exceedances identified during either sampling event.

The following VOC exceedances were identified:

OFFsite Well-1 (4/28/2025)	Result (ug/L)	TOGS 1.1.1 Guidance Values (ug/L)
1,2,4-Trimethylbenzene	77	5
Isopropylbenzene	12	5
N-Propylbenzene	14	5
sec-Butylbenzene	5.1	5

There were no VOC exceedances identified during the resampling event (sample OW-1 Resample).

Although no exceedances were noted, the concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) during each sampling event are provided below.

OFFsite Well-1 (4/28/2025)	Result (ug/L)	TOGS 1.1.1 Guidance Values (ug/L)
Tetrachloroethene	ND	5
Trichloroethene	ND	5

OW-1 Resample (5/30/2025)	Result (ug/L)	TOGS 1.1.1 Guidance Values (ug/L)
Tetrachloroethene	4.6	5
Trichloroethene	2.2	5

The following PFAS exceedances were identified:

OFFsite Well-1 (4/28/2025)	Result (ppt)	Ambient Water Quality Guidance Values (ppt)
Perfluorooctanesulfonic acid (PFOS)	86	2.7
Perfluorooctanoic acid (PFOA)	28	6.7

OW-1 Resample (5/30/2025)	Result (ppt)	Ambient Water Quality Guidance Values (ppt)
Perfluorooctanesulfonic acid (PFOS)	49	2.7
Perfluorooctanoic acid (PFOA)	16	6.7

See **Table 1** for a summary of groundwater detections.

Vapor

There were elevated concentrations of acetone, methyl butyl ketone, and methyl ethyl ketone observed in both RI-VP-1 and RI-VP-2.

The concentrations of TCE and PCE were as follows:

Sample ID	RI-VP-1	RI-VP-2
Tetrachloroethene	51	51
Trichloroethene	ND	8.5

See **Table 2** for a summary of vapor detections.

CONCLUSIONS

The primary contaminants of concern identified during remedial investigation activities on The Nest Site (BCP Site No. C932183) in groundwater and vapor were TCE, PCE, PFOS, and PFOA.

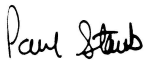
The concentrations of TCE, PCE, and PFOA in groundwater and vapor found during the off-site investigation were lower than those found on The Nest Site. The concentration of PFOS in groundwater found during the off-site investigation was higher than those found on The Nest Site.

The results of the offsite investigation lead to a low possibility that the areas investigated are a significant source of the primary contaminants of concern for The Nest Site and that contaminants are migrating off of the BCP site.

All requested additional sampling has been completed in accordance with the approved *Supplemental Remedial Investigation Work Plan (RIWP)* for The Nest Site (BCP Site No. C932183).

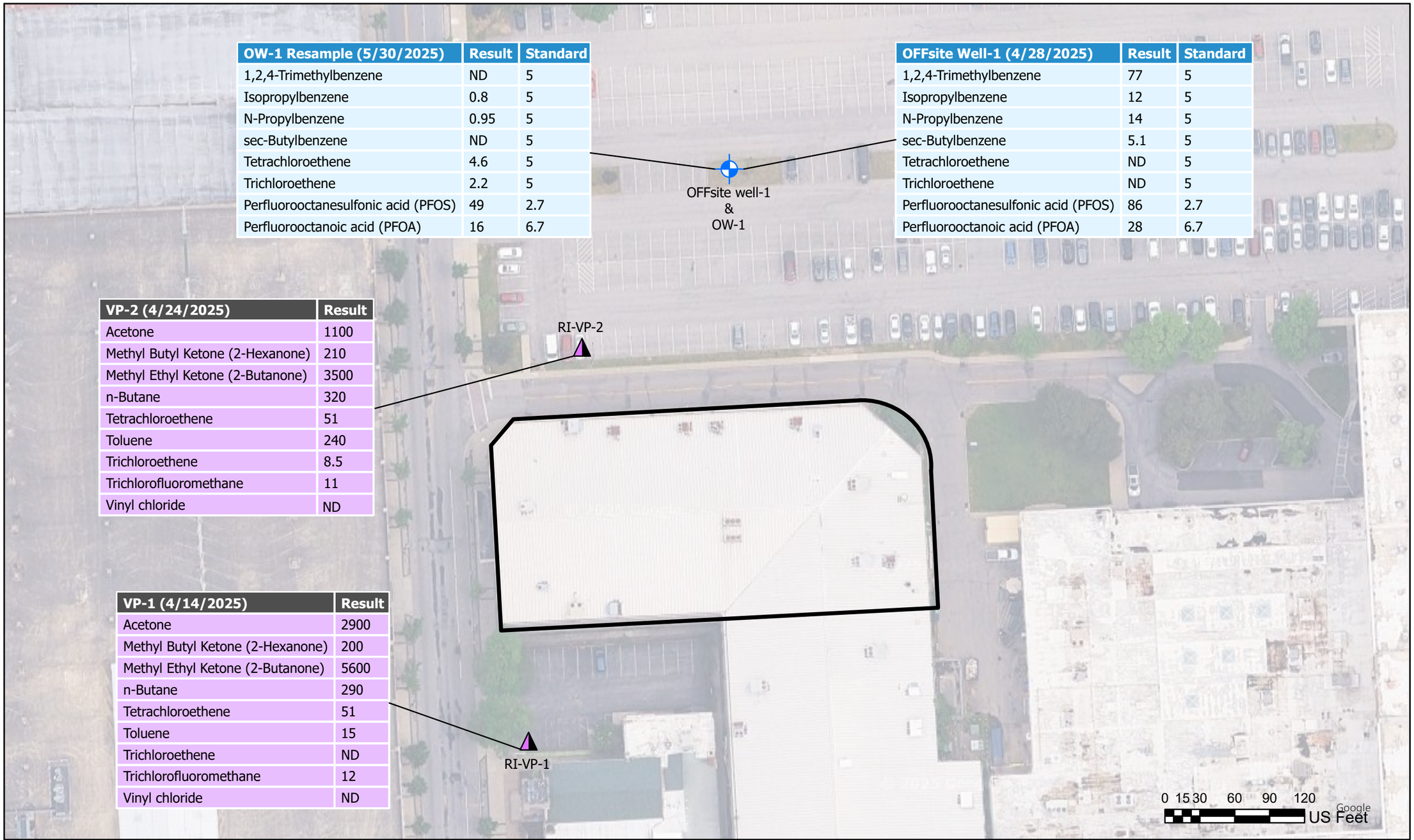
If there are any questions or concerns, I can be reached by phone at (716) 249-6880 or email at pstaub@be3corp.com.

Sincerely,



Paul Staub, E.I.T.
Project Engineer

FIGURES



OW-1 Resample (5/30/2025)	Result	Standard
1,2,4-Trimethylbenzene	ND	5
Isopropylbenzene	0.8	5
N-Propylbenzene	0.95	5
sec-Butylbenzene	ND	5
Tetrachloroethene	4.6	5
Trichloroethene	2.2	5
Perfluorooctanesulfonic acid (PFOS)	49	2.7
Perfluorooctanoic acid (PFOA)	16	6.7

OFFsite Well-1 (4/28/2025)	Result	Standard
1,2,4-Trimethylbenzene	77	5
Isopropylbenzene	12	5
N-Propylbenzene	14	5
sec-Butylbenzene	5.1	5
Tetrachloroethene	ND	5
Trichloroethene	ND	5
Perfluorooctanesulfonic acid (PFOS)	86	2.7
Perfluorooctanoic acid (PFOA)	28	6.7

VP-2 (4/24/2025)	Result
Acetone	1100
Methyl Butyl Ketone (2-Hexanone)	210
Methyl Ethyl Ketone (2-Butanone)	3500
n-Butane	320
Tetrachloroethene	51
Toluene	240
Trichloroethene	8.5
Trichlorofluoromethane	11
Vinyl chloride	ND

VP-1 (4/14/2025)	Result
Acetone	2900
Methyl Butyl Ketone (2-Hexanone)	200
Methyl Ethyl Ketone (2-Butanone)	5600
n-Butane	290
Tetrachloroethene	51
Toluene	15
Trichloroethene	ND
Trichlorofluoromethane	12
Vinyl chloride	ND

LEGEND

- BCP Property Boundary
- Off-Site Well Location
- Vapor Point Location

NOTES

1. All concentrations of groundwater parameters are in ug/L except PFOS and PFOA. PFOS and PFOA are in parts per trillion (ppt).

2. All concentrations of vapor parameters are measured in ug/m3.

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

960 Busti Avenue
Buffalo, NY 14213
716.249.6880
jbrydges@be3corp.com

FIGURE 1

RELEVANT SAMPLE RESULTS
SUPPLEMENTAL RIWP
NEST BCP PROJECT C932183

333 1st Street
Niagara Falls, NY 14303

N
W E
S

DATE ISSUED:
October 7, 2025
△
△
△

SCALE: 1:1,000

TABLES

TABLE 1 - OFF SITE GROUNDWATER SAMPLING RESULTS

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

Parameter Tested	Sample Identification and Sample Date		NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1)
	OFFsite Well-1	OW-1 Resample	
	4/28/2025	5/30/2025	
SVOCS (ug/L)			
4-Chloroaniline	0.86	ND	5
Benzaldehyde	1.3	ND	NS
Di-n-butyl phthalate	ND	0.4	50
Naphthalene	0.92	ND	10
VOCS (ug/L)			
1,2,4-Trichlorobenzene	ND	4.8	5
1,2,4-Trimethylbenzene	77	ND	5
Acetone	ND	6.1	50
Chloroform	1.7	1.1	7
cis-1,2-Dichloroethene	ND	1.2	5
Cyclohexane	1.1	0.63	NS
Isopropylbenzene	12	0.8	5
m,p-Xylene	3.6	ND	5
N-Propylbenzene	14	0.95	5
o-Xylene	ND	ND	5
sec-Butylbenzene	5.1	ND	5
Styrene	ND	ND	5
Total TICs	270	5.2	NS
Tetrachloroethene	ND	4.6	5
Toluene	ND	ND	5
Trichloroethene	ND	2.2	5
Trichlorofluoromethane	ND	ND	5
PFAS (ng/L)			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFC	7	3	NS
N-methylperfluorooctanesulfonamidoacetic acid (NMe	2.4	0.87	NS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	ND	NS
Perfluorobutanesulfonic acid (PFBS)	3.8	2.7	NS
Perfluorobutanoic acid (PFBA)	7.5	5.6	NS
Perfluoroheptanesulfonic acid (PFHpS)	0.89	0.46	NS
Perfluoroheptanoic acid (PFHpA)	3.5	2.5	NS
Perfluorohexanesulfonic acid (PFHxS)	4.2	2.8	NS
Perfluorohexanoic acid (PFHxA)	5.7	4.7	NS
Perfluorononanoic acid (PFNA)	1.3	1.1	NS
Perfluorooctanesulfonamide (PFOSA)	1.4	0.64	NS
Perfluorooctanesulfonic acid (PFOS)	86	49	2.7
Perfluorooctanoic acid (PFOA)	28	16	6.7
Perfluoropentanesulfonic acid (PFPeS)	1	ND	NS
Perfluoropentanoic acid (PFPeA)	3.9	4.9	NS

Notes:
ND Not Detected
NS No Standard
TICs Tentatively Identified Compounds

TABLE 2 - OFF SITE VAPOR SAMPLING RESULTS

Contaminants	Sample Identification, Type of Sample, and Date Analyzed	
	RI-VP-1	RI-VP-2
	4/14/2025	4/24/2025
	Volatile Organic Compounds (TO-15)	
1,2,4-Trimethylbenzene	ND	6.6
1,3-Butadiene	2.4	1.1
Acetone	2900	1100
Benzene	12	7.0
Carbon disulfide	11	29
Chloroform	22	ND
Cyclohexane	39	4.0
Dichlorodifluoromethane	ND	36
Ethylbenzene	4.6	2.2
m,p-Xylene	15	8.2
Methyl Butyl Ketone (2-Hexanone)	200	210
Methyl Ethyl Ketone (2-Butanone)	5600	3500
n-Butane	290	320
n-Heptane	45	28
n-Hexane	30	21
o-Xylene	ND	3.8
Tetrachloroethene	51	51
Toluene	15	240
Trichloroethene	ND	8.5
Trichlorofluoromethane	12	11
Vinyl chloride	ND	ND

Notes:

(1) All values are in micrograms per cubic meter (ug/m^3)

ND Not detected

DAILY FIELD REPORTS

960 Busti Ave.
Buffalo, New York 14213

DAILY FIELD REPORT

Date:	Thursday, April 10, 2025
Site Name:	Old Falls Street
Location:	333 1st Street, Niagara Falls, NY 14303
Contractor/Sub-Contractor:	Empire Geo
Weather Conditions:	Cloudy 40 ˚F ESE 8 MPH

Description of Work Performed:

Empire was able to start work ahead of schedule and initiated mobilization to 401 1st Niagara Falls, NY.

Met with Jason and Brad from Empire and Michael Keller from the DEC.

Began auguring through overburden to attempt to install Offsite MW-1 in agreed upon grass island.

Refusal was encountered at approximately 5 feet bgs.

Due to rebar in drill cuttings and surrounding data on bedrock elevations, it was assumed the refusal was due to reinforced concrete.

A secondary location was chosen approximately 20 feet south east and the same results were encountered.

Due to time constraints and starting halfway through the day, work was paused and planned to resume tomorrow.

Air monitors were not deployed due to precipitation.

Problems/Observations:	None.
Health and Safety Concerns:	None.
Contractor Work Force:	1 Operator, 1 Laborer
Contractor Equipment	1 Drill Rig
Attachments : Daily report, Photo Log, Work location	
Inspectors Name	Paul Staub, Jim Hull

960 Busti Ave.
Buffalo, New York 14213

PHOTO LOG

Date:	Thursday, April 10, 2025
Site Name:	Old Falls Street

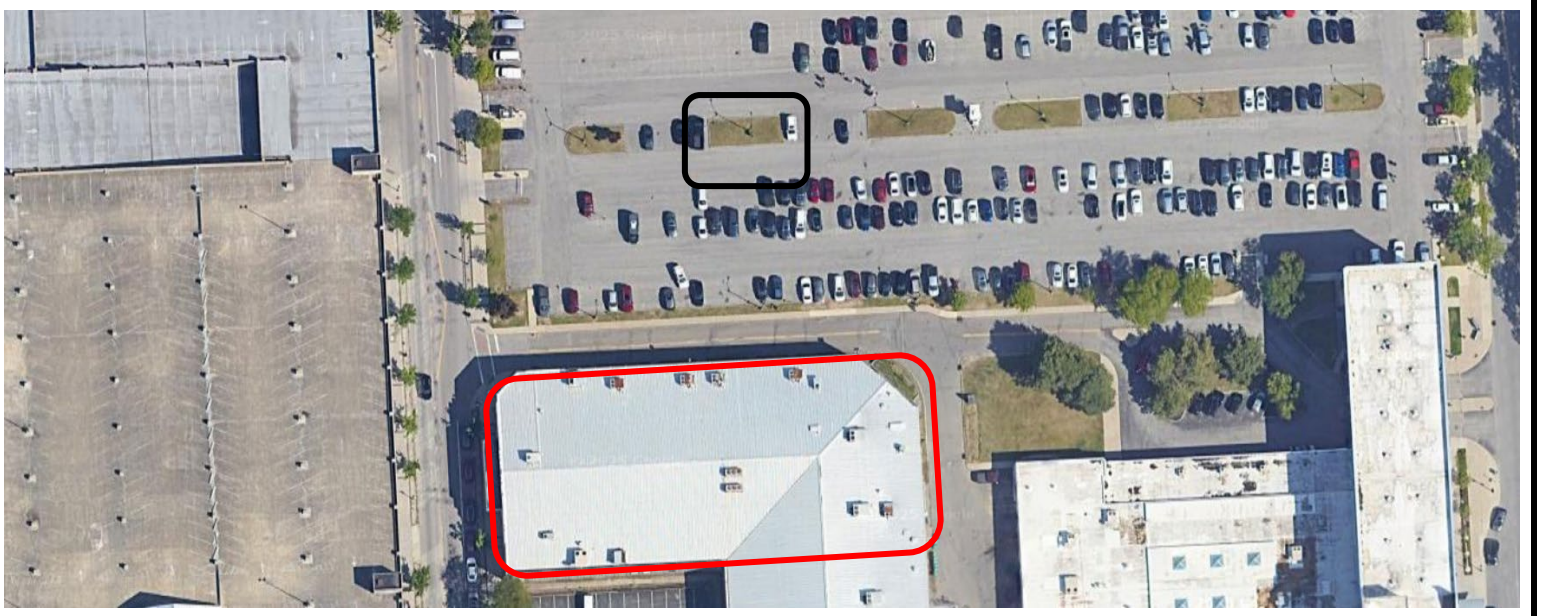
View of initial GW well location, facing north.

View of initial GW well location, facing west.

960 Busti Ave.
Buffalo, New York 14213

WORK LOCATION MAP

Date:	Thursday, April 10, 2025
Site Name:	Old Falls Street



Legend	
	BCP Site Boundary
	Work Location

960 Busti Ave.
Buffalo, New York 14213

DAILY FIELD REPORT

Date:	Friday, April 11, 2025
Site Name:	Old Falls Street
Location:	401 1st Street, Niagara Falls NY
Contractor/Sub-Contractor:	Empire Geo
Weather Conditions:	Cloudy 38 ˚F E 4 MPH

Description of Work Performed:

Arrived on site and met with Empire crew.

Two additional attempts were made to drill down to bedrock, but similar refusal conditions were encountered that were assumed to be reinforced concrete.

Boreholes were backfilled with the material originating from each respective hole in the order in which it was removed. Any excess spoils were placed onsite in NYSDOT approved 55-gallon drums.

Holes in the asphalt were properly patched before leaving the site.

RI-VP-1 was installed south of 333 1st Street in the Church parking lot.

The probe was capped and it was decided that sampling will occur Monday.

Air monitors were not deployed due to precipitation.

Problems/Observations:	None.
Health and Safety Concerns:	None.
Contractor Work Force:	1 Operator, 1 Laborer
Contractor Equipment	1 Drill Rig
Attachments : Daily report, Photo Log, Work location	
Inspectors Name	Paul Staub, Jim Hull

960 Busti Ave.
Buffalo, New York 14213

PHOTO LOG

Date:	Friday, April 11, 2025
Site Name:	Old Falls Street

View of additional GW well installation location

View of additional GW well installation location

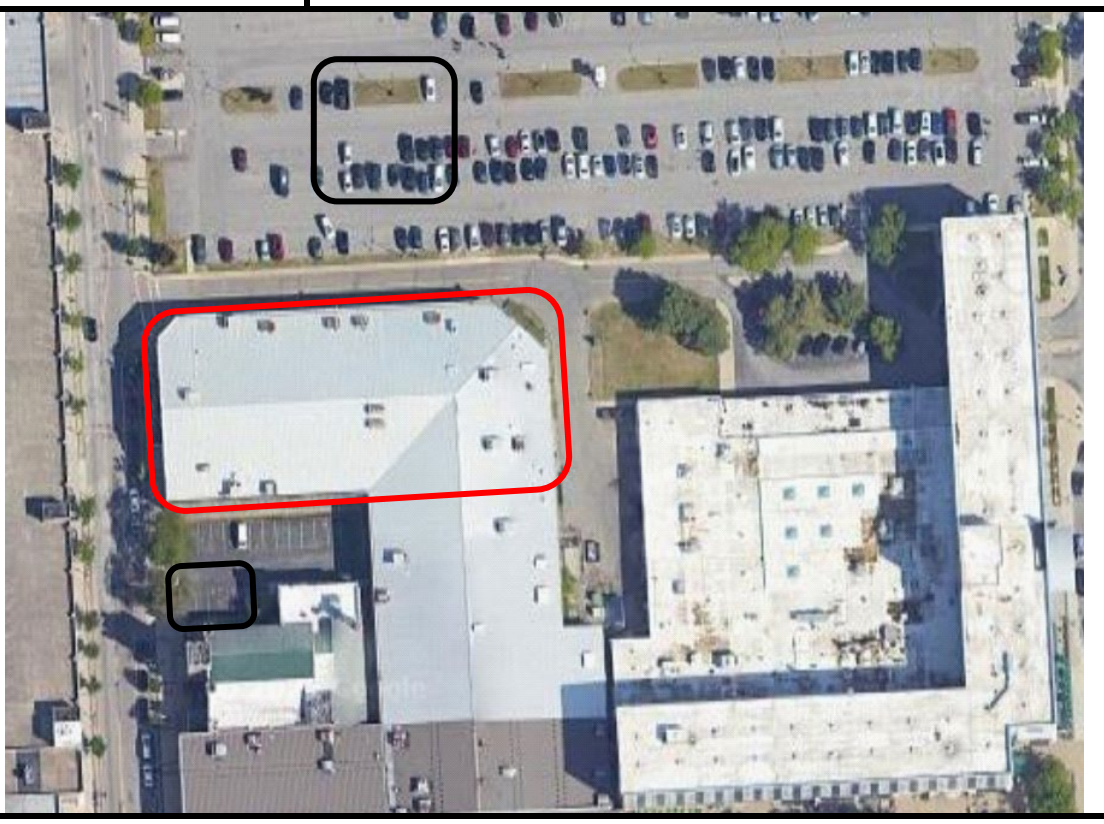
View of RI-VP-1 location south of 333 1st Street, facing east

View of patched attempted GW well location

960 Busti Ave.
Buffalo, New York 14213

WORK LOCATION MAP

Date:	Friday, April 11, 2025
Site Name:	Old Falls Street



Legend	
	BCP Site Boundary
	Work Location

960 Busti Ave.
Buffalo, New York 14213

DAILY FIELD REPORT

Date:	Monday, April 14, 2025		
Site Name:	Old Falls Street		
Location:	401 1st Street, Niagara Falls NY		
Contractor/Sub-Contractor:	Empire Geo		
Weather Conditions:	Cloudy	60 ˚F	SE 14 MPH

Description of Work Performed:

Arrived on site and met with Empire crew.

One additional attempt was made to drill to bedrock. Refusal was encountered earlier than expecting again. It was decided that additional equipment would be required to reach bedrock.

The installation of the GW well is on hold until additional equipment can be brought out.

RI-VP-1 was installed in the southern vapor probe in the church parking lot south of 333 1st Street.

The canister will collect for a 24 hour period and will be picked up tomorrow on 4/15.

Additional locations were discussed for the northern vapor probe due to suspect reinforced concrete.

Air monitors were not deployed due to precipitation.

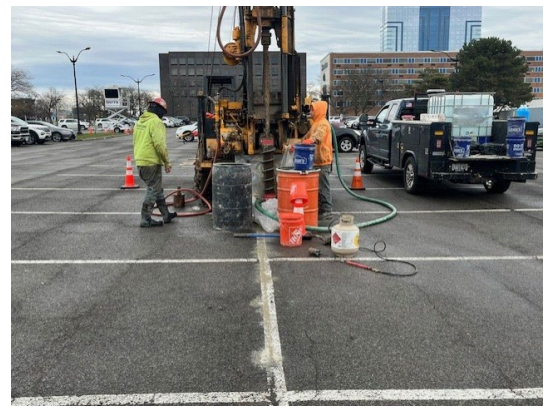
Problems/Observations:	None.
Health and Safety Concerns:	None.
Contractor Work Force:	1 Operator, 1 Laborer
Contractor Equipment	1 Drill Rig
Attachments : Daily report, Photo Log, Work location	
Inspectors Name	Jim Hull

960 Busti Ave.
Buffalo, New York 14213

PHOTO LOG

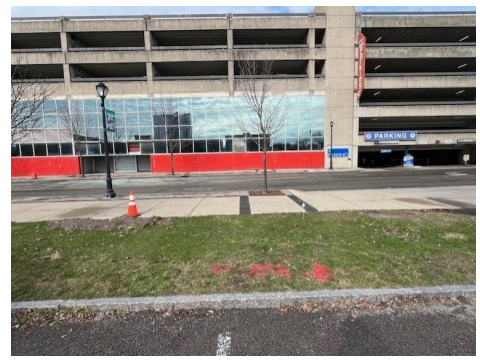
Date:	Monday, April 14, 2025
Site Name:	Old Falls Street

View of additional GW well installation location



View of additional GW well installation location

View of new potential location for RI-VP-2 on adjacent northern roadway from 333 1st street.

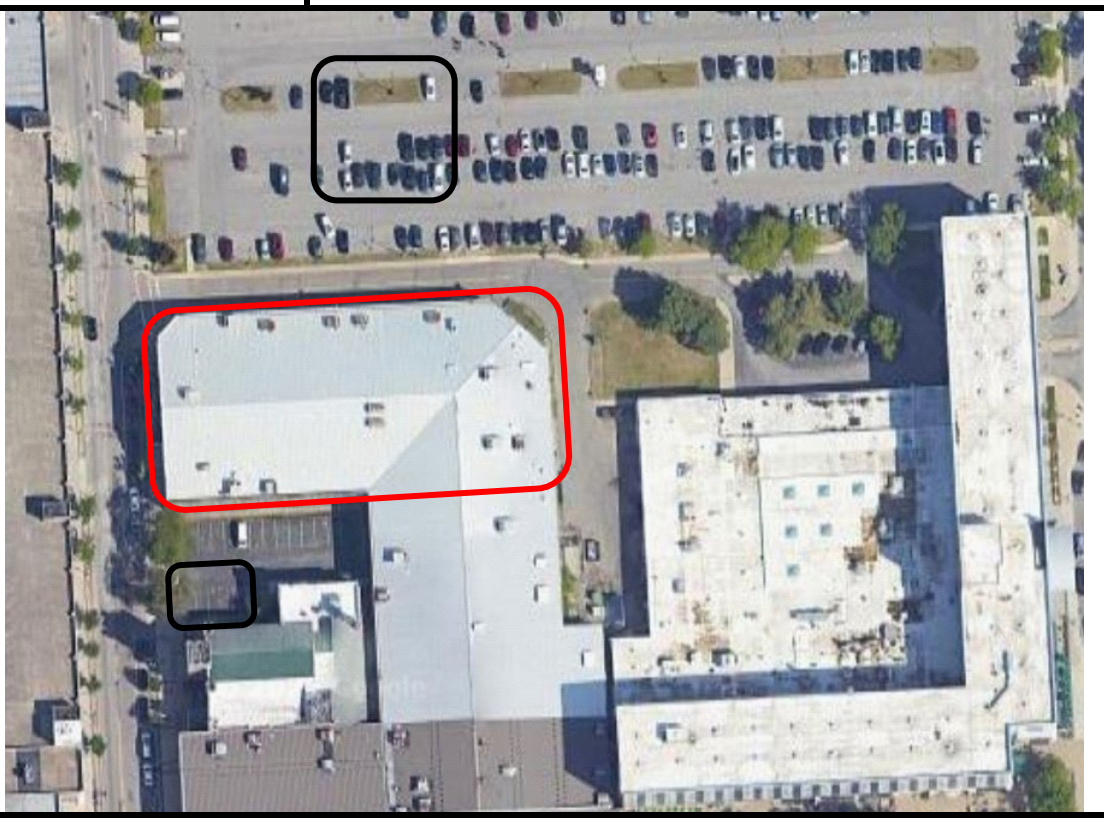


View of new potential location for RI-VP-2 north of 333 1st Street along 1st Street.

960 Busti Ave.
Buffalo, New York 14213

WORK LOCATION MAP

Date:	Monday, April 14, 2025
Site Name:	Old Falls Street



Legend	
	BCP Site Boundary
	Work Location

960 Busti Ave.
Buffalo, New York 14213

DAILY FIELD REPORT

Date:	Thursday, April 17, 2025		
Site Name:	Old Falls Street		
Location:	401 1st Street, Niagara Falls NY		
Contractor/Sub-Contractor:	Scott Lawn Yard		
Weather Conditions:	Sunny	53 ˚F	ESE 5 MPH

Description of Work Performed:

Arrived on site and met with Scott Lawn Yard crew.

A document detailing procedures for performing a test pit on the originally agreed upon GW well location was submitted to DEC PM Michael Keller.

The test pit revealed bedrock at a depth of 5 feet bgs instead of reinforced concrete.

The test pit was backfilled with the original material in the order of which it was removed. Excess material was stockpiled on poly liner and covered on the grass island for future disposal.

Empire was informed that we would resume installation in the originally agreed upon location as soon as possible.

Air monitors were deployed up and down wind of the excavation.

Problems/Observations:	None.
Health and Safety Concerns:	None.
Contractor Work Force:	1 Operator, 1 Laborer
Contractor Equipment	1 Excavator
Attachments : Daily report, Photo Log, Air quality Data, Work location	
Inspectors Name	Jim Hull

960 Busti Ave.
Buffalo, New York 14213

PHOTO LOG

Date:	Thursday, April 17, 2025
Site Name:	Old Falls Street

View of down wind air monitor location north of test pit.

View of test pit with bedrock encountered at approximately 5 feet bgs.

View of test pit with bedrock encountered at approximately 5 feet bgs.

View of backfilled test pit at end of day.

960 Busti Ave.
Buffalo, New York 14213

COMMUNITY AIR MONITORING PROGRAM DATA

Date:	Thursday, April 17, 2025				
Site Name:	Old Falls Street				
Upwind Data		Downwind Data			Delta
Time	PM 10 - 15 min AVG (µg/m³)	Time	PM 10 - 15 min AVG (µg/m³)	VOC	PM 10 - 15m AVG (µg/m³)
4/17/2025 8:00	3.6	4/17/2025 7:30	4.3	0	0.7
4/17/2025 8:15	4	4/17/2025 7:45	6.7	0	2.7
4/17/2025 8:30	7.1	4/17/2025 8:00	4.2	0	-2.9
4/17/2025 8:45	4.7	4/17/2025 8:15	6.2	0	1.5
4/17/2025 9:00	8.8	4/17/2025 8:30	8.9	0	0.1
4/17/2025 9:15	4.7	4/17/2025 8:45	8	0	3.3
4/17/2025 9:30	7	4/17/2025 9:00	10.4	0	3.4
4/17/2025 9:45	7.5	4/17/2025 9:15	7.9	0	0.4
4/17/2025 11:45		4/17/2025 9:30	8.4	0	8.4
4/17/2025 12:00	67.6	4/17/2025 12:00	15	0	-52.6
4/17/2025 12:15	51.7	4/17/2025 12:15	23.5	0	-28.2
4/17/2025 12:30	43.1	4/17/2025 12:30	11.6	0	-31.5
4/17/2025 12:45	51.5	4/17/2025 12:45	15.4	0	-36.1
4/17/2025 13:00	67.4	4/17/2025 13:00	13.2	0	-54.2
4/17/2025 13:15	87.1	4/17/2025 13:15	5.5	0	-81.6
4/17/2025 13:30	34.5	4/17/2025 13:30	6.5	0	-28.0
4/17/2025 13:45	27.8	4/17/2025 13:45	9.8	0	-18.0
4/17/2025 14:00	75.5	4/17/2025 14:00	21.3	0	-54.2
4/17/2025 14:15	71.3	4/17/2025 14:15	16.1	0	-55.2
		4/17/2025 14:30	10	0	10.0

Particulate Threshold PM 10 15minute average = 100µg/m³ above background

960 Busti Ave.
Buffalo, New York 14213

WORK LOCATION MAP

Date:	Thursday, April 17, 2025
Site Name:	Old Falls Street

Legend	
UW	Upwind Air Monitor Location
DW	Downtown Air Monitor Location
	BCP Site Boundary
	Work Location

960 Busti Ave.
Buffalo, New York 14213

DAILY FIELD REPORT

Date:	Tuesday, April 22, 2025
Site Name:	Old Falls Street
Location:	401 1st Street, Niagara Falls NY
Contractor/Sub-Contractor:	Empire Geo
Weather Conditions:	Partly cloudy 58 ˚F WSW 4 MPH

Description of Work Performed:

Arrived on site and met with Jason and Brad from Empire.

Began drilling to bedrock in originally agreed upon GW well location in grass island.

Steel casing was installed 3 feet into bedrock and grouted into place. Casing will sit for 48 hours before rock coring begins.

RI-VP-2 was installed in the originally agreed upon location in the southwestern corner of 401 1st Street. The probe was capped and is planned to be set on 4/24 during rock coring for the GW well.

Air monitors were deployed up and down wind of the excavation.

Problems/Observations:	None.
Health and Safety Concerns:	None.
Contractor Work Force:	1 Operator, 1 Laborer
Contractor Equipment	1 Drill rig
Attachments : Daily report, Photo Log, Air quality Data, Work location	
Inspectors Name	Jim Hull

960 Busti Ave.
Buffalo, New York 14213

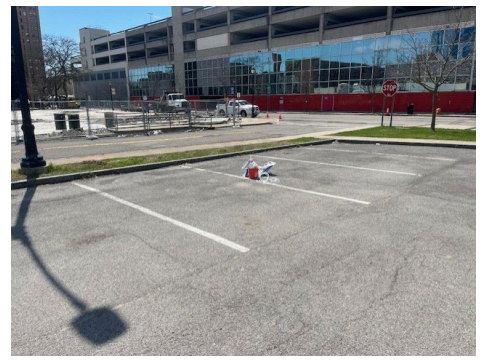
PHOTO LOG

Date:	Tuesday, April 22, 2025
Site Name:	Old Falls Street

View of original and final GW well location.

View of steel casing.

View of steel casing.



View of RI-VP-2 location.

960 Busti Ave.
Buffalo, New York 14213

COMMUNITY AIR MONITORING PROGRAM DATA

Date:	Tuesday, April 22, 2025				
Site Name:	Old Falls Street				
Upwind Data		Downwind Data			Delta
Time	PM 10 - 15 min AVG (µg/m³)	Time	PM 10 - 15 min AVG (µg/m³)	VOC	PM 10 - 15m AVG (µg/m³)
4/22/2025 9:30	0	4/22/2025 9:30	0.2	0	0.2
4/22/2025 9:45	0	4/22/2025 9:45	0	0	0.0
4/22/2025 10:00	0	4/22/2025 10:00	0.1	0	0.1
4/22/2025 10:15	0	4/22/2025 10:15	0	0	0.0
4/22/2025 10:30	0	4/22/2025 10:30	0.6	0	0.6
4/22/2025 10:45	0.2	4/22/2025 10:45	0.6	0	0.4
4/22/2025 11:00	0.1	4/22/2025 11:00	1.2	0	1.1
4/22/2025 11:15	0.3	4/22/2025 11:15	2.6	0	2.3
4/22/2025 11:30	0.5	4/22/2025 11:30	2.7	0	2.2
4/22/2025 11:45	0.6	4/22/2025 11:45	1.8	0	1.2
4/22/2025 12:00	0.3	4/22/2025 12:00	1.6	0	1.3
4/22/2025 12:15	0.5	4/22/2025 12:15	1.6	0	1.1
4/22/2025 12:30	0.3	4/22/2025 12:30	1.4	0	1.1
4/22/2025 12:45	0.4	4/22/2025 12:45	0.9	0	0.5
4/22/2025 13:00	0.6	4/22/2025 13:00	2.2	0	1.6
4/22/2025 13:15	0.6	4/22/2025 13:15	2.5	0	1.9
4/22/2025 13:30	0.6	4/22/2025 13:30	2.5	0	1.9
4/22/2025 13:45	0.6	4/22/2025 13:45	2.1	0	1.5
4/22/2025 14:00	0.9	4/22/2025 14:00	2.5	0	1.6
4/22/2025 14:15	1.3	4/22/2025 14:15	3	0	1.7
4/22/2025 14:30	2.7	4/22/2025 14:30	4.5	0	1.8
4/22/2025 14:45	2.6	4/22/2025 14:45	5.5	0	2.9
4/22/2025 15:00	2.1	4/22/2025 15:00	5.6	0	3.5
4/22/2025 15:15	2.4	4/22/2025 15:15	5.5	0	3.1
4/22/2025 15:30	6.1	4/22/2025 15:30	8.2	0	2.1

Particulate Threshold PM 10 15minute average = 100µg/m³ above background

960 Busti Ave.
Buffalo, New York 14213

WORK LOCATION MAP

Date:	Tuesday, April 22, 2025
Site Name:	Old Falls Street

Legend	
UW	Upwind Air Monitor Location
DW	Downtown Air Monitor Location
	BCP Site Boundary
	Work Location

960 Busti Ave.
Buffalo, New York 14213

DAILY FIELD REPORT

Date:	Thursday, April 24, 2025		
Site Name:	Old Falls Street		
Location:	401 1st Street, Niagara Falls NY		
Contractor/Sub-Contractor:	Empire Geo		
Weather Conditions:	Sunny	75 ˚F	NE 5 MPH

Description of Work Performed:

Arrived on site and met with Jason and Brad from Empire.

Began coring bedrock well.

Cores were assessed for each run and noted in a coring log.

A final depth of approximately 31.4 feet bgs was reached and the well was flush mounted into the grass island with a curb box and concrete. Multiple breaks were needed throughout the day to refill water supplies due to the loss of large quantities of water to the subsurface. Loss of water is a result of multiple fractures observed in the bedrock.

Approximately 833-gallons of water was lost to the subsurface.

Well development is scheduled to occur tomorrow 4/25.

RI-VP-2 was set and will be picked up 24 hours later on 4/25 during well development.

Air monitors were deployed up and down wind of the excavation.

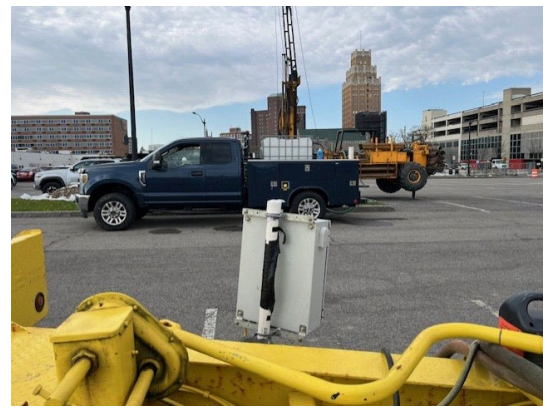
Problems/Observations:	None.
Health and Safety Concerns:	None.
Contractor Work Force:	1 Operator, 1 Laborer
Contractor Equipment	1 Drill rig
Attachments : Daily report, Photo Log, Air quality Data, Work location	
Inspectors Name	Jim Hull, John Boyd P.G.

960 Busti Ave.
Buffalo, New York 14213

PHOTO LOG

Date:	Thursday, April 24, 2025
Site Name:	Old Falls Street

View of bedrock coring and upwind monitor, facing north.



View of bedrock coring and downwind monitor, facing south.

View of bedrock cores.

View of Offsite MW-1 flush mounted into grass island.

960 Busti Ave.
Buffalo, New York 14213

COMMUNITY AIR MONITORING PROGRAM DATA

Date:	Thursday, April 24, 2025				
Site Name:	Old Falls Street				
Upwind Data		Downwind Data			Delta
Time	PM 10 - 15 min AVG (µg/m³)	Time	PM 10 - 15 min AVG (µg/m³)	VOC	PM 10 - 15m AVG (µg/m³)
4/24/2025 9:00	3.3	4/24/2025 9:15	10.2	0	6.9
4/24/2025 9:15	4.3	4/24/2025 9:30	9.4	0	5.1
4/24/2025 9:30	5.4	4/24/2025 9:45	12.5	0	7.1
4/24/2025 9:45	3	4/24/2025 10:00	16.2	0	13.2
4/24/2025 10:00	3.1	4/24/2025 10:15	20	0	16.9
4/24/2025 10:15	2	4/24/2025 10:30	15	0	13.0
4/24/2025 10:30	2	4/24/2025 10:45	19.2	0	17.2
4/24/2025 10:45	2.6	4/24/2025 11:00	19.7	0	17.1
4/24/2025 11:00	2	4/24/2025 11:15	22.1	0	20.1
4/24/2025 11:15	10.1	4/24/2025 11:30	18.7	0	8.6
4/24/2025 11:30	8.7	4/24/2025 11:45	17.6	0	8.9
4/24/2025 11:45	5.6	4/24/2025 12:00	18.3	0	12.7
4/24/2025 12:00	4.8	4/24/2025 12:15	19.1	0	14.3

Particulate Threshold PM 10 15minute average = 100µg/m³ above background

960 Busti Ave.
Buffalo, New York 14213

WORK LOCATION MAP

Date:	Thursday, April 24, 2025
Site Name:	Old Falls Street

Legend	
UW	Upwind Air Monitor Location
DW	Downtown Air Monitor Location
	BCP Site Boundary
	Work Location

960 Busti Ave.
Buffalo, New York 14213

DAILY FIELD REPORT

Date:	Friday, April 25, 2025
Site Name:	Old Falls Street
Location:	401 1st Street, Niagara Falls NY
Contractor/Sub-Contractor:	BE3
Weather Conditions:	Sunny 65 ˚F E 10 MPH

Description of Work Performed:

Arrived on site and began removing well volumes for well development. Water was removed using weighted bailers and a low flow pump.

All development water was stored in on site 55-gallon drums for future disposal.

Periodic water quality parameters were taken using a water quality meter that measures pH, ORP, Turbidity, Temperature. Periodic measurements of the water level were also taken and recorded in development logs.

After approximately 160 gallons were removed, parameters began to stabilize. Two confirmatory checks were done 30 minutes apart from each other. Development ceased once parameters were confirmed to be stable.

In total, approximately 200 gallons or 147 well volumes were removed.

RI-VP-2 was collected and sent to the lab.

Air monitors were not deployed due to lack of ground disturbing activities.

Problems/Observations:	None.
Health and Safety Concerns:	None.
Contractor Work Force:	2 Laborers
Contractor Equipment	Bailer, Peristaltic low flow pump, 55-gallon drums
Attachments : Daily report, Photo Log, Work location	
Inspectors Name	Jim Hull, Paul Staub

960 Busti Ave.
Buffalo, New York 14213

PHOTO LOG

Date:	Friday, April 25, 2025
Site Name:	Old Falls Street

View of well development.

View of extra drums delivered for well development water.

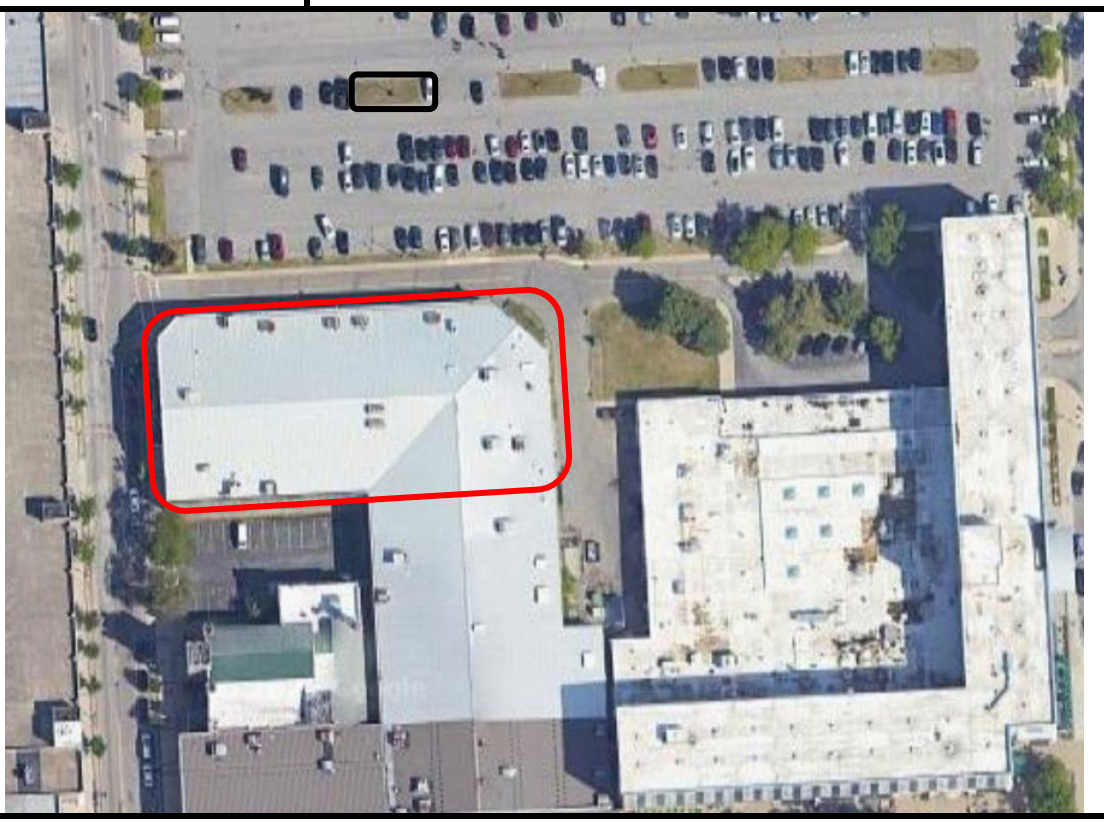
Example reading taken from development water.

Example reading taken from development water.

960 Busti Ave.
Buffalo, New York 14213

WORK LOCATION MAP

Date:	Friday, April 25, 2025
Site Name:	Old Falls Street



Legend	
	BCP Site Boundary
	Work Location

960 Busti Ave.
Buffalo, New York 14213

DAILY FIELD REPORT

Date:	Monday, April 28, 2025
Site Name:	Old Falls Street
Location:	401 1st Street, Niagara Falls NY
Contractor/Sub-Contractor:	BE3
Weather Conditions:	Sunny 70 ˚F ESE 4 MPH

Description of Work Performed:

Arrived on site and began purging well for sampling.

An additional 22 gallons of water were removed before Turbidity was consistently below 50 NTU and all other parameters had stabilized. Data was recorded in purge log.

All purge water was placed in onsite 55-gallon drums for future disposal.

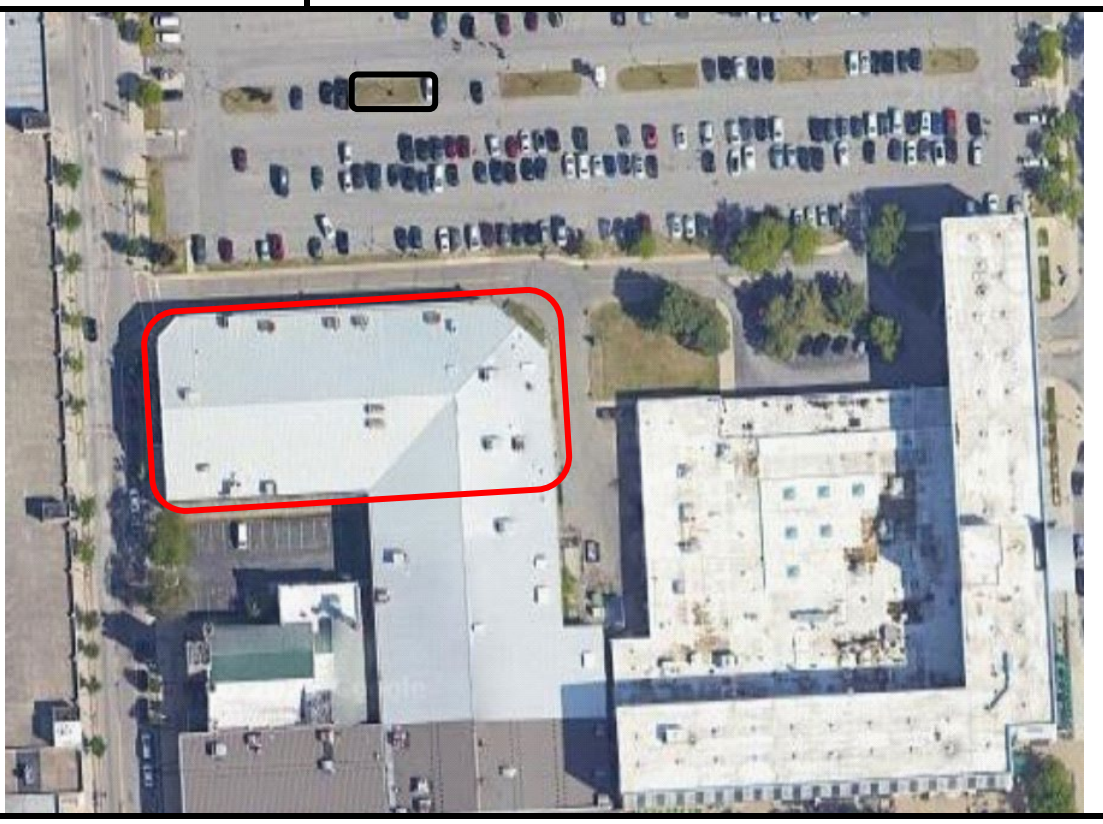
Well was purged using peristaltic low flow pump.

Problems/Observations:	None.
Health and Safety Concerns:	None.
Contractor Work Force:	
Contractor Equipment	Peristaltic low flow pump, 55-gallon drums
Attachments : Daily report, Photo Log, Work location	
Inspectors Name	Jim Hull

960 Busti Ave.
Buffalo, New York 14213

WORK LOCATION MAP

Date:	Monday, April 28, 2025
Site Name:	Old Falls Street



Legend	
	BCP Site Boundary
	Work Location

960 Busti Ave.
Buffalo, New York 14213

DAILY FIELD REPORT

Date:	Thursday, May 29, 2025
Site Name:	Old Falls Street
Location:	401 1st Street, Niagara Falls NY
Contractor/Sub-Contractor:	BE3
Weather Conditions:	Partly cloudy 69 ˚F ESE 5 MPH

Description of Work Performed:

Arrived on site to further develop the well. DEC has stated that an additional 650 gallons must be removed prior to resampling.

Approximately 350 gallons were removed using a submersible pump. Development water was stored on site in 55-gallon drums for later disposal.

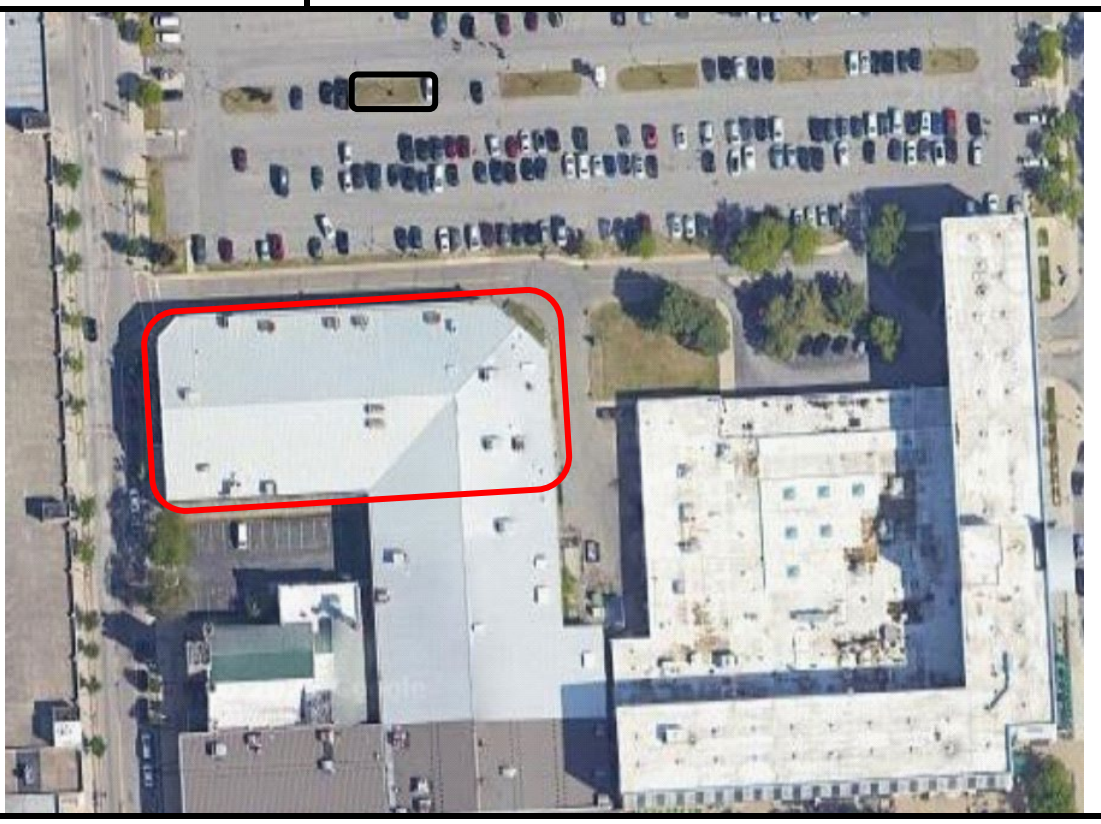
Remainder of water to be removed and sampling to occur tomorrow 5/30.

Problems/Observations:	None.
Health and Safety Concerns:	None.
Contractor Work Force:	
Contractor Equipment	Peristaltic low flow pump, 55-gallon drums
Attachments : Daily report, Photo Log, Work location	
Inspectors Name	Jim Hull

960 Busti Ave.
Buffalo, New York 14213

WORK LOCATION MAP

Date:	Thursday, May 29, 2025
Site Name:	Old Falls Street



Legend	
	BCP Site Boundary
	Work Location

960 Busti Ave.
Buffalo, New York 14213

DAILY FIELD REPORT

Date:	Friday, May 30, 2025
Site Name:	Old Falls Street
Location:	401 1st Street, Niagara Falls NY
Contractor/Sub-Contractor:	BE3
Weather Conditions:	Partly cloudy 69 ˚F ESE 5 MPH

Description of Work Performed:

Arrived on site to further develop the well. DEC has stated that an additional 650 gallons must be removed prior to resampling.

The remaining 300 gallons were removed using a submersible pump. Development water was stored in on site 55-gallon drums for future disposal.

An additional 30 gallons were purged to insure parameters were stabilized and Turbidity was under 50 NTU prior to sampling.

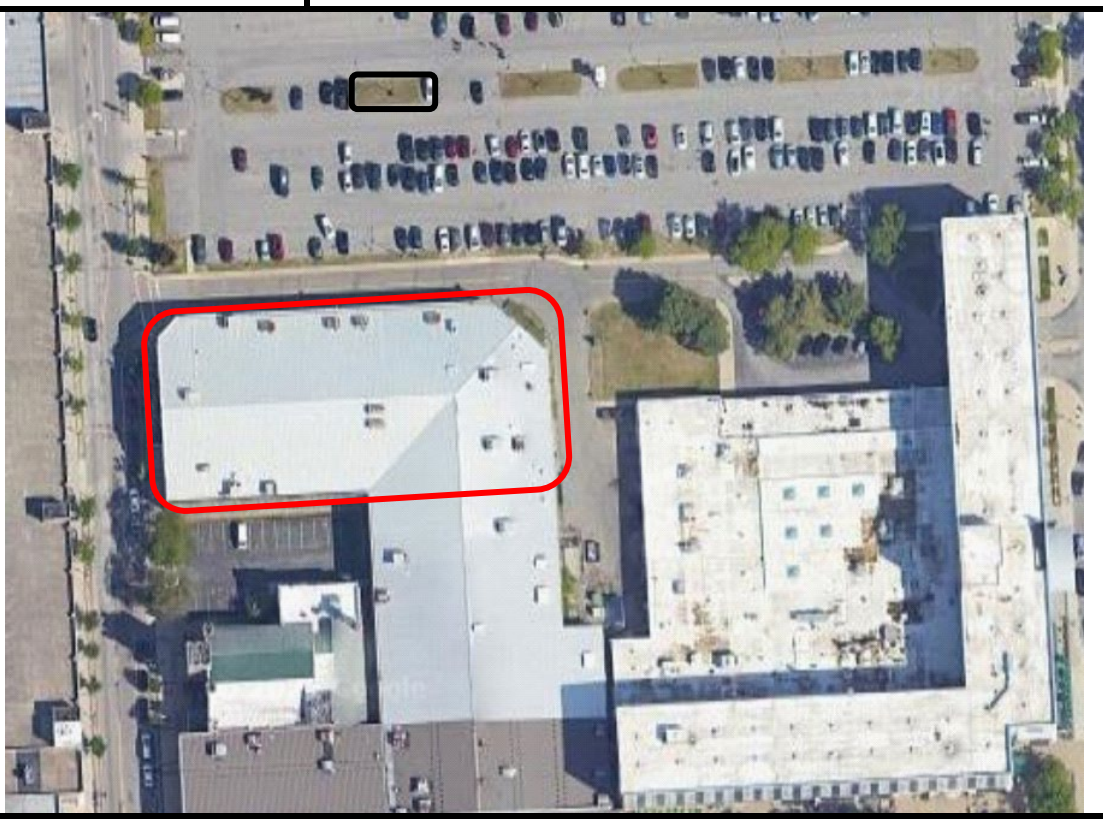
Sample were taken to the lab same day.

Problems/Observations:	None.
Health and Safety Concerns:	None.
Contractor Work Force:	
Contractor Equipment	Peristaltic low flow pump, 55-gallon drums
Attachments : Daily report, Work location	
Inspectors Name	Jim Hull

960 Busti Ave.
Buffalo, New York 14213

WORK LOCATION MAP

Date:	Friday, May 30, 2025
Site Name:	Old Falls Street



Legend	
	BCP Site Boundary
	Work Location

CONSTRUCTION LOGS

DRILLING SUMMARY

Geologist:
John Boyd, P.G.

Contractor:
Empire Exploration and Geology

Operator:
Jason Tadarski

Model:
CME 550 X ATV Drilling Rig

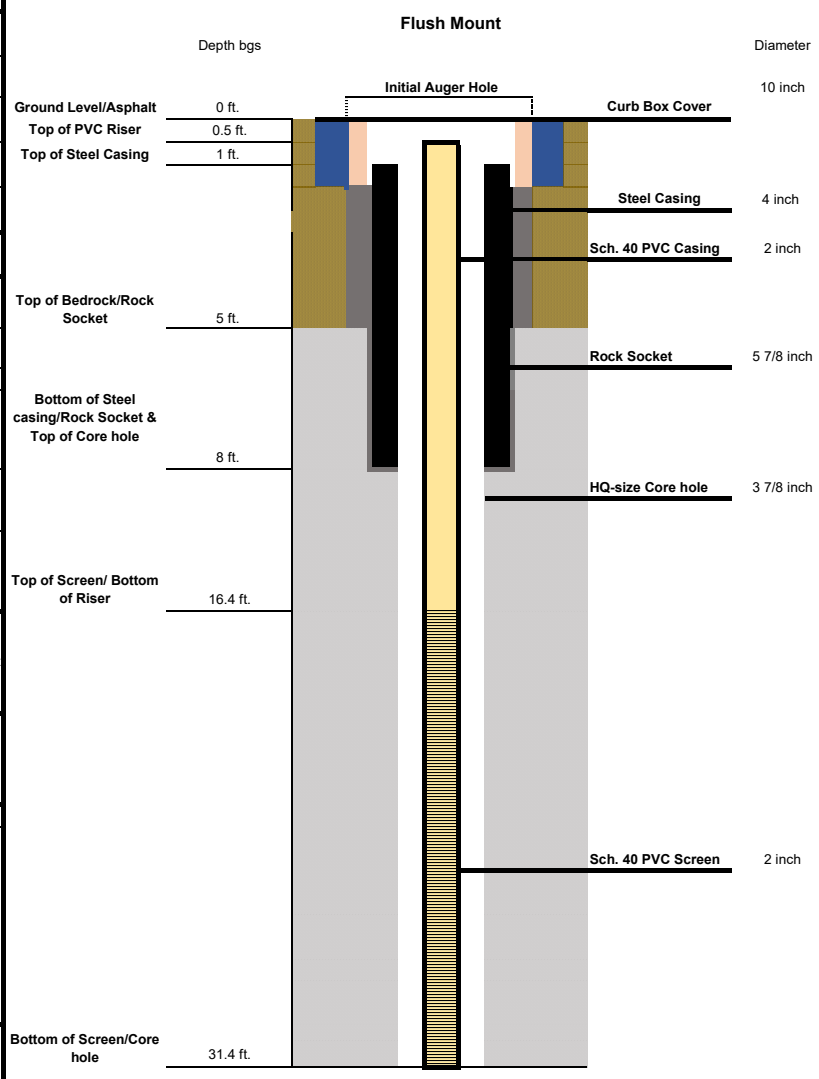
Date:
4/24/2025

BORING/BEDROCK LOG

Depth	Run	Rec. (%)	RQD (%)	Description
0-5'	-	-	-	Overburden
5-8'	-	-	-	Rock socket
8-12'	1	71	34.4	Medium gray brown Dolostone; Heavy fracturing throughout. Vuggy 8.3-9'. Hard.
12-17'	2	83	58	Medium brown gray dolomite. Very fractured. Minimum weathering in fractures.
17-22'	3	46	44	Medium gray brown dolomite. Several vugs 17-17.8'. Weathered fractures from 19-22'. Core very fractured from 19-22' bgs.
22-27'	4	92	54	Brown gray dolomite. Upper level (22-23') very vuggy. Gray with brown bands. 23-26' very competent with 4 mechanical fractures. 26-27' very fractured.
27-31.4'	5	93	70	Medium gray brown dolomite. 27-28.2' 8 fractures. 4 appear as mechanical and 4 weathered. 28.2-28.5' numerous vugs, most with brown staining. 31.4' is unbroken

COMMENTS

1. The well was not sand packed therefore the white spacing on either side of the PVC riser and screen represents void space.
2. The steel casing was positioned 3 feet into bedrock.
3. All depths are measured from ground surface.
4. Approximately 833-gallons of construction water was lost into the subsurface during well installation



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	SEAL MATERIAL	FILTER MATERIAL
0-10' bgs: 4" ⌀ Steel casing (Flush Mount) **Monitor:** 2" Schedule 40 PVC	**Type:** 2" Schedule 40 PVC **Slot Size:** 0.010" **Setting:** 16.4-31.4' bgs	**Type 1:** Grout **Setting:** Surrounding steel casing **Type 2:** Concrete **Setting:** Surrounding curb box	**Type:** N/A **Setting** N/A

LEGEND

Cement Grout | Overburden | Concrete | Steel Casing | PVC Riser Pipe | PVC Screen

Bedrock | Curb Box | Void Space

Client: Regan Development

Location: 401 1st Street, Niagara Falls NY

Project No.: N/A

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC

MONITORING WELL CONSTRUCTION DETAILS

Well Identifier: OW-1

VAPOR POINT STANDARD DETAIL

Staff:
Jim Hull

Contractor:
Empire Exploration & Geology

Operator:
Chuck Guzzetta, P.G.

Equipment:
CME 550 X ATV Drilling Rig

Date:
April 14, 2025

Location:
47 East Amherst Street, Buffalo, NY

SEAL MATERIAL

Type:	Bentonite Chips
Setting:	0-3 ft bgs

FILTER MATERIAL

Type:	No. 0 Sand
Setting:	3-5 ft bgs

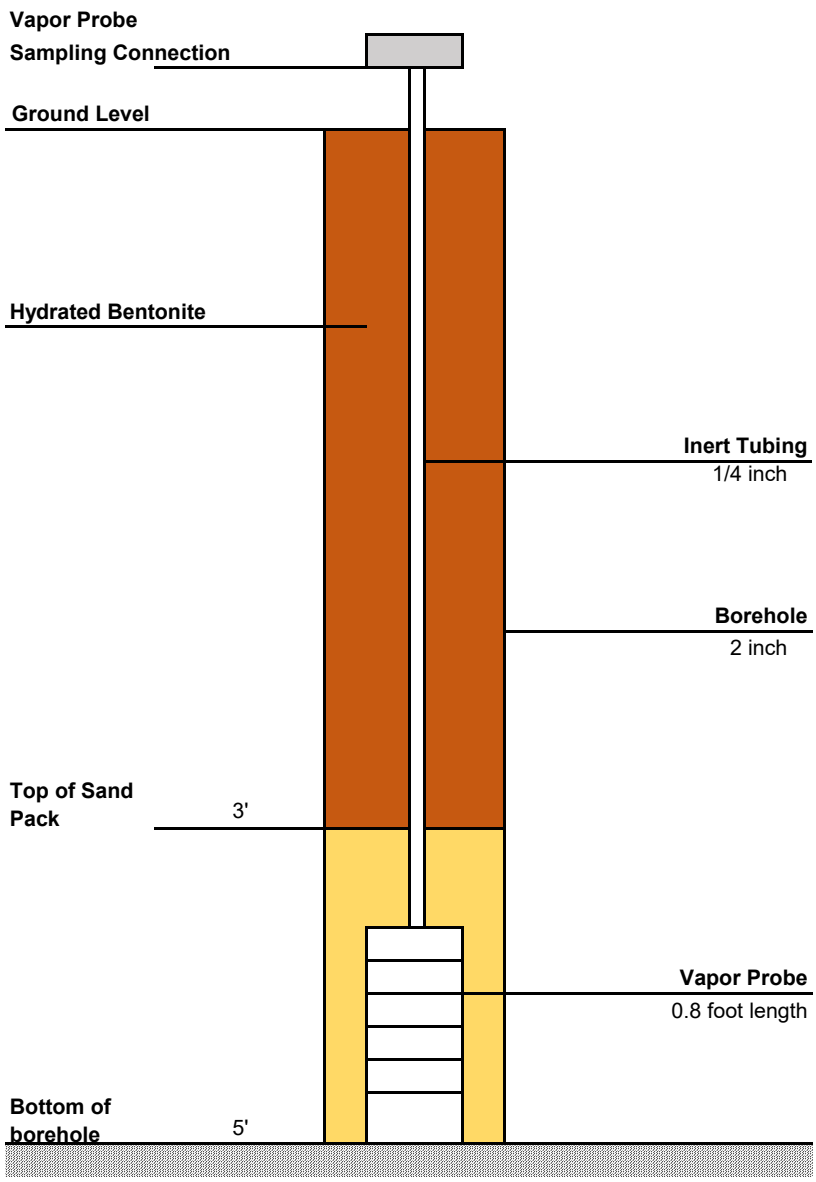
LEGEND

Bentonite Chip Seal

Sand Pack

COMMENTS

Vapor probe is stainless steel



BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC

Client: Regan Development

Probe No.: RI-VP-1

VAPOR POINT STANDARD DETAIL

Staff:
Jim Hull

Contractor:
Empire Exploration & Geology

Operator:
Chuck Guzzetta, P.G.

Equipment:
CME 550 X ATV Drilling Rig

Date:
April 22, 2025

Location:
47 East Amherst Street, Buffalo, NY

SEAL MATERIAL

Type:	Bentonite Chips
Setting:	0-3 ft bgs

FILTER MATERIAL

Type:	No. 0 Sand
Setting:	3-5 ft bgs

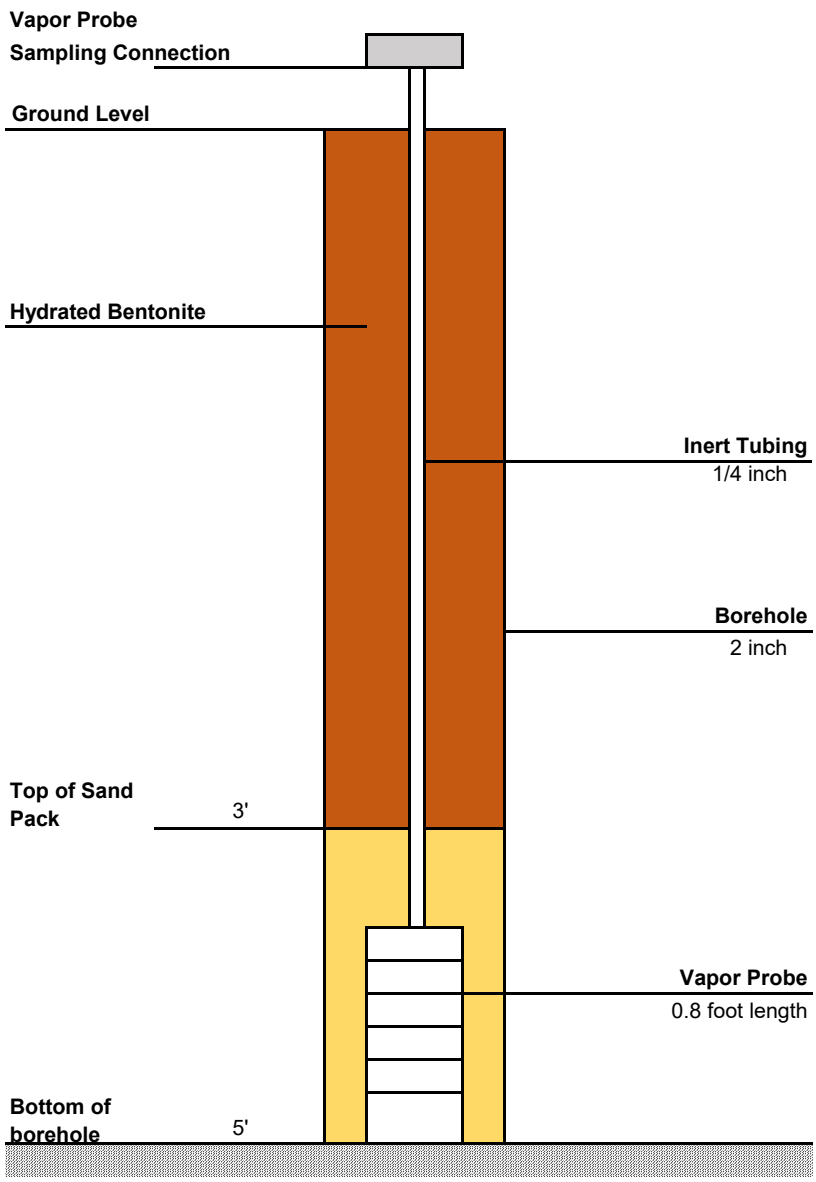
LEGEND

Bentonite Chip Seal

Sand Pack

COMMENTS

Vapor probe is stainless steel



BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC

Client: Regan Development

Probe No.: RI-VP-2

DEVELOPMENT
AND
PURGE LOGS

1ST SAMPLING EVENT

WELL DEVELOPMENT LOG

PROJECT TITLE: The NEST Old Falls WELL NO.: Offsite well - 1

PROJECT NO.: C932183

STAFF: Hull, Staub

DATE(S): 4/25/2025

DEVELOPMENT METHOD: Low Flow Peristaltic Pump, HDPE Tubing

Weighted 2" bailer

			WELL ID.	VOL. (GAL/FT)
1. DEPTH TO WELL BOTTOM (FT. BTOR)	=	30.50	1	0.04
2. WATER LEVEL BELOW TOP OF RISER (FT. BTOR)	=	22.50	2	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	8.00	3	0.38
4. VOLUME OF WATER/FOOT OF CASING (GALLONS)	=	0.17	4	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.36	5	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x__3_)	=	4.08	6	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	200.0	8	2.60

OR

V=0.0408 x (CASING DIAMETER)²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	20	40	125	135	145	160	175	200			
pH	7.46	7.46	7.49	7.5	7.49	7.48	7.49	7.49			
TEMPERATURE (°C)	12.8	12.9	12.9	13.2	13	12.9	12.9	12.9			
SPEC. COND. (mS/cm)	3.979	3.963	4.36	4.634	4.646	4.698	4.696	4.693			
ORP (mV)	4.6	12.6	-40.9	-26.7	-27.5	-28.7	-28.8	-28.7			
DISSOLVED OXYGEN (mg/l)	4.21	3.8	3.7	5.82	5.85	5.96	6.07	5.98			
TURBIDITY (NTU)	252.49	151.62	77.5	75.69	57.04	43.52	49.37	45.37			
DEPTH TO WATER (btor)	23.1	23.3	23.8	23.9	23.9	23.9	23.9	23.9			
TIME	1100	1130	1500	1536	1603	1641	1710	1741			

COMMENTS:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: The Nest Site: ~~401~~ 1st St Well I.D.: OFFSITE WELL 1

Date: 4/28/25 Sampling Personnel: Hull Company: BE3

Purging/Sampling Device: Bailer weighted 2" / Peristaltic low flow pump Tubing Type: HDPE/Silicon Pump/Tubing Inlet Location: 30+

Measuring Point: ground surface Initial Depth to Water: 22.8' Depth to Well Bottom: 30.5 Well Diameter: 2 in Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gallons: 1.36 Estimated Purge Volume ~~(liters)~~ gallons: 22

Sample ID: OFFSITE WELL 1 Sample Time: 1130 QA/QC:

Sample Parameters: VOC, SVOC, PFAS

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1030	7.4	14.8	.490	8.0	38.04	188.8		23.2
1045	7.6	15.9	3.0	5.85	47.02	109.6		23.2
1055	7.68	16.0	.463	8.22	37.38	101.5		23.2
1110	7.79	17.5	.127	9.04	48.37	8.4		23.2
1125	8.06	16.5	.126	8.61	22.52	85.7		23.2
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

2ND SAMPLING EVENT

WELL DEVELOPMENT LOG

PROJECT TITLE: NEST OFFSITE WELL WELL NO.: OW-1

PROJECT NO.: NEST OFFSITE WELL

STAFF: J. Hall

DATE(S): ~~5/28/25~~ 5/28/25 – 5/29/25

DEVELOPMENT METHOD: ~~Weighted Bailer surge and purge~~ Peristaltic Pump (low flow)

			WELL ID.	VOL. (GAL/FT)
1. DEPTH TO WELL BOTTOM (FT. BTOR)	=	~~31.4~~ 31.4	1"	0.04
2. WATER LEVEL BELOW TOP OF RISER (FT. BTOR)	=	22.9	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	8.5	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GALLONS)	=	~1.7	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.445	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	4.4921	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	~~1680~~ TOTAL 660	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
pH	6.28	6.35	6.52	6.96							
TEMPERATURE (°C)	14.2	14.3	13.0	13.4							
SPEC. COND. (mS/cm)	359.6	320.1	718	332.4							
ORP (mV)	11.6	13.8	64.1	65.7							
DISSOLVED OXYGEN (mg/l)	8.72	8.54	9.94	11.19							
TURBIDITY (NTU)	96.43	94.93	138.62	102.43							
DEPTH TO WATER (btor)	22.9	21.6	22.1	22.3							
TIME	0800	0900	1200	1400							

COMMENTS:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Nest offsitewell Site: NEST Well I.D.: OW-1

Date: 5.30.25 Sampling Personnel: J. Hull Company: BES

Purging/Sampling Device: Parastaltic pump Tubing Type: HDPE/Silicon Pump/Tubing Inlet Location: 30'

Measuring Point: TOP WELL CASING Initial Depth to Water: 22.9 Depth to Well Bottom: 31.4 Well Diameter: 2 in Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.445 Estimated Purge Volume (liters): ~~30~~ gallons

Sample ID: OW-1 Resample Sample Time: 1600 QA/QC:

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE ~~(ml/min.)~~	DEPTH TO WATER (btor)
1430	7.59	15.2	453.4	9.70	26.84	5.0		22.9
1450	9.48	15.96	6989	10.14	17.96	40.8		22.1
1520	7.75	15.3	6993	10.35	25.48	-44.0		22.3
1545	7.67	16.3	6903	9.61	26.20	-34.6		21.8
1600	7.73	15.9	6571	9.70	26.84	-159.8		22.5
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LAB DATA

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Alexis Palumbo-Compton
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 4/23/2025 11:40:38 AM

JOB DESCRIPTION

The Nest

JOB NUMBER

200-77744-1

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington VT 05403

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 TestAmerica Project Manager.

Authorization

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Authorized for release by
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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77744-1
Project/Site: The Nest

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
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.
U	Indicates the analyte was analyzed for but not detected.

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: 200-77744-1 Eurofins Burlington

Job Narrative
200-77744-1

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 4/17/2025 10:35 AM. Unless otherwise noted below, the sample arrived in good condition.

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: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77744-1
Project/Site: The Nest

Client Sample ID: RI VP1
Lab Sample ID: 200-77744-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	290		24	15	ug/m3	20		TO-15	Total/NA
1,3-Butadiene	2.4	J	8.8	1.8	ug/m3	20		TO-15	Total/NA
Trichlorofluoromethane	12	J	22	8.7	ug/m3	20		TO-15	Total/NA
Acetone	3000	E	240	90	ug/m3	20		TO-15	Total/NA
Carbon disulfide	11	J	31	11	ug/m3	20		TO-15	Total/NA
n-Hexane	30	J	35	11	ug/m3	20		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	6000	E	29	8.3	ug/m3	20		TO-15	Total/NA
Chloroform	22		20	5.8	ug/m3	20		TO-15	Total/NA
Cyclohexane	39		14	3.6	ug/m3	20		TO-15	Total/NA
Benzene	12	J	13	3.3	ug/m3	20		TO-15	Total/NA
n-Heptane	45		16	7.0	ug/m3	20		TO-15	Total/NA
Toluene	15		15	4.1	ug/m3	20		TO-15	Total/NA
Tetrachloroethene	51		27	4.9	ug/m3	20		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	200		41	16	ug/m3	20		TO-15	Total/NA
Ethylbenzene	4.6	J	17	4.4	ug/m3	20		TO-15	Total/NA
m,p-Xylene	15	J	43	1.2	ug/m3	20		TO-15	Total/NA
n-Butane - DL	280	D	120	74	ug/m3	100		TO-15	Total/NA
Acetone - DL	2900	D	1200	450	ug/m3	100		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	5600	D	150	41	ug/m3	100		TO-15	Total/NA
Cyclohexane - DL	40	J D	69	18	ug/m3	100		TO-15	Total/NA
n-Heptane - DL	42	J D	82	35	ug/m3	100		TO-15	Total/NA
Tetrachloroethene - DL	49	J D	140	24	ug/m3	100		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone) - DL	170	J D	200	82	ug/m3	100		TO-15	Total/NA
m,p-Xylene - DL	12	J D	220	6.1	ug/m3	100		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	120		10	6.2	ppb v/v	20		TO-15	Total/NA
1,3-Butadiene	1.1	J	4.0	0.80	ppb v/v	20		TO-15	Total/NA
Trichlorofluoromethane	2.1	J	4.0	1.5	ppb v/v	20		TO-15	Total/NA
Acetone	1300	E	100	38	ppb v/v	20		TO-15	Total/NA
Carbon disulfide	3.7	J	10	3.6	ppb v/v	20		TO-15	Total/NA
n-Hexane	8.7	J	10	3.2	ppb v/v	20		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	2000	E	10	2.8	ppb v/v	20		TO-15	Total/NA
Chloroform	4.5		4.0	1.2	ppb v/v	20		TO-15	Total/NA
Cyclohexane	11		4.0	1.0	ppb v/v	20		TO-15	Total/NA
Benzene	3.8	J	4.0	1.0	ppb v/v	20		TO-15	Total/NA
n-Heptane	11		4.0	1.7	ppb v/v	20		TO-15	Total/NA
Toluene	4.0		4.0	1.1	ppb v/v	20		TO-15	Total/NA
Tetrachloroethene	7.5		4.0	0.72	ppb v/v	20		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	50		10	4.0	ppb v/v	20		TO-15	Total/NA
Ethylbenzene	1.1	J	4.0	1.0	ppb v/v	20		TO-15	Total/NA
m,p-Xylene	3.4	J	10	0.28	ppb v/v	20		TO-15	Total/NA
n-Butane - DL	120	D	50	31	ppb v/v	100		TO-15	Total/NA
Acetone - DL	1200	D	500	190	ppb v/v	100		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	1900	D	50	14	ppb v/v	100		TO-15	Total/NA
Cyclohexane - DL	12	J D	20	5.2	ppb v/v	100		TO-15	Total/NA
n-Heptane - DL	10	J D	20	8.6	ppb v/v	100		TO-15	Total/NA
Tetrachloroethene - DL	7.2	J D	20	3.6	ppb v/v	100		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone) - DL	40	J D	50	20	ppb v/v	100		TO-15	Total/NA
m,p-Xylene - DL	2.7	J D	50	1.4	ppb v/v	100		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77744-1
Project/Site: The Nest

Client Sample ID: RI VP1
Lab Sample ID: 200-77744-1

Date Collected: 04/15/25 12:30
Matrix: Air
Date Received: 04/17/25 10:35
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	49	U	49	22	ug/m3			04/21/25 22:50	20
Chlorodifluoromethane	35	U	35	25	ug/m3			04/21/25 22:50	20
1,2-Dichlorotetrafluoroethane	28	U	28	11	ug/m3			04/21/25 22:50	20
Chloromethane	21	U	21	14	ug/m3			04/21/25 22:50	20
n-Butane	**290**		24	15	ug/m3			04/21/25 22:50	20
Vinyl chloride	4.0	U	4.0	1.5	ug/m3			04/21/25 22:50	20
1,3-Butadiene	**2.4**	**J**	8.8	1.8	ug/m3			04/21/25 22:50	20
Bromomethane	16	U	16	4.8	ug/m3			04/21/25 22:50	20
Chloroethane	26	U	26	8.4	ug/m3			04/21/25 22:50	20
Bromoethene(Vinyl Bromide)	17	U	17	4.2	ug/m3			04/21/25 22:50	20
Trichlorofluoromethane	**12**	**J**	22	8.7	ug/m3			04/21/25 22:50	20
1,1,2-Trichlorotrifluoroethane	31	U	31	8.7	ug/m3			04/21/25 22:50	20
1,1-Dichloroethene	4.0	U	4.0	2.8	ug/m3			04/21/25 22:50	20
Acetone	**3000**	**E**	240	90	ug/m3			04/21/25 22:50	20
Isopropyl alcohol	250	U	250	110	ug/m3			04/21/25 22:50	20
Carbon disulfide	**11**	**J**	31	11	ug/m3			04/21/25 22:50	20
3-Chloropropene	31	U	31	5.1	ug/m3			04/21/25 22:50	20
Methylene Chloride	35	U	35	13	ug/m3			04/21/25 22:50	20
tert-Butyl alcohol	300	U	300	97	ug/m3			04/21/25 22:50	20
Methyl tert-butyl ether	14	U	14	4.8	ug/m3			04/21/25 22:50	20
trans-1,2-Dichloroethene	16	U	16	1.6	ug/m3			04/21/25 22:50	20
n-Hexane	**30**	**J**	35	11	ug/m3			04/21/25 22:50	20
1,1-Dichloroethane	16	U	16	1.5	ug/m3			04/21/25 22:50	20
Methyl Ethyl Ketone (2-Butanone)	**6000**	**E**	29	8.3	ug/m3			04/21/25 22:50	20
cis-1,2-Dichloroethene	4.0	U	4.0	2.5	ug/m3			04/21/25 22:50	20
Chloroform	**22**		20	5.8	ug/m3			04/21/25 22:50	20
Tetrahydrofuran	290	U	290	100	ug/m3			04/21/25 22:50	20
1,1,1-Trichloroethane	22	U	22	8.0	ug/m3			04/21/25 22:50	20
Cyclohexane	**39**		14	3.6	ug/m3			04/21/25 22:50	20
Carbon tetrachloride	4.4	U	4.4	3.0	ug/m3			04/21/25 22:50	20
2,2,4-Trimethylpentane	19	U	19	6.6	ug/m3			04/21/25 22:50	20
Benzene	**12**	**J**	13	3.3	ug/m3			04/21/25 22:50	20
1,2-Dichloroethane	16	U	16	6.0	ug/m3			04/21/25 22:50	20
n-Heptane	**45**		16	7.0	ug/m3			04/21/25 22:50	20
Trichloroethene	4.0	U	4.0	3.1	ug/m3			04/21/25 22:50	20
Methyl methacrylate	41	U	41	11	ug/m3			04/21/25 22:50	20
1,2-Dichloropropane	18	U	18	5.1	ug/m3			04/21/25 22:50	20
1,4-Dioxane	360	U	360	14	ug/m3			04/21/25 22:50	20
Bromodichloromethane	27	U	27	7.8	ug/m3			04/21/25 22:50	20
cis-1,3-Dichloropropene	18	U	18	5.1	ug/m3			04/21/25 22:50	20
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41	U	41	16	ug/m3			04/21/25 22:50	20
Toluene	**15**		15	4.1	ug/m3			04/21/25 22:50	20
trans-1,3-Dichloropropene	18	U	18	5.6	ug/m3			04/21/25 22:50	20
1,1,2-Trichloroethane	22	U	22	5.8	ug/m3			04/21/25 22:50	20
Tetrachloroethene	**51**		27	4.9	ug/m3			04/21/25 22:50	20
Methyl Butyl Ketone (2-Hexanone)	**200**		41	16	ug/m3			04/21/25 22:50	20
Dibromochloromethane	34	U	34	9.0	ug/m3			04/21/25 22:50	20
1,2-Dibromoethane	31	U	31	6.9	ug/m3			04/21/25 22:50	20

Client Sample ID: RI VP1
Lab Sample ID: 200-77744-1
Date Collected: 04/15/25 12:30
Matrix: Air
Date Received: 04/17/25 10:35
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	18	U	18	4.3	ug/m3			04/21/25 22:50	20
Ethylbenzene	**4.6**	**J**	17	4.4	ug/m3			04/21/25 22:50	20
m,p-Xylene	**15**	**J**	43	1.2	ug/m3			04/21/25 22:50	20
o-Xylene	17	U	17	6.0	ug/m3			04/21/25 22:50	20
Styrene	17	U	17	4.8	ug/m3			04/21/25 22:50	20
Bromoform	41	U	41	12	ug/m3			04/21/25 22:50	20
Cumene	20	U	20	7.1	ug/m3			04/21/25 22:50	20
1,1,2,2-Tetrachloroethane	27	U	27	8.4	ug/m3			04/21/25 22:50	20
n-Propylbenzene	20	U	20	6.1	ug/m3			04/21/25 22:50	20
4-Ethyltoluene	20	U	20	6.7	ug/m3			04/21/25 22:50	20
1,3,5-Trimethylbenzene	20	U	20	6.7	ug/m3			04/21/25 22:50	20
2-Chlorotoluene	21	U	21	6.0	ug/m3			04/21/25 22:50	20
tert-Butylbenzene	22	U	22	7.7	ug/m3			04/21/25 22:50	20
1,2,4-Trimethylbenzene	20	U	20	8.1	ug/m3			04/21/25 22:50	20
sec-Butylbenzene	22	U	22	7.9	ug/m3			04/21/25 22:50	20
4-Isopropyltoluene	22	U	22	8.6	ug/m3			04/21/25 22:50	20
1,3-Dichlorobenzene	24	U	24	7.6	ug/m3			04/21/25 22:50	20
1,4-Dichlorobenzene	24	U	24	8.4	ug/m3			04/21/25 22:50	20
Benzyl chloride	21	U	21	7.7	ug/m3			04/21/25 22:50	20
n-Butylbenzene	22	U	22	7.7	ug/m3			04/21/25 22:50	20
1,2-Dichlorobenzene	24	U	24	7.9	ug/m3			04/21/25 22:50	20
1,2,4-Trichlorobenzene	74	U	74	45	ug/m3			04/21/25 22:50	20
Hexachlorobutadiene	43	U	43	17	ug/m3			04/21/25 22:50	20
Naphthalene	40	U	40	12	ug/m3			04/21/25 22:50	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	10	U	10	4.4	ppb v/v			04/21/25 22:50	20
Chlorodifluoromethane	10	U	10	7.2	ppb v/v			04/21/25 22:50	20
1,2-Dichlorotetrafluoroethane	4.0	U	4.0	1.5	ppb v/v			04/21/25 22:50	20
Chloromethane	10	U	10	6.6	ppb v/v			04/21/25 22:50	20
n-Butane	**120**		10	6.2	ppb v/v			04/21/25 22:50	20
Vinyl chloride	1.6	U	1.6	0.58	ppb v/v			04/21/25 22:50	20
1,3-Butadiene	**1.1**	**J**	4.0	0.80	ppb v/v			04/21/25 22:50	20
Bromomethane	4.0	U	4.0	1.2	ppb v/v			04/21/25 22:50	20
Chloroethane	10	U	10	3.2	ppb v/v			04/21/25 22:50	20
Bromoethene(Vinyl Bromide)	4.0	U	4.0	0.96	ppb v/v			04/21/25 22:50	20
Trichlorofluoromethane	**2.1**	**J**	4.0	1.5	ppb v/v			04/21/25 22:50	20
1,1,2-Trichlorotrifluoroethane	4.0	U	4.0	1.1	ppb v/v			04/21/25 22:50	20
1,1-Dichloroethene	1.0	U	1.0	0.70	ppb v/v			04/21/25 22:50	20
Acetone	**1300**	**E**	100	38	ppb v/v			04/21/25 22:50	20
Isopropyl alcohol	100	U	100	44	ppb v/v			04/21/25 22:50	20
Carbon disulfide	**3.7**	**J**	10	3.6	ppb v/v			04/21/25 22:50	20
3-Chloropropene	10	U	10	1.6	ppb v/v			04/21/25 22:50	20
Methylene Chloride	10	U	10	3.8	ppb v/v			04/21/25 22:50	20
tert-Butyl alcohol	100	U	100	32	ppb v/v			04/21/25 22:50	20
Methyl tert-butyl ether	4.0	U	4.0	1.3	ppb v/v			04/21/25 22:50	20
trans-1,2-Dichloroethene	4.0	U	4.0	0.40	ppb v/v			04/21/25 22:50	20
n-Hexane	**8.7**	**J**	10	3.2	ppb v/v			04/21/25 22:50	20
1,1-Dichloroethane	4.0	U	4.0	0.36	ppb v/v			04/21/25 22:50	20

Client Sample ID: RI VP1
Lab Sample ID: 200-77744-1
Date Collected: 04/15/25 12:30
Matrix: Air
Date Received: 04/17/25 10:35
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)	**2000**	**E**	10	2.8	ppb v/v			04/21/25 22:50	20
cis-1,2-Dichloroethene	1.0	U	1.0	0.64	ppb v/v			04/21/25 22:50	20
Chloroform	**4.5**		4.0	1.2	ppb v/v			04/21/25 22:50	20
Tetrahydrofuran	100	U	100	34	ppb v/v			04/21/25 22:50	20
1,1,1-Trichloroethane	4.0	U	4.0	1.5	ppb v/v			04/21/25 22:50	20
Cyclohexane	**11**		4.0	1.0	ppb v/v			04/21/25 22:50	20
Carbon tetrachloride	0.70	U	0.70	0.48	ppb v/v			04/21/25 22:50	20
2,2,4-Trimethylpentane	4.0	U	4.0	1.4	ppb v/v			04/21/25 22:50	20
Benzene	**3.8**	**J**	4.0	1.0	ppb v/v			04/21/25 22:50	20
1,2-Dichloroethane	4.0	U	4.0	1.5	ppb v/v			04/21/25 22:50	20
n-Heptane	**11**		4.0	1.7	ppb v/v			04/21/25 22:50	20
Trichloroethene	0.74	U	0.74	0.58	ppb v/v			04/21/25 22:50	20
Methyl methacrylate	10	U	10	2.6	ppb v/v			04/21/25 22:50	20
1,2-Dichloropropane	4.0	U	4.0	1.1	ppb v/v			04/21/25 22:50	20
1,4-Dioxane	100	U	100	3.8	ppb v/v			04/21/25 22:50	20
Bromodichloromethane	4.0	U	4.0	1.2	ppb v/v			04/21/25 22:50	20
cis-1,3-Dichloropropene	4.0	U	4.0	1.1	ppb v/v			04/21/25 22:50	20
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	U	10	3.8	ppb v/v			04/21/25 22:50	20
Toluene	**4.0**		4.0	1.1	ppb v/v			04/21/25 22:50	20
trans-1,3-Dichloropropene	4.0	U	4.0	1.2	ppb v/v			04/21/25 22:50	20
1,1,2-Trichloroethane	4.0	U	4.0	1.1	ppb v/v			04/21/25 22:50	20
Tetrachloroethene	**7.5**		4.0	0.72	ppb v/v			04/21/25 22:50	20
Methyl Butyl Ketone (2-Hexanone)	**50**		10	4.0	ppb v/v			04/21/25 22:50	20
Dibromochloromethane	4.0	U	4.0	1.1	ppb v/v			04/21/25 22:50	20
1,2-Dibromoethane	4.0	U	4.0	0.90	ppb v/v			04/21/25 22:50	20
Chlorobenzene	4.0	U	4.0	0.94	ppb v/v			04/21/25 22:50	20
Ethylbenzene	**1.1**	**J**	4.0	1.0	ppb v/v			04/21/25 22:50	20
m,p-Xylene	**3.4**	**J**	10	0.28	ppb v/v			04/21/25 22:50	20
o-Xylene	4.0	U	4.0	1.4	ppb v/v			04/21/25 22:50	20
Styrene	4.0	U	4.0	1.1	ppb v/v			04/21/25 22:50	20
Bromoform	4.0	U	4.0	1.2	ppb v/v			04/21/25 22:50	20
Cumene	4.0	U	4.0	1.4	ppb v/v			04/21/25 22:50	20
1,1,2,2-Tetrachloroethane	4.0	U	4.0	1.2	ppb v/v			04/21/25 22:50	20
n-Propylbenzene	4.0	U	4.0	1.2	ppb v/v			04/21/25 22:50	20
4-Ethyltoluene	4.0	U	4.0	1.4	ppb v/v			04/21/25 22:50	20
1,3,5-Trimethylbenzene	4.0	U	4.0	1.4	ppb v/v			04/21/25 22:50	20
2-Chlorotoluene	4.0	U	4.0	1.2	ppb v/v			04/21/25 22:50	20
tert-Butylbenzene	4.0	U	4.0	1.4	ppb v/v			04/21/25 22:50	20
1,2,4-Trimethylbenzene	4.0	U	4.0	1.6	ppb v/v			04/21/25 22:50	20
sec-Butylbenzene	4.0	U	4.0	1.4	ppb v/v			04/21/25 22:50	20
4-Isopropyltoluene	4.0	U	4.0	1.6	ppb v/v			04/21/25 22:50	20
1,3-Dichlorobenzene	4.0	U	4.0	1.3	ppb v/v			04/21/25 22:50	20
1,4-Dichlorobenzene	4.0	U	4.0	1.4	ppb v/v			04/21/25 22:50	20
Benzyl chloride	4.0	U	4.0	1.5	ppb v/v			04/21/25 22:50	20
n-Butylbenzene	4.0	U	4.0	1.4	ppb v/v			04/21/25 22:50	20
1,2-Dichlorobenzene	4.0	U	4.0	1.3	ppb v/v			04/21/25 22:50	20
1,2,4-Trichlorobenzene	10	U	10	6.0	ppb v/v			04/21/25 22:50	20
Hexachlorobutadiene	4.0	U	4.0	1.6	ppb v/v			04/21/25 22:50	20

Client Sample ID: RI VP1
Lab Sample ID: 200-77744-1

Date Collected: 04/15/25 12:30
Matrix: Air
Date Received: 04/17/25 10:35
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	7.6	U	7.6	2.2	ppb v/v			04/21/25 22:50	20

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	250	U	250	110	ug/m3			04/21/25 23:42	100
Chlorodifluoromethane	180	U	180	130	ug/m3			04/21/25 23:42	100
1,2-Dichlorotetrafluoroethane	140	U	140	53	ug/m3			04/21/25 23:42	100
Chloromethane	100	U	100	68	ug/m3			04/21/25 23:42	100
n-Butane	**280**	**D**	120	74	ug/m3			04/21/25 23:42	100
Vinyl chloride	20	U	20	7.4	ug/m3			04/21/25 23:42	100
1,3-Butadiene	44	U	44	8.8	ug/m3			04/21/25 23:42	100
Bromomethane	78	U	78	24	ug/m3			04/21/25 23:42	100
Chloroethane	130	U	130	42	ug/m3			04/21/25 23:42	100
Bromoethene(Vinyl Bromide)	87	U	87	21	ug/m3			04/21/25 23:42	100
Trichlorofluoromethane	110	U	110	43	ug/m3			04/21/25 23:42	100
1,1,2-Trichlorotrifluoroethane	150	U	150	44	ug/m3			04/21/25 23:42	100
1,1-Dichloroethene	20	U	20	14	ug/m3			04/21/25 23:42	100
Acetone	**2900**	**D**	1200	450	ug/m3			04/21/25 23:42	100
Isopropyl alcohol	1200	U	1200	540	ug/m3			04/21/25 23:42	100
Carbon disulfide	160	U	160	56	ug/m3			04/21/25 23:42	100
3-Chloropropene	160	U	160	25	ug/m3			04/21/25 23:42	100
Methylene Chloride	170	U	170	66	ug/m3			04/21/25 23:42	100
tert-Butyl alcohol	1500	U	1500	490	ug/m3			04/21/25 23:42	100
Methyl tert-butyl ether	72	U	72	24	ug/m3			04/21/25 23:42	100
trans-1,2-Dichloroethene	79	U	79	7.9	ug/m3			04/21/25 23:42	100
n-Hexane	180	U	180	56	ug/m3			04/21/25 23:42	100
1,1-Dichloroethane	81	U	81	7.3	ug/m3			04/21/25 23:42	100
Methyl Ethyl Ketone (2-Butanone)	**5600**	**D**	150	41	ug/m3			04/21/25 23:42	100
cis-1,2-Dichloroethene	20	U	20	13	ug/m3			04/21/25 23:42	100
Chloroform	98	U	98	29	ug/m3			04/21/25 23:42	100
Tetrahydrofuran	1500	U	1500	500	ug/m3			04/21/25 23:42	100
1,1,1-Trichloroethane	110	U	110	40	ug/m3			04/21/25 23:42	100
Cyclohexane	**40**	**J D**	69	18	ug/m3			04/21/25 23:42	100
Carbon tetrachloride	22	U	22	15	ug/m3			04/21/25 23:42	100
2,2,4-Trimethylpentane	93	U	93	33	ug/m3			04/21/25 23:42	100
Benzene	64	U	64	16	ug/m3			04/21/25 23:42	100
1,2-Dichloroethane	81	U	81	30	ug/m3			04/21/25 23:42	100
n-Heptane	**42**	**J D**	82	35	ug/m3			04/21/25 23:42	100
Trichloroethene	20	U	20	16	ug/m3			04/21/25 23:42	100
Methyl methacrylate	200	U	200	53	ug/m3			04/21/25 23:42	100
1,2-Dichloropropane	92	U	92	25	ug/m3			04/21/25 23:42	100
1,4-Dioxane	1800	U	1800	68	ug/m3			04/21/25 23:42	100
Bromodichloromethane	130	U	130	39	ug/m3			04/21/25 23:42	100
cis-1,3-Dichloropropene	91	U	91	25	ug/m3			04/21/25 23:42	100
4-Methyl-2-pentanone (Methyl isobutyl ketone)	200	U	200	78	ug/m3			04/21/25 23:42	100
Toluene	75	U	75	20	ug/m3			04/21/25 23:42	100
trans-1,3-Dichloropropene	91	U	91	28	ug/m3			04/21/25 23:42	100
1,1,2-Trichloroethane	110	U	110	29	ug/m3			04/21/25 23:42	100

Client Sample ID: RI VP1
Lab Sample ID: 200-77744-1
Date Collected: 04/15/25 12:30
Matrix: Air
Date Received: 04/17/25 10:35
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	**49**	**J D**	140	24	ug/m3			04/21/25 23:42	100
Methyl Butyl Ketone (2-Hexanone)	**170**	**J D**	200	82	ug/m3			04/21/25 23:42	100
Dibromochloromethane	170	U	170	45	ug/m3			04/21/25 23:42	100
1,2-Dibromoethane	150	U	150	35	ug/m3			04/21/25 23:42	100
Chlorobenzene	92	U	92	22	ug/m3			04/21/25 23:42	100
Ethylbenzene	87	U	87	22	ug/m3			04/21/25 23:42	100
m,p-Xylene	**12**	**J D**	220	6.1	ug/m3			04/21/25 23:42	100
o-Xylene	87	U	87	30	ug/m3			04/21/25 23:42	100
Styrene	85	U	85	24	ug/m3			04/21/25 23:42	100
Bromoform	210	U	210	60	ug/m3			04/21/25 23:42	100
Cumene	98	U	98	35	ug/m3			04/21/25 23:42	100
1,1,2,2-Tetrachloroethane	140	U	140	42	ug/m3			04/21/25 23:42	100
n-Propylbenzene	98	U	98	30	ug/m3			04/21/25 23:42	100
4-Ethyltoluene	98	U	98	33	ug/m3			04/21/25 23:42	100
1,3,5-Trimethylbenzene	98	U	98	33	ug/m3			04/21/25 23:42	100
2-Chlorotoluene	100	U	100	30	ug/m3			04/21/25 23:42	100
tert-Butylbenzene	110	U	110	38	ug/m3			04/21/25 23:42	100
1,2,4-Trimethylbenzene	98	U	98	40	ug/m3			04/21/25 23:42	100
sec-Butylbenzene	110	U	110	40	ug/m3			04/21/25 23:42	100
4-Isopropyltoluene	110	U	110	43	ug/m3			04/21/25 23:42	100
1,3-Dichlorobenzene	120	U	120	38	ug/m3			04/21/25 23:42	100
1,4-Dichlorobenzene	120	U	120	42	ug/m3			04/21/25 23:42	100
Benzyl chloride	100	U	100	38	ug/m3			04/21/25 23:42	100
n-Butylbenzene	110	U	110	38	ug/m3			04/21/25 23:42	100
1,2-Dichlorobenzene	120	U	120	40	ug/m3			04/21/25 23:42	100
1,2,4-Trichlorobenzene	370	U	370	220	ug/m3			04/21/25 23:42	100
Hexachlorobutadiene	210	U	210	83	ug/m3			04/21/25 23:42	100
Naphthalene	200	U	200	58	ug/m3			04/21/25 23:42	100

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	50	U	50	22	ppb v/v			04/21/25 23:42	100
Chlorodifluoromethane	50	U	50	36	ppb v/v			04/21/25 23:42	100
1,2-Dichlorotetrafluoroethane	20	U	20	7.6	ppb v/v			04/21/25 23:42	100
Chloromethane	50	U	50	33	ppb v/v			04/21/25 23:42	100
n-Butane	**120**	**D**	50	31	ppb v/v			04/21/25 23:42	100
Vinyl chloride	7.8	U	7.8	2.9	ppb v/v			04/21/25 23:42	100
1,3-Butadiene	20	U	20	4.0	ppb v/v			04/21/25 23:42	100
Bromomethane	20	U	20	6.2	ppb v/v			04/21/25 23:42	100
Chloroethane	50	U	50	16	ppb v/v			04/21/25 23:42	100
Bromoethene(Vinyl Bromide)	20	U	20	4.8	ppb v/v			04/21/25 23:42	100
Trichlorofluoromethane	20	U	20	7.7	ppb v/v			04/21/25 23:42	100
1,1,2-Trichlorotrifluoroethane	20	U	20	5.7	ppb v/v			04/21/25 23:42	100
1,1-Dichloroethene	5.0	U	5.0	3.5	ppb v/v			04/21/25 23:42	100
Acetone	**1200**	**D**	500	190	ppb v/v			04/21/25 23:42	100
Isopropyl alcohol	500	U	500	220	ppb v/v			04/21/25 23:42	100
Carbon disulfide	50	U	50	18	ppb v/v			04/21/25 23:42	100
3-Chloropropene	50	U	50	8.1	ppb v/v			04/21/25 23:42	100
Methylene Chloride	50	U	50	19	ppb v/v			04/21/25 23:42	100
tert-Butyl alcohol	500	U	500	160	ppb v/v			04/21/25 23:42	100

Client Sample ID: RI VP1
Lab Sample ID: 200-77744-1
Date Collected: 04/15/25 12:30
Matrix: Air
Date Received: 04/17/25 10:35
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	20	U	20	6.6	ppb v/v			04/21/25 23:42	100
trans-1,2-Dichloroethene	20	U	20	2.0	ppb v/v			04/21/25 23:42	100
n-Hexane	50	U	50	16	ppb v/v			04/21/25 23:42	100
1,1-Dichloroethane	20	U	20	1.8	ppb v/v			04/21/25 23:42	100
Methyl Ethyl Ketone (2-Butanone)	**1900**	**D**	50	14	ppb v/v			04/21/25 23:42	100
cis-1,2-Dichloroethene	5.0	U	5.0	3.2	ppb v/v			04/21/25 23:42	100
Chloroform	20	U	20	5.9	ppb v/v			04/21/25 23:42	100
Tetrahydrofuran	500	U	500	170	ppb v/v			04/21/25 23:42	100
1,1,1-Trichloroethane	20	U	20	7.3	ppb v/v			04/21/25 23:42	100
Cyclohexane	**12**	**J D**	20	5.2	ppb v/v			04/21/25 23:42	100
Carbon tetrachloride	3.5	U	3.5	2.4	ppb v/v			04/21/25 23:42	100
2,2,4-Trimethylpentane	20	U	20	7.1	ppb v/v			04/21/25 23:42	100
Benzene	20	U	20	5.1	ppb v/v			04/21/25 23:42	100
1,2-Dichloroethane	20	U	20	7.4	ppb v/v			04/21/25 23:42	100
n-Heptane	**10**	**J D**	20	8.6	ppb v/v			04/21/25 23:42	100
Trichloroethene	3.7	U	3.7	2.9	ppb v/v			04/21/25 23:42	100
Methyl methacrylate	50	U	50	13	ppb v/v			04/21/25 23:42	100
1,2-Dichloropropane	20	U	20	5.5	ppb v/v			04/21/25 23:42	100
1,4-Dioxane	500	U	500	19	ppb v/v			04/21/25 23:42	100
Bromodichloromethane	20	U	20	5.8	ppb v/v			04/21/25 23:42	100
cis-1,3-Dichloropropene	20	U	20	5.6	ppb v/v			04/21/25 23:42	100
4-Methyl-2-pentanone (Methyl isobutyl ketone)	50	U	50	19	ppb v/v			04/21/25 23:42	100
Toluene	20	U	20	5.4	ppb v/v			04/21/25 23:42	100
trans-1,3-Dichloropropene	20	U	20	6.2	ppb v/v			04/21/25 23:42	100
1,1,2-Trichloroethane	20	U	20	5.3	ppb v/v			04/21/25 23:42	100
Tetrachloroethene	**7.2**	**J D**	20	3.6	ppb v/v			04/21/25 23:42	100
Methyl Butyl Ketone (2-Hexanone)	**40**	**J D**	50	20	ppb v/v			04/21/25 23:42	100
Dibromochloromethane	20	U	20	5.3	ppb v/v			04/21/25 23:42	100
1,2-Dibromoethane	20	U	20	4.5	ppb v/v			04/21/25 23:42	100
Chlorobenzene	20	U	20	4.7	ppb v/v			04/21/25 23:42	100
Ethylbenzene	20	U	20	5.1	ppb v/v			04/21/25 23:42	100
m,p-Xylene	**2.7**	**J D**	50	1.4	ppb v/v			04/21/25 23:42	100
o-Xylene	20	U	20	6.9	ppb v/v			04/21/25 23:42	100
Styrene	20	U	20	5.6	ppb v/v			04/21/25 23:42	100
Bromoform	20	U	20	5.8	ppb v/v			04/21/25 23:42	100
Cumene	20	U	20	7.2	ppb v/v			04/21/25 23:42	100
1,1,2,2-Tetrachloroethane	20	U	20	6.1	ppb v/v			04/21/25 23:42	100
n-Propylbenzene	20	U	20	6.2	ppb v/v			04/21/25 23:42	100
4-Ethyltoluene	20	U	20	6.8	ppb v/v			04/21/25 23:42	100
1,3,5-Trimethylbenzene	20	U	20	6.8	ppb v/v			04/21/25 23:42	100
2-Chlorotoluene	20	U	20	5.8	ppb v/v			04/21/25 23:42	100
tert-Butylbenzene	20	U	20	7.0	ppb v/v			04/21/25 23:42	100
1,2,4-Trimethylbenzene	20	U	20	8.2	ppb v/v			04/21/25 23:42	100
sec-Butylbenzene	20	U	20	7.2	ppb v/v			04/21/25 23:42	100
4-Isopropyltoluene	20	U	20	7.8	ppb v/v			04/21/25 23:42	100
1,3-Dichlorobenzene	20	U	20	6.3	ppb v/v			04/21/25 23:42	100
1,4-Dichlorobenzene	20	U	20	7.0	ppb v/v			04/21/25 23:42	100
Benzyl chloride	20	U	20	7.4	ppb v/v			04/21/25 23:42	100

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77744-1
Project/Site: The Nest

Client Sample ID: RI VP1
Lab Sample ID: 200-77744-1
Date Collected: 04/15/25 12:30
Matrix: Air
Date Received: 04/17/25 10:35
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	20	U	20	7.0	ppb v/v			04/21/25 23:42	100
1,2-Dichlorobenzene	20	U	20	6.6	ppb v/v			04/21/25 23:42	100
1,2,4-Trichlorobenzene	50	U	50	30	ppb v/v			04/21/25 23:42	100
Hexachlorobutadiene	20	U	20	7.8	ppb v/v			04/21/25 23:42	100
Naphthalene	38	U	38	11	ppb v/v			04/21/25 23:42	100

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-215366/5
Matrix: Air
Analysis Batch: 215366

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	1.1	ug/m3			04/21/25 12:31	1
Chlorodifluoromethane	1.8	U	1.8	1.3	ug/m3			04/21/25 12:31	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.53	ug/m3			04/21/25 12:31	1
Chloromethane	1.0	U	1.0	0.68	ug/m3			04/21/25 12:31	1
n-Butane	1.2	U	1.2	0.74	ug/m3			04/21/25 12:31	1
Vinyl chloride	0.20	U	0.20	0.074	ug/m3			04/21/25 12:31	1
1,3-Butadiene	0.44	U	0.44	0.088	ug/m3			04/21/25 12:31	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			04/21/25 12:31	1
Chloroethane	1.3	U	1.3	0.42	ug/m3			04/21/25 12:31	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.21	ug/m3			04/21/25 12:31	1
Trichlorofluoromethane	1.1	U	1.1	0.43	ug/m3			04/21/25 12:31	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.44	ug/m3			04/21/25 12:31	1
1,1-Dichloroethene	0.20	U	0.20	0.14	ug/m3			04/21/25 12:31	1
Acetone	12	U	12	4.5	ug/m3			04/21/25 12:31	1
Isopropyl alcohol	12	U	12	5.4	ug/m3			04/21/25 12:31	1
Carbon disulfide	1.6	U	1.6	0.56	ug/m3			04/21/25 12:31	1
3-Chloropropene	1.6	U	1.6	0.25	ug/m3			04/21/25 12:31	1
Methylene Chloride	1.7	U	1.7	0.66	ug/m3			04/21/25 12:31	1
tert-Butyl alcohol	15	U	15	4.9	ug/m3			04/21/25 12:31	1
Methyl tert-butyl ether	0.72	U	0.72	0.24	ug/m3			04/21/25 12:31	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.079	ug/m3			04/21/25 12:31	1
n-Hexane	1.8	U	1.8	0.56	ug/m3			04/21/25 12:31	1
1,1-Dichloroethane	0.81	U	0.81	0.073	ug/m3			04/21/25 12:31	1
Methyl Ethyl Ketone (2-Butanone)	1.5	U	1.5	0.41	ug/m3			04/21/25 12:31	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			04/21/25 12:31	1
Chloroform	0.98	U	0.98	0.29	ug/m3			04/21/25 12:31	1
Tetrahydrofuran	15	U	15	5.0	ug/m3			04/21/25 12:31	1
1,1,1-Trichloroethane	1.1	U	1.1	0.40	ug/m3			04/21/25 12:31	1
Cyclohexane	0.69	U	0.69	0.18	ug/m3			04/21/25 12:31	1
Carbon tetrachloride	0.22	U	0.22	0.15	ug/m3			04/21/25 12:31	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.33	ug/m3			04/21/25 12:31	1
Benzene	0.64	U	0.64	0.16	ug/m3			04/21/25 12:31	1
1,2-Dichloroethane	0.81	U	0.81	0.30	ug/m3			04/21/25 12:31	1
n-Heptane	0.82	U	0.82	0.35	ug/m3			04/21/25 12:31	1
Trichloroethene	0.20	U	0.20	0.16	ug/m3			04/21/25 12:31	1
Methyl methacrylate	2.0	U	2.0	0.53	ug/m3			04/21/25 12:31	1
1,2-Dichloropropane	0.92	U	0.92	0.25	ug/m3			04/21/25 12:31	1
1,4-Dioxane	18	U	18	0.68	ug/m3			04/21/25 12:31	1
Bromodichloromethane	1.3	U	1.3	0.39	ug/m3			04/21/25 12:31	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.25	ug/m3			04/21/25 12:31	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	0.78	ug/m3			04/21/25 12:31	1
Toluene	0.75	U	0.75	0.20	ug/m3			04/21/25 12:31	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.28	ug/m3			04/21/25 12:31	1
1,1,2-Trichloroethane	1.1	U	1.1	0.29	ug/m3			04/21/25 12:31	1
Tetrachloroethene	1.4	U	1.4	0.24	ug/m3			04/21/25 12:31	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			04/21/25 12:31	1
Dibromochloromethane	1.7	U	1.7	0.45	ug/m3			04/21/25 12:31	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			04/21/25 12:31	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215366/5
Matrix: Air
Analysis Batch: 215366

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.92	U	0.92	0.22	ug/m3			04/21/25 12:31	1
Ethylbenzene	0.87	U	0.87	0.22	ug/m3			04/21/25 12:31	1
m,p-Xylene	2.2	U	2.2	0.061	ug/m3			04/21/25 12:31	1
o-Xylene	0.87	U	0.87	0.30	ug/m3			04/21/25 12:31	1
Styrene	0.85	U	0.85	0.24	ug/m3			04/21/25 12:31	1
Bromoform	2.1	U	2.1	0.60	ug/m3			04/21/25 12:31	1
Cumene	0.98	U	0.98	0.35	ug/m3			04/21/25 12:31	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.42	ug/m3			04/21/25 12:31	1
n-Propylbenzene	0.98	U	0.98	0.30	ug/m3			04/21/25 12:31	1
4-Ethyltoluene	0.98	U	0.98	0.33	ug/m3			04/21/25 12:31	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.33	ug/m3			04/21/25 12:31	1
2-Chlorotoluene	1.0	U	1.0	0.30	ug/m3			04/21/25 12:31	1
tert-Butylbenzene	1.1	U	1.1	0.38	ug/m3			04/21/25 12:31	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.40	ug/m3			04/21/25 12:31	1
sec-Butylbenzene	1.1	U	1.1	0.40	ug/m3			04/21/25 12:31	1
4-Isopropyltoluene	1.1	U	1.1	0.43	ug/m3			04/21/25 12:31	1
1,3-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			04/21/25 12:31	1
1,4-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			04/21/25 12:31	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			04/21/25 12:31	1
n-Butylbenzene	1.1	U	1.1	0.38	ug/m3			04/21/25 12:31	1
1,2-Dichlorobenzene	1.2	U	1.2	0.40	ug/m3			04/21/25 12:31	1
1,2,4-Trichlorobenzene	3.7	U	3.7	2.2	ug/m3			04/21/25 12:31	1
Hexachlorobutadiene	2.1	U	2.1	0.83	ug/m3			04/21/25 12:31	1
Naphthalene	2.0	U	2.0	0.58	ug/m3			04/21/25 12:31	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.22	ppb v/v			04/21/25 12:31	1
Chlorodifluoromethane	0.50	U	0.50	0.36	ppb v/v			04/21/25 12:31	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.076	ppb v/v			04/21/25 12:31	1
Chloromethane	0.50	U	0.50	0.33	ppb v/v			04/21/25 12:31	1
n-Butane	0.50	U	0.50	0.31	ppb v/v			04/21/25 12:31	1
Vinyl chloride	0.078	U	0.078	0.029	ppb v/v			04/21/25 12:31	1
1,3-Butadiene	0.20	U	0.20	0.040	ppb v/v			04/21/25 12:31	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			04/21/25 12:31	1
Chloroethane	0.50	U	0.50	0.16	ppb v/v			04/21/25 12:31	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.048	ppb v/v			04/21/25 12:31	1
Trichlorofluoromethane	0.20	U	0.20	0.077	ppb v/v			04/21/25 12:31	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.057	ppb v/v			04/21/25 12:31	1
1,1-Dichloroethene	0.050	U	0.050	0.035	ppb v/v			04/21/25 12:31	1
Acetone	5.0	U	5.0	1.9	ppb v/v			04/21/25 12:31	1
Isopropyl alcohol	5.0	U	5.0	2.2	ppb v/v			04/21/25 12:31	1
Carbon disulfide	0.50	U	0.50	0.18	ppb v/v			04/21/25 12:31	1
3-Chloropropene	0.50	U	0.50	0.081	ppb v/v			04/21/25 12:31	1
Methylene Chloride	0.50	U	0.50	0.19	ppb v/v			04/21/25 12:31	1
tert-Butyl alcohol	5.0	U	5.0	1.6	ppb v/v			04/21/25 12:31	1
Methyl tert-butyl ether	0.20	U	0.20	0.066	ppb v/v			04/21/25 12:31	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.020	ppb v/v			04/21/25 12:31	1
n-Hexane	0.50	U	0.50	0.16	ppb v/v			04/21/25 12:31	1
1,1-Dichloroethane	0.20	U	0.20	0.018	ppb v/v			04/21/25 12:31	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215366/5
Matrix: Air
Analysis Batch: 215366

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)	0.50	U	0.50	0.14	ppb v/v			04/21/25 12:31	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.032	ppb v/v			04/21/25 12:31	1
Chloroform	0.20	U	0.20	0.059	ppb v/v			04/21/25 12:31	1
Tetrahydrofuran	5.0	U	5.0	1.7	ppb v/v			04/21/25 12:31	1
1,1,1-Trichloroethane	0.20	U	0.20	0.073	ppb v/v			04/21/25 12:31	1
Cyclohexane	0.20	U	0.20	0.052	ppb v/v			04/21/25 12:31	1
Carbon tetrachloride	0.035	U	0.035	0.024	ppb v/v			04/21/25 12:31	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.071	ppb v/v			04/21/25 12:31	1
Benzene	0.20	U	0.20	0.051	ppb v/v			04/21/25 12:31	1
1,2-Dichloroethane	0.20	U	0.20	0.074	ppb v/v			04/21/25 12:31	1
n-Heptane	0.20	U	0.20	0.086	ppb v/v			04/21/25 12:31	1
Trichloroethene	0.037	U	0.037	0.029	ppb v/v			04/21/25 12:31	1
Methyl methacrylate	0.50	U	0.50	0.13	ppb v/v			04/21/25 12:31	1
1,2-Dichloropropane	0.20	U	0.20	0.055	ppb v/v			04/21/25 12:31	1
1,4-Dioxane	5.0	U	5.0	0.19	ppb v/v			04/21/25 12:31	1
Bromodichloromethane	0.20	U	0.20	0.058	ppb v/v			04/21/25 12:31	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.056	ppb v/v			04/21/25 12:31	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.19	ppb v/v			04/21/25 12:31	1
Toluene	0.20	U	0.20	0.054	ppb v/v			04/21/25 12:31	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.062	ppb v/v			04/21/25 12:31	1
1,1,2-Trichloroethane	0.20	U	0.20	0.053	ppb v/v			04/21/25 12:31	1
Tetrachloroethene	0.20	U	0.20	0.036	ppb v/v			04/21/25 12:31	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			04/21/25 12:31	1
Dibromochloromethane	0.20	U	0.20	0.053	ppb v/v			04/21/25 12:31	1
1,2-Dibromoethane	0.20	U	0.20	0.045	ppb v/v			04/21/25 12:31	1
Chlorobenzene	0.20	U	0.20	0.047	ppb v/v			04/21/25 12:31	1
Ethylbenzene	0.20	U	0.20	0.051	ppb v/v			04/21/25 12:31	1
m,p-Xylene	0.50	U	0.50	0.014	ppb v/v			04/21/25 12:31	1
o-Xylene	0.20	U	0.20	0.069	ppb v/v			04/21/25 12:31	1
Styrene	0.20	U	0.20	0.056	ppb v/v			04/21/25 12:31	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			04/21/25 12:31	1
Cumene	0.20	U	0.20	0.072	ppb v/v			04/21/25 12:31	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.061	ppb v/v			04/21/25 12:31	1
n-Propylbenzene	0.20	U	0.20	0.062	ppb v/v			04/21/25 12:31	1
4-Ethyltoluene	0.20	U	0.20	0.068	ppb v/v			04/21/25 12:31	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.068	ppb v/v			04/21/25 12:31	1
2-Chlorotoluene	0.20	U	0.20	0.058	ppb v/v			04/21/25 12:31	1
tert-Butylbenzene	0.20	U	0.20	0.070	ppb v/v			04/21/25 12:31	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.082	ppb v/v			04/21/25 12:31	1
sec-Butylbenzene	0.20	U	0.20	0.072	ppb v/v			04/21/25 12:31	1
4-Isopropyltoluene	0.20	U	0.20	0.078	ppb v/v			04/21/25 12:31	1
1,3-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			04/21/25 12:31	1
1,4-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			04/21/25 12:31	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			04/21/25 12:31	1
n-Butylbenzene	0.20	U	0.20	0.070	ppb v/v			04/21/25 12:31	1
1,2-Dichlorobenzene	0.20	U	0.20	0.066	ppb v/v			04/21/25 12:31	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.30	ppb v/v			04/21/25 12:31	1
Hexachlorobutadiene	0.20	U	0.20	0.078	ppb v/v			04/21/25 12:31	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215366/5
Matrix: Air
Analysis Batch: 215366

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.38	U	0.38	0.11	ppb v/v			04/21/25 12:31	1

Lab Sample ID: LCS 200-215366/3
Matrix: Air
Analysis Batch: 215366

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	44.7		ug/m3		90	61 - 142
Chlorodifluoromethane	35.4	33.6		ug/m3		95	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	65.8		ug/m3		94	71 - 141
Chloromethane	20.6	19.6		ug/m3		95	56 - 141
n-Butane	23.8	23.1		ug/m3		97	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	36.9		ug/m3		95	72 - 124
Chloroethane	26.4	25.1		ug/m3		95	68 - 130
Bromoethene(Vinyl Bromide)	43.7	42.0		ug/m3		96	75 - 125
Trichlorofluoromethane	56.2	50.6		ug/m3		90	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	69.4		ug/m3		91	70 - 121
1,1-Dichloroethene	39.6	33.2		ug/m3		84	68 - 120
Acetone	23.7	22.9		ug/m3		97	54 - 154
Isopropyl alcohol	24.6	27.9		ug/m3		113	53 - 142
Carbon disulfide	31.1	28.4		ug/m3		91	71 - 138
3-Chloropropene	31.3	29.3		ug/m3		94	50 - 150
Methylene Chloride	34.7	31.9		ug/m3		92	59 - 137
tert-Butyl alcohol	30.3	27.4		ug/m3		90	66 - 132
Methyl tert-butyl ether	36.0	34.0		ug/m3		94	70 - 127
trans-1,2-Dichloroethene	39.6	39.0		ug/m3		98	69 - 137
n-Hexane	35.2	34.5		ug/m3		98	63 - 138
1,1-Dichloroethane	40.5	38.6		ug/m3		95	66 - 130
Methyl Ethyl Ketone (2-Butanone)	29.5	22.5		ug/m3		76	72 - 124
cis-1,2-Dichloroethene	39.6	36.2		ug/m3		91	72 - 121
Chloroform	48.8	45.0		ug/m3		92	73 - 124
Tetrahydrofuran	29.5	27.9		ug/m3		95	60 - 149
1,1,1-Trichloroethane	54.6	49.4		ug/m3		91	72 - 127
Cyclohexane	34.4	32.1		ug/m3		93	76 - 124
Carbon tetrachloride	62.9	56.0		ug/m3		89	71 - 133
2,2,4-Trimethylpentane	46.7	46.3		ug/m3		99	68 - 131
Benzene	31.9	30.4		ug/m3		95	73 - 119
1,2-Dichloroethane	40.5	38.1		ug/m3		94	68 - 135
n-Heptane	41.0	40.6		ug/m3		99	60 - 142
Trichloroethene	53.7	50.9		ug/m3		95	73 - 122
Methyl methacrylate	40.9	38.6		ug/m3		94	73 - 129
1,2-Dichloropropane	46.2	45.0		ug/m3		97	69 - 128
1,4-Dioxane	36.0	32.5		ug/m3		90	66 - 129
Bromodichloromethane	67.0	62.8		ug/m3		94	75 - 127
cis-1,3-Dichloropropene	45.4	43.3		ug/m3		96	74 - 125

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215366/3
Matrix: Air
Analysis Batch: 215366

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	40.4		ug/m3		99	58 - 144
Toluene	37.7	35.6		ug/m3		94	75 - 122
trans-1,3-Dichloropropene	45.4	47.1		ug/m3		104	74 - 128
1,1,2-Trichloroethane	54.6	52.9		ug/m3		97	75 - 126
Tetrachloroethene	67.8	64.3		ug/m3		95	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	42.0		ug/m3		102	57 - 143
Dibromochloromethane	85.2	76.8		ug/m3		90	73 - 125
1,2-Dibromoethane	76.8	71.8		ug/m3		94	78 - 122
Chlorobenzene	46.0	42.6		ug/m3		93	76 - 119
Ethylbenzene	43.4	41.3		ug/m3		95	74 - 122
m,p-Xylene	86.8	81.7		ug/m3		94	76 - 121
o-Xylene	43.4	41.0		ug/m3		95	73 - 123
Styrene	42.6	41.8		ug/m3		98	74 - 125
Bromoform	103	90.4		ug/m3		87	53 - 149
Cumene	49.1	45.7		ug/m3		93	73 - 123
1,1,2,2-Tetrachloroethane	68.6	65.5		ug/m3		95	74 - 126
n-Propylbenzene	49.1	46.9		ug/m3		95	73 - 127
4-Ethyltoluene	49.2	46.7		ug/m3		95	75 - 129
1,3,5-Trimethylbenzene	49.2	46.5		ug/m3		95	72 - 126
2-Chlorotoluene	51.8	48.6		ug/m3		94	74 - 126
tert-Butylbenzene	54.9	49.3		ug/m3		90	71 - 125
1,2,4-Trimethylbenzene	49.2	45.7		ug/m3		93	71 - 129
sec-Butylbenzene	54.9	50.8		ug/m3		93	70 - 128
4-Isopropyltoluene	54.9	49.4		ug/m3		90	68 - 130
1,3-Dichlorobenzene	60.1	54.9		ug/m3		91	69 - 131
1,4-Dichlorobenzene	60.1	55.3		ug/m3		92	67 - 132
Benzyl chloride	51.8	47.9		ug/m3		93	60 - 136
n-Butylbenzene	54.9	52.0		ug/m3		95	65 - 137
1,2-Dichlorobenzene	60.1	54.3		ug/m3		90	68 - 129
1,2,4-Trichlorobenzene	74.2	77.0		ug/m3		104	50 - 150
Hexachlorobutadiene	107	103		ug/m3		96	58 - 130
Naphthalene	52.4	56.5		ug/m3		108	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	9.03		ppb v/v		90	61 - 142
Chlorodifluoromethane	10	9.51		ppb v/v		95	60 - 147
1,2-Dichlorotetrafluoroethane	10	9.41		ppb v/v		94	71 - 141
Chloromethane	10	9.49		ppb v/v		95	56 - 141
n-Butane	10	9.72		ppb v/v		97	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	9.51		ppb v/v		95	72 - 124
Chloroethane	10	9.52		ppb v/v		95	68 - 130
Bromoethene(Vinyl Bromide)	10	9.60		ppb v/v		96	75 - 125
Trichlorofluoromethane	10	9.00		ppb v/v		90	70 - 129
1,1,2-Trichlorotrifluoroethane	10	9.05		ppb v/v		91	70 - 121
1,1-Dichloroethene	10	8.38		ppb v/v		84	68 - 120

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215366/3
Matrix: Air
Analysis Batch: 215366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10	9.66		ppb v/v		97	54 - 154
Isopropyl alcohol	10	11.3		ppb v/v		113	53 - 142
Carbon disulfide	10	9.12		ppb v/v		91	71 - 138
3-Chloropropene	10	9.37		ppb v/v		94	50 - 150
Methylene Chloride	10	9.19		ppb v/v		92	59 - 137
tert-Butyl alcohol	10	9.03		ppb v/v		90	66 - 132
Methyl tert-butyl ether	10	9.44		ppb v/v		94	70 - 127
trans-1,2-Dichloroethene	10	9.83		ppb v/v		98	69 - 137
n-Hexane	10	9.78		ppb v/v		98	63 - 138
1,1-Dichloroethane	10	9.53		ppb v/v		95	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	7.64		ppb v/v		76	72 - 124
cis-1,2-Dichloroethene	10	9.13		ppb v/v		91	72 - 121
Chloroform	10	9.22		ppb v/v		92	73 - 124
Tetrahydrofuran	10	9.47		ppb v/v		95	60 - 149
1,1,1-Trichloroethane	10	9.05		ppb v/v		91	72 - 127
Cyclohexane	10	9.33		ppb v/v		93	76 - 124
Carbon tetrachloride	10	8.91		ppb v/v		89	71 - 133
2,2,4-Trimethylpentane	10	9.92		ppb v/v		99	68 - 131
Benzene	10	9.52		ppb v/v		95	73 - 119
1,2-Dichloroethane	10	9.40		ppb v/v		94	68 - 135
n-Heptane	10	9.90		ppb v/v		99	60 - 142
Trichloroethene	10	9.47		ppb v/v		95	73 - 122
Methyl methacrylate	10	9.42		ppb v/v		94	73 - 129
1,2-Dichloropropane	10	9.74		ppb v/v		97	69 - 128
1,4-Dioxane	10	9.03		ppb v/v		90	66 - 129
Bromodichloromethane	10	9.37		ppb v/v		94	75 - 127
cis-1,3-Dichloropropene	10	9.55		ppb v/v		96	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	9.87		ppb v/v		99	58 - 144
Toluene	10	9.44		ppb v/v		94	75 - 122
trans-1,3-Dichloropropene	10	10.4		ppb v/v		104	74 - 128
1,1,2-Trichloroethane	10	9.70		ppb v/v		97	75 - 126
Tetrachloroethene	10	9.48		ppb v/v		95	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	10.2		ppb v/v		102	57 - 143
Dibromochloromethane	10	9.02		ppb v/v		90	73 - 125
1,2-Dibromoethane	10	9.35		ppb v/v		94	78 - 122
Chlorobenzene	10	9.25		ppb v/v		93	76 - 119
Ethylbenzene	10	9.52		ppb v/v		95	74 - 122
m,p-Xylene	20	18.8		ppb v/v		94	76 - 121
o-Xylene	10	9.45		ppb v/v		95	73 - 123
Styrene	10	9.82		ppb v/v		98	74 - 125
Bromoform	10	8.74		ppb v/v		87	53 - 149
Cumene	10	9.30		ppb v/v		93	73 - 123
1,1,2,2-Tetrachloroethane	10	9.55		ppb v/v		95	74 - 126
n-Propylbenzene	10	9.53		ppb v/v		95	73 - 127
4-Ethyltoluene	10	9.50		ppb v/v		95	75 - 129
1,3,5-Trimethylbenzene	10	9.45		ppb v/v		95	72 - 126

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215366/3
Matrix: Air
Analysis Batch: 215366

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	9.39		ppb v/v		94	74 - 126
tert-Butylbenzene	10	8.98		ppb v/v		90	71 - 125
1,2,4-Trimethylbenzene	10	9.30		ppb v/v		93	71 - 129
sec-Butylbenzene	10	9.26		ppb v/v		93	70 - 128
4-Isopropyltoluene	10	8.99		ppb v/v		90	68 - 130
1,3-Dichlorobenzene	10	9.14		ppb v/v		91	69 - 131
1,4-Dichlorobenzene	10	9.19		ppb v/v		92	67 - 132
Benzyl chloride	10	9.26		ppb v/v		93	60 - 136
n-Butylbenzene	10	9.47		ppb v/v		95	65 - 137
1,2-Dichlorobenzene	10	9.04		ppb v/v		90	68 - 129
1,2,4-Trichlorobenzene	10	10.4		ppb v/v		104	50 - 150
Hexachlorobutadiene	10	9.63		ppb v/v		96	58 - 130
Naphthalene	10	10.8		ppb v/v		108	50 - 150

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77744-1
Project/Site: The Nest

Air - GC/MS VOA

Analysis Batch: 215366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-77744-1	RI VP1	Total/NA	Air	TO-15	
200-77744-1 - DL	RI VP1	Total/NA	Air	TO-15	
MB 200-215366/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-215366/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77744-1
Project/Site: The Nest

Client Sample ID: RI VP1
Lab Sample ID: 200-77744-1
Date Collected: 04/15/25 12:30
Matrix: Air
Date Received: 04/17/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		20	215366	A1B	EET BUR	04/21/25 22:50
Total/NA	Analysis	TO-15	DL	100	215366	A1B	EET BUR	04/21/25 23:42

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77744-1
Project/Site: The Nest

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 Jersey	NELAP	VT972	06-30-25

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-Isopropyltoluene
TO-15		Air	Chlorodifluoromethane
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

New York	NELAP	10391	03-31-26

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: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77744-1
Project/Site: The Nest

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: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77744-1
Project/Site: The Nest

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-77744-1	RI VP1	Air	04/15/25 12:30	04/17/25 10:35	Air Canister (6-Liter) #5103

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Analyst	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID
200-77744	JR	4/17/2025	11:33	29.7	22	G40

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
200-77744-A-1	5103	-8.1	N	4182	07/03	Y	2879-64503	

[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

200-77744 Chain of Custody

Client Contact Information	Client Project Manager: Lee Ann Breitkreutz	Samples Collected By:	COC No
Company Name: REI	Phone:		____ of ____ COCs
Address: 960 Busti	Email:		TALS Project #:
City/State/Zip: Buffalo NY			For Lab Use Only:
Phone: (716) 249-6880	Site Contact:		Walk-in Client:
FAX	Tel/Fax		Lab Sampling
Project Name: THE NEST	Analysis Turnaround Time		Job / SDG No
Site/Location: 333 FIRST ST	Standard (Specific)		(See below for Add'l Items)
P O #	Rush (Specifiy) 5DAY		

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:
RE VP1	4/14/25	1230p	4/15/25	1230p	-28	-7	4182	5103	X										X				

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time: 4/15/25 1600	Samples Received by:	4/17/2025 10:35
Samples Relinquished by:	Date / Time:	Received by:	
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

ORIGIN ID:DKKA (716) 204-0770
LARRY COHEN
SHIPPING HQ
4498 MAIN ST STE 4
BUFFALO, NY 14226
UNITED STATES US
SHIP DATE: 15APR25
ACTWGT: 8.45 LB
CAD: 6571709/ROSA2630
DIMS: 17x10x10 IN
BILL THIRD PARTY
TO EUROFINS TEST AMERICA
530 COMMUNITY DR
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF:
INV:
PO:
DEPT:
FedEx
Express
THU - 17 APR 5:00P
** 2DAY **
TRK# 0201 8805 7931 5707
DSR
05403
K9 BTVA
VT-US BTV

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 200-77744-1

Login Number: 77744
List Number: 1
Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	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?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine 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		3/30/2025	1051	21	21	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	2879	Ø	Ø	Ø	29.9	GA01	4/2/25	0935	←	21.0	GA01	4/5/25	1133	←	21.0
2	2533	Ø	Ø	Ø	30.2	GA01	3/31/25	1111	←	21.0	GA01	4/2/25	0935	←	21.0
3	4121		1.19	1.19		GA01					GA01				
4	5434		1.17	1.17		GA01					GA01				
5	3482		Ø	Ø		GA01					GA01				
6	3348		Ø	Ø		GA01					GA01				
7	27036		Ø	Ø		GA01					GA01				
8	5103		Ø	Ø		GA01					GA01				
9	4802		Ø	Ø		GA01					GA01				
10	4871		Ø	Ø		GA01					GA01				
11	3639		Ø	Ø		GA01					GA01				
12	5164	←	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
2879	4/2/25	64503	AH		XXXXXXX				4/2/25	DB

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:

Page 30 of 39
4/23/2025
200-77537-A-1
2879
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 3/30/2025 12:00 AM 200-1988451
Loc: 200
77537
#1 A
Air-Storag

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 200-77537-1

SDG No.:

Client Sample ID: 2879 | Lab Sample ID: 200-77537-1

Matrix: Air | Lab File ID: 64503-22.d

Analysis Method: TO-15 | Date Collected: 03/30/2025 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 04/02/2025 02:01

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.: 214720 | 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.: 200-77537-1

SDG No.:

Client Sample ID: 2879 | Lab Sample ID: 200-77537-1

Matrix: Air | Lab File ID: 64503-22.d

Analysis Method: TO-15 | Date Collected: 03/30/2025 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 04/02/2025 02:01

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.: 214720 | 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.: 200-77537-1

SDG No.:

Client Sample ID: 2879 Lab Sample ID: 200-77537-1

Matrix: Air Lab File ID: 64503-22.d

Analysis Method: TO-15 Date Collected: 03/30/2025 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/02/2025 02:01

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.: 214720 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\20250401-64503.b\64503-22.d
Lims ID: 200-77537-A-1
Client ID: 2879
Sample Type: Client
Inject. Date: 02-Apr-2025 02:01:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0064503-022
Operator ID: vtp Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20250401-64503.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 02-Apr-2025 13:49:28 Calib Date: 26-Mar-2025 04:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20250325-64422.b\64422-16.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: F7XK Date: 02-Apr-2025 13:49:28

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.115				ND	
	2 Dichlorodifluoromethane	85		4.206				ND	
	3 Chlorodifluoromethane	51		4.243				ND	
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.543				ND	
	5 Chloromethane	50		4.655				ND	
	6 Vinyl chloride	62		4.949				ND	
	7 Butane	43		4.955				ND	7
	8 Butadiene	54		5.062				ND	
	9 Bromomethane	94		5.805				ND	
	10 Chloroethane	64		6.099				ND	
	13 Vinyl bromide	106		6.570				ND	
	14 Trichlorofluoromethane	101		6.752				ND	
	16 Ethanol	45		7.175				ND	
	20 1,1-Dichloroethene	96		7.988				ND	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		8.031				ND	
	22 Acetone	43		8.063				ND	
	23 Isopropyl alcohol	45		8.410				ND	
	24 Carbon disulfide	76	8.480	8.480	0.005	94	562	0.0138	7M
	26 3-Chloro-1-propene	41		8.812				ND	
	27 Methylene Chloride	49		9.090				ND	
	28 2-Methyl-2-propanol	59		9.325				ND	
	31 Methyl tert-butyl ether	73		9.694				ND	
	30 trans-1,2-Dichloroethene	61		9.694				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	32 Hexane	57		10.299				ND	
	33 1,1-Dichloroethane	63		10.588				ND	
	34 Vinyl acetate	43		10.599				ND	
	36 2-Butanone (MEK)	72		11.685				ND	
	37 cis-1,2-Dichloroethene	96		11.722				ND	
	38 Ethyl acetate	88		11.781				ND	
*	39 Chlorobromomethane	128	12.187	12.187	0.000	79	54286	10.0	
	40 Tetrahydrofuran	42		12.236				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Chloroform	83		12.380				ND	
	42 1,1,1-Trichloroethane	97		12.728				ND	
	43 Cyclohexane	84		12.888				ND	
	44 Carbon tetrachloride	117		13.038				ND	
	45 Benzene	78		13.407				ND	
	46 1,2-Dichloroethane	62		13.482				ND	
	47 Isooctane	57		13.643				ND	
	48 n-Heptane	43		13.969				ND	
*	49 1,4-Difluorobenzene	114	14.194	14.194	0.000	93	273837	10.0	
	51 Trichloroethene	95		14.664				ND	7
	53 1,2-Dichloropropane	63		15.140				ND	
	54 Methyl methacrylate	69		15.215				ND	
	55 1,4-Dioxane	88		15.269				ND	
	57 Dibromomethane	174		15.312				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		18.719				ND	
	71 Ethylene Dibromide	107		18.976				ND	
*	73 Chlorobenzene-d5	117	19.902	19.902	0.000	84	246940	10.0	
	74 Chlorobenzene	112		19.966				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	75 Ethylbenzene	91		20.148				ND	7
	76 m-Xylene & p-Xylene	106		20.399				ND	
	78 o-Xylene	106		21.111				ND	
	79 Styrene	104		21.137				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	7
	86 2-Chlorotoluene	91		22.539				ND	
	87 4-Ethyltoluene	105		22.566				ND	
	88 1,3,5-Trimethylbenzene	105		22.651				ND	
	91 tert-Butylbenzene	119		23.111				ND	
	92 1,2,4-Trimethylbenzene	105		23.197				ND	
	93 sec-Butylbenzene	105		23.432				ND	
	94 1,3-Dichlorobenzene	146		23.625				ND	
	95 4-Isopropyltoluene	119		23.646				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		27.578				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

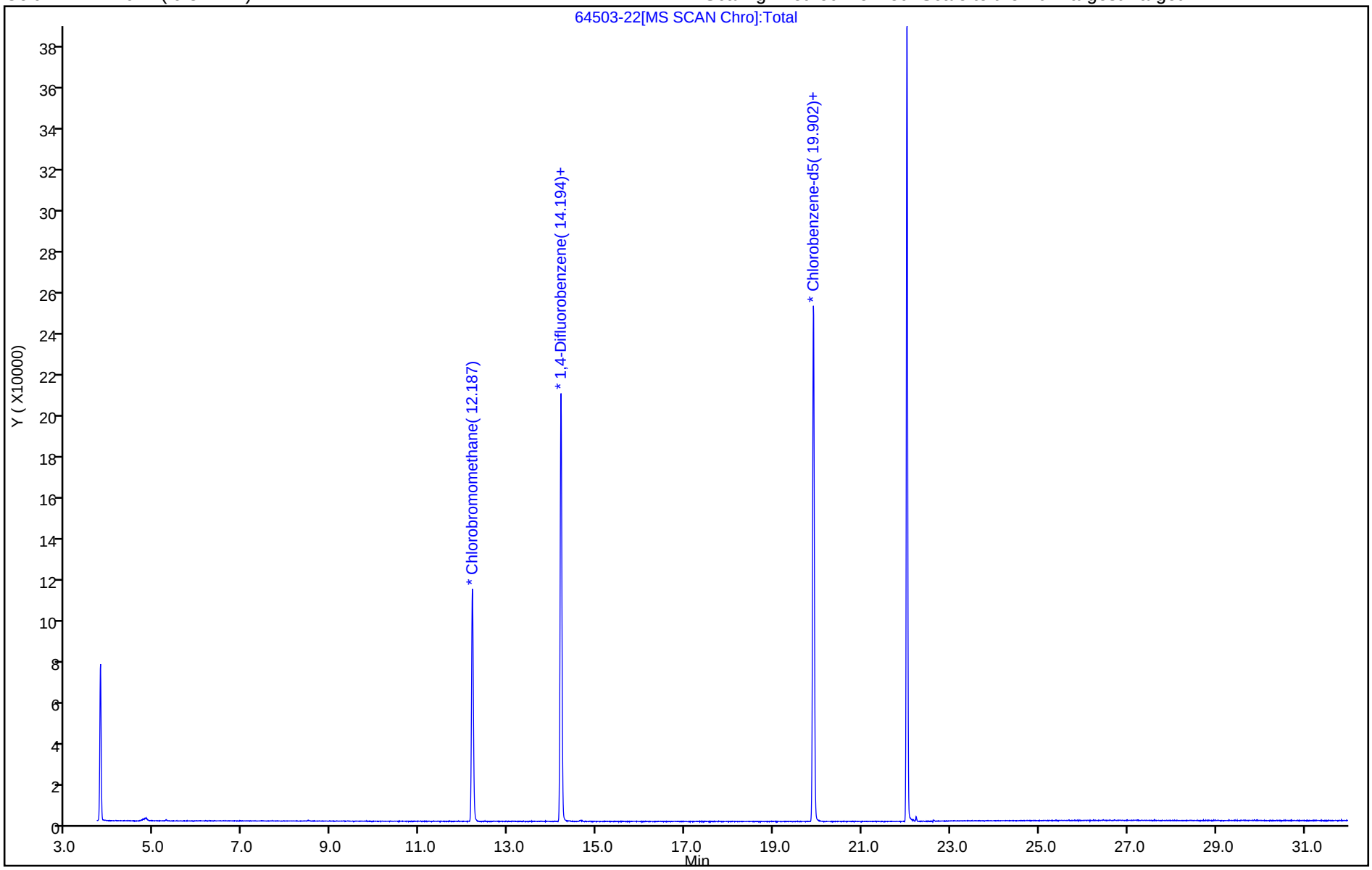
ATTO15WISs_00010 Amount Added: 20.00 Units: mL Run Reagent

Report Date: 02-Apr-2025 13:49:28 Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHW.i\20250401-64503.b\64503-22.d				
Injection Date:	02-Apr-2025 02:01:30	Instrument ID:	CHW.i	Operator ID:	vtp
Lims ID:	200-77537-A-1	Lab Sample ID:	200-77537-1	Worklist Smp#:	22
Client ID:	2879				
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



Manual Integration/User Assign Peak Report

Eurofins Burlington

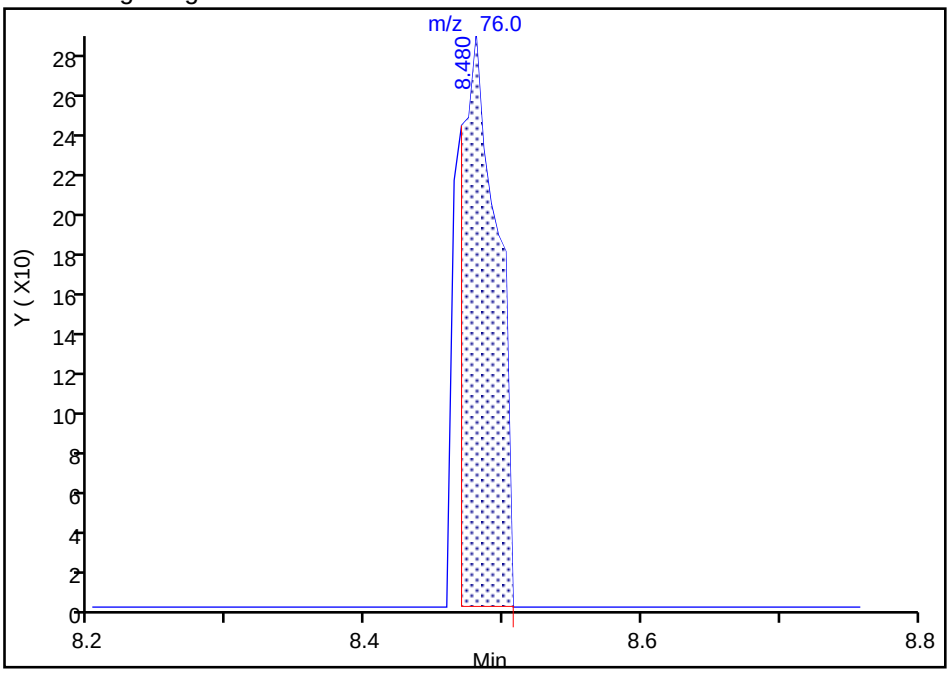
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20250401-64503.b\64503-22.d				
Injection Date:	02-Apr-2025 02:01:30	Instrument ID:	CHW.i		
Lims ID:	200-77537-A-1	Lab Sample ID:	200-77537-1		
Client ID:	2879				
Operator ID:	vtp	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

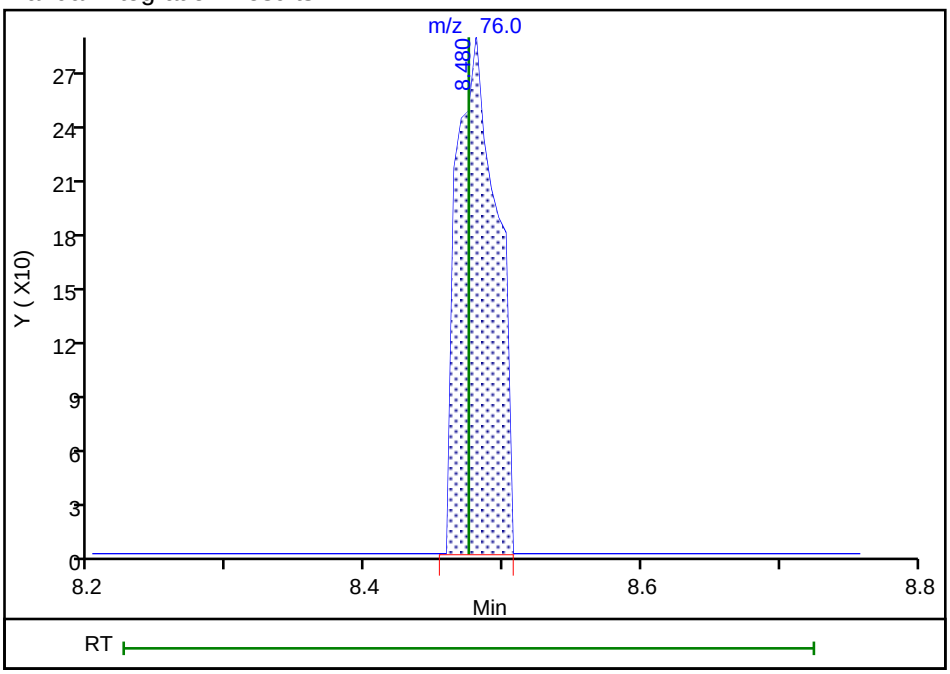
Processing Integration Results

RT: 8.48
Area: 495
Amount: 0.012198
Amount Units: ppb v/v



Manual Integration Results

RT: 8.48
Area: 562
Amount: 0.013849
Amount Units: ppb v/v



Reviewer: F7XK, 02-Apr-2025 13:48:11 07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Assign Peak

Summa Canister Dilution Worksheet

Client: Brydges Engineering in Environment & Ene
Project/Site: The Nest

Job No.: 200-77744-1

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
200-77744-1	6	-7.4	0.75	4.52	41.3	3.81	22.86		5.06	5.06	g33	04/21/25 15:58	VTP
200-77744-1	6	0	1.00	6.00	10.2	1.69	10.16		1.69	8.57	g33	04/21/25 15:58	VTP

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)

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Staub
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 4/28/2025 4:53:29 PM

JOB DESCRIPTION

The Nest

JOB NUMBER

200-77844-1

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington VT 05403

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 TestAmerica Project Manager.

Authorization

Generated
4/28/2025 4:53:29 PM

Authorized for release by
Lee Ann Heathcote, Project Manager II
LeeAnn.Heathcote@et.eurofinsus.com
(802)923-1028

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77844-1
Project/Site: The Nest

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
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.
U	Indicates the analyte was analyzed for but not detected.

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: 200-77844-1 Eurofins Burlington

Job Narrative
200-77844-1

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 4/26/2025 9:15 AM. Unless otherwise noted below, the sample arrived in good condition.

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: Brydges Engineering in Environment & Energy DPC
Project/Site: The Nest

Job ID: 200-77844-1

Client Sample ID: RI-VP-2

Lab Sample ID: 200-77844-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	36		25	11	ug/m3	10		TO-15	Total/NA
n-Butane	320		12	7.4	ug/m3	10		TO-15	Total/NA
1,3-Butadiene	1.1	J	4.4	0.88	ug/m3	10		TO-15	Total/NA
Trichlorofluoromethane	11		11	4.3	ug/m3	10		TO-15	Total/NA
Acetone	1200	E	120	45	ug/m3	10		TO-15	Total/NA
Carbon disulfide	29		16	5.6	ug/m3	10		TO-15	Total/NA
n-Hexane	21		18	5.6	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	3900	E	15	4.1	ug/m3	10		TO-15	Total/NA
Cyclohexane	4.0	J	6.9	1.8	ug/m3	10		TO-15	Total/NA
Benzene	7.0		6.4	1.6	ug/m3	10		TO-15	Total/NA
n-Heptane	28		8.2	3.5	ug/m3	10		TO-15	Total/NA
Trichloroethene	8.5		2.0	1.6	ug/m3	10		TO-15	Total/NA
Toluene	240		7.5	2.0	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	51		14	2.4	ug/m3	10		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	210		20	8.2	ug/m3	10		TO-15	Total/NA
Ethylbenzene	2.2	J	8.7	2.2	ug/m3	10		TO-15	Total/NA
m,p-Xylene	8.2	J	22	0.61	ug/m3	10		TO-15	Total/NA
o-Xylene	3.8	J	8.7	3.0	ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	6.6	J	9.8	4.0	ug/m3	10		TO-15	Total/NA
n-Butane - DL	310	D	61	38	ug/m3	51		TO-15	Total/NA
Acetone - DL	1100	D	610	230	ug/m3	51		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	3500	D	75	21	ug/m3	51		TO-15	Total/NA
n-Heptane - DL	27	J D	42	18	ug/m3	51		TO-15	Total/NA
Toluene - DL	210	D	38	10	ug/m3	51		TO-15	Total/NA
Tetrachloroethene - DL	53	J D	69	12	ug/m3	51		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone) - DL	110	D	100	42	ug/m3	51		TO-15	Total/NA
m,p-Xylene - DL	7.0	J D	110	3.1	ug/m3	51		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	7.3		5.0	2.2	ppb v/v	10		TO-15	Total/NA
n-Butane	130		5.0	3.1	ppb v/v	10		TO-15	Total/NA
1,3-Butadiene	0.48	J	2.0	0.40	ppb v/v	10		TO-15	Total/NA
Trichlorofluoromethane	2.0		2.0	0.77	ppb v/v	10		TO-15	Total/NA
Acetone	500	E	50	19	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	9.2		5.0	1.8	ppb v/v	10		TO-15	Total/NA
n-Hexane	5.8		5.0	1.6	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	1300	E	5.0	1.4	ppb v/v	10		TO-15	Total/NA
Cyclohexane	1.2	J	2.0	0.52	ppb v/v	10		TO-15	Total/NA
Benzene	2.2		2.0	0.51	ppb v/v	10		TO-15	Total/NA
n-Heptane	6.9		2.0	0.86	ppb v/v	10		TO-15	Total/NA
Trichloroethene	1.6		0.37	0.29	ppb v/v	10		TO-15	Total/NA
Toluene	63		2.0	0.54	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	7.5		2.0	0.36	ppb v/v	10		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	52		5.0	2.0	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	0.52	J	2.0	0.51	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	1.9	J	5.0	0.14	ppb v/v	10		TO-15	Total/NA
o-Xylene	0.87	J	2.0	0.69	ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.3	J	2.0	0.82	ppb v/v	10		TO-15	Total/NA
n-Butane - DL	130	D	26	16	ppb v/v	51		TO-15	Total/NA
Acetone - DL	450	D	260	97	ppb v/v	51		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	1200	D	26	7.1	ppb v/v	51		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Client Sample ID: RI-VP-2 (Continued)
Lab Sample ID: 200-77844-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Heptane - DL	6.6	J D	10	4.4	ppb v/v	51		TO-15	Total/NA
Toluene - DL	55	D	10	2.8	ppb v/v	51		TO-15	Total/NA
Tetrachloroethene - DL	7.9	J D	10	1.8	ppb v/v	51		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone) - DL	28	D	26	10	ppb v/v	51		TO-15	Total/NA
m,p-Xylene - DL	1.6	J D	26	0.71	ppb v/v	51		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77844-1
Project/Site: The Nest

Client Sample ID: RI-VP-2
Lab Sample ID: 200-77844-1

Date Collected: 04/25/25 07:30
Matrix: Air
Date Received: 04/26/25 09:15
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	**36**		25	11	ug/m3			04/26/25 15:31	10
Chlorodifluoromethane	18	U	18	13	ug/m3			04/26/25 15:31	10
1,2-Dichlorotetrafluoroethane	14	U	14	5.3	ug/m3			04/26/25 15:31	10
Chloromethane	10	U	10	6.8	ug/m3			04/26/25 15:31	10
n-Butane	**320**		12	7.4	ug/m3			04/26/25 15:31	10
Vinyl chloride	2.0	U	2.0	0.74	ug/m3			04/26/25 15:31	10
1,3-Butadiene	**1.1**	**J**	4.4	0.88	ug/m3			04/26/25 15:31	10
Bromomethane	7.8	U	7.8	2.4	ug/m3			04/26/25 15:31	10
Chloroethane	13	U	13	4.2	ug/m3			04/26/25 15:31	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	2.1	ug/m3			04/26/25 15:31	10
Trichlorofluoromethane	**11**		11	4.3	ug/m3			04/26/25 15:31	10
1,1,2-Trichlorotrifluoroethane	15	U	15	4.4	ug/m3			04/26/25 15:31	10
1,1-Dichloroethene	2.0	U	2.0	1.4	ug/m3			04/26/25 15:31	10
Acetone	**1200**	**E**	120	45	ug/m3			04/26/25 15:31	10
Isopropyl alcohol	120	U	120	54	ug/m3			04/26/25 15:31	10
Carbon disulfide	**29**		16	5.6	ug/m3			04/26/25 15:31	10
3-Chloropropene	16	U	16	2.5	ug/m3			04/26/25 15:31	10
Methylene Chloride	17	U	17	6.6	ug/m3			04/26/25 15:31	10
tert-Butyl alcohol	150	U	150	49	ug/m3			04/26/25 15:31	10
Methyl tert-butyl ether	7.2	U	7.2	2.4	ug/m3			04/26/25 15:31	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.79	ug/m3			04/26/25 15:31	10
n-Hexane	**21**		18	5.6	ug/m3			04/26/25 15:31	10
1,1-Dichloroethane	8.1	U	8.1	0.73	ug/m3			04/26/25 15:31	10
Methyl Ethyl Ketone (2-Butanone)	**3900**	**E**	15	4.1	ug/m3			04/26/25 15:31	10
cis-1,2-Dichloroethene	2.0	U	2.0	1.3	ug/m3			04/26/25 15:31	10
Chloroform	9.8	U	9.8	2.9	ug/m3			04/26/25 15:31	10
Tetrahydrofuran	150	U	150	50	ug/m3			04/26/25 15:31	10
1,1,1-Trichloroethane	11	U	11	4.0	ug/m3			04/26/25 15:31	10
Cyclohexane	**4.0**	**J**	6.9	1.8	ug/m3			04/26/25 15:31	10
Carbon tetrachloride	2.2	U	2.2	1.5	ug/m3			04/26/25 15:31	10
2,2,4-Trimethylpentane	9.3	U	9.3	3.3	ug/m3			04/26/25 15:31	10
Benzene	**7.0**		6.4	1.6	ug/m3			04/26/25 15:31	10
1,2-Dichloroethane	8.1	U	8.1	3.0	ug/m3			04/26/25 15:31	10
n-Heptane	**28**		8.2	3.5	ug/m3			04/26/25 15:31	10
Trichloroethene	**8.5**		2.0	1.6	ug/m3			04/26/25 15:31	10
Methyl methacrylate	20	U	20	5.3	ug/m3			04/26/25 15:31	10
1,2-Dichloropropane	9.2	U	9.2	2.5	ug/m3			04/26/25 15:31	10
1,4-Dioxane	180	U	180	6.8	ug/m3			04/26/25 15:31	10
Bromodichloromethane	13	U	13	3.9	ug/m3			04/26/25 15:31	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			04/26/25 15:31	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	20	U	20	7.8	ug/m3			04/26/25 15:31	10
Toluene	**240**		7.5	2.0	ug/m3			04/26/25 15:31	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.8	ug/m3			04/26/25 15:31	10
1,1,2-Trichloroethane	11	U	11	2.9	ug/m3			04/26/25 15:31	10
Tetrachloroethene	**51**		14	2.4	ug/m3			04/26/25 15:31	10
Methyl Butyl Ketone (2-Hexanone)	**210**		20	8.2	ug/m3			04/26/25 15:31	10
Dibromochloromethane	17	U	17	4.5	ug/m3			04/26/25 15:31	10
1,2-Dibromoethane	15	U	15	3.5	ug/m3			04/26/25 15:31	10

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77844-1
Project/Site: The Nest

Client Sample ID: RI-VP-2
Lab Sample ID: 200-77844-1
Date Collected: 04/25/25 07:30
Matrix: Air
Date Received: 04/26/25 09:15
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	9.2	U	9.2	2.2	ug/m3			04/26/25 15:31	10
Ethylbenzene	**2.2**	**J**	8.7	2.2	ug/m3			04/26/25 15:31	10
m,p-Xylene	**8.2**	**J**	22	0.61	ug/m3			04/26/25 15:31	10
o-Xylene	**3.8**	**J**	8.7	3.0	ug/m3			04/26/25 15:31	10
Styrene	8.5	U	8.5	2.4	ug/m3			04/26/25 15:31	10
Bromoform	21	U	21	6.0	ug/m3			04/26/25 15:31	10
Cumene	9.8	U	9.8	3.5	ug/m3			04/26/25 15:31	10
1,1,2,2-Tetrachloroethane	14	U	14	4.2	ug/m3			04/26/25 15:31	10
n-Propylbenzene	9.8	U	9.8	3.0	ug/m3			04/26/25 15:31	10
4-Ethyltoluene	9.8	U	9.8	3.3	ug/m3			04/26/25 15:31	10
1,3,5-Trimethylbenzene	9.8	U	9.8	3.3	ug/m3			04/26/25 15:31	10
2-Chlorotoluene	10	U	10	3.0	ug/m3			04/26/25 15:31	10
tert-Butylbenzene	11	U	11	3.8	ug/m3			04/26/25 15:31	10
1,2,4-Trimethylbenzene	**6.6**	**J**	9.8	4.0	ug/m3			04/26/25 15:31	10
sec-Butylbenzene	11	U	11	4.0	ug/m3			04/26/25 15:31	10
4-Isopropyltoluene	11	U	11	4.3	ug/m3			04/26/25 15:31	10
1,3-Dichlorobenzene	12	U	12	3.8	ug/m3			04/26/25 15:31	10
1,4-Dichlorobenzene	12	U	12	4.2	ug/m3			04/26/25 15:31	10
Benzyl chloride	10	U	10	3.8	ug/m3			04/26/25 15:31	10
n-Butylbenzene	11	U	11	3.8	ug/m3			04/26/25 15:31	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			04/26/25 15:31	10
1,2,4-Trichlorobenzene	37	U	37	22	ug/m3			04/26/25 15:31	10
Hexachlorobutadiene	21	U	21	8.3	ug/m3			04/26/25 15:31	10
Naphthalene	20	U	20	5.8	ug/m3			04/26/25 15:31	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**7.3**		5.0	2.2	ppb v/v			04/26/25 15:31	10
Chlorodifluoromethane	5.0	U	5.0	3.6	ppb v/v			04/26/25 15:31	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.76	ppb v/v			04/26/25 15:31	10
Chloromethane	5.0	U	5.0	3.3	ppb v/v			04/26/25 15:31	10
n-Butane	**130**		5.0	3.1	ppb v/v			04/26/25 15:31	10
Vinyl chloride	0.78	U	0.78	0.29	ppb v/v			04/26/25 15:31	10
1,3-Butadiene	**0.48**	**J**	2.0	0.40	ppb v/v			04/26/25 15:31	10
Bromomethane	2.0	U	2.0	0.62	ppb v/v			04/26/25 15:31	10
Chloroethane	5.0	U	5.0	1.6	ppb v/v			04/26/25 15:31	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.48	ppb v/v			04/26/25 15:31	10
Trichlorofluoromethane	**2.0**		2.0	0.77	ppb v/v			04/26/25 15:31	10
1,1,2-Trichlorotrifluoroethane	2.0	U	2.0	0.57	ppb v/v			04/26/25 15:31	10
1,1-Dichloroethene	0.50	U	0.50	0.35	ppb v/v			04/26/25 15:31	10
Acetone	**500**	**E**	50	19	ppb v/v			04/26/25 15:31	10
Isopropyl alcohol	50	U	50	22	ppb v/v			04/26/25 15:31	10
Carbon disulfide	**9.2**		5.0	1.8	ppb v/v			04/26/25 15:31	10
3-Chloropropene	5.0	U	5.0	0.81	ppb v/v			04/26/25 15:31	10
Methylene Chloride	5.0	U	5.0	1.9	ppb v/v			04/26/25 15:31	10
tert-Butyl alcohol	50	U	50	16	ppb v/v			04/26/25 15:31	10
Methyl tert-butyl ether	2.0	U	2.0	0.66	ppb v/v			04/26/25 15:31	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.20	ppb v/v			04/26/25 15:31	10
n-Hexane	**5.8**		5.0	1.6	ppb v/v			04/26/25 15:31	10
1,1-Dichloroethane	2.0	U	2.0	0.18	ppb v/v			04/26/25 15:31	10

Client Sample ID: RI-VP-2
Lab Sample ID: 200-77844-1
Date Collected: 04/25/25 07:30
Matrix: Air
Date Received: 04/26/25 09:15
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)	**1300**	**E**	5.0	1.4	ppb v/v			04/26/25 15:31	10
cis-1,2-Dichloroethene	0.50	U	0.50	0.32	ppb v/v			04/26/25 15:31	10
Chloroform	2.0	U	2.0	0.59	ppb v/v			04/26/25 15:31	10
Tetrahydrofuran	50	U	50	17	ppb v/v			04/26/25 15:31	10
1,1,1-Trichloroethane	2.0	U	2.0	0.73	ppb v/v			04/26/25 15:31	10
Cyclohexane	**1.2**	**J**	2.0	0.52	ppb v/v			04/26/25 15:31	10
Carbon tetrachloride	0.35	U	0.35	0.24	ppb v/v			04/26/25 15:31	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.71	ppb v/v			04/26/25 15:31	10
Benzene	**2.2**		2.0	0.51	ppb v/v			04/26/25 15:31	10
1,2-Dichloroethane	2.0	U	2.0	0.74	ppb v/v			04/26/25 15:31	10
n-Heptane	**6.9**		2.0	0.86	ppb v/v			04/26/25 15:31	10
Trichloroethene	**1.6**		0.37	0.29	ppb v/v			04/26/25 15:31	10
Methyl methacrylate	5.0	U	5.0	1.3	ppb v/v			04/26/25 15:31	10
1,2-Dichloropropane	2.0	U	2.0	0.55	ppb v/v			04/26/25 15:31	10
1,4-Dioxane	50	U	50	1.9	ppb v/v			04/26/25 15:31	10
Bromodichloromethane	2.0	U	2.0	0.58	ppb v/v			04/26/25 15:31	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.56	ppb v/v			04/26/25 15:31	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	5.0	U	5.0	1.9	ppb v/v			04/26/25 15:31	10
Toluene	**63**		2.0	0.54	ppb v/v			04/26/25 15:31	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.62	ppb v/v			04/26/25 15:31	10
1,1,2-Trichloroethane	2.0	U	2.0	0.53	ppb v/v			04/26/25 15:31	10
Tetrachloroethene	**7.5**		2.0	0.36	ppb v/v			04/26/25 15:31	10
Methyl Butyl Ketone (2-Hexanone)	**52**		5.0	2.0	ppb v/v			04/26/25 15:31	10
Dibromochloromethane	2.0	U	2.0	0.53	ppb v/v			04/26/25 15:31	10
1,2-Dibromoethane	2.0	U	2.0	0.45	ppb v/v			04/26/25 15:31	10
Chlorobenzene	2.0	U	2.0	0.47	ppb v/v			04/26/25 15:31	10
Ethylbenzene	**0.52**	**J**	2.0	0.51	ppb v/v			04/26/25 15:31	10
m,p-Xylene	**1.9**	**J**	5.0	0.14	ppb v/v			04/26/25 15:31	10
o-Xylene	**0.87**	**J**	2.0	0.69	ppb v/v			04/26/25 15:31	10
Styrene	2.0	U	2.0	0.56	ppb v/v			04/26/25 15:31	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			04/26/25 15:31	10
Cumene	2.0	U	2.0	0.72	ppb v/v			04/26/25 15:31	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.61	ppb v/v			04/26/25 15:31	10
n-Propylbenzene	2.0	U	2.0	0.62	ppb v/v			04/26/25 15:31	10
4-Ethyltoluene	2.0	U	2.0	0.68	ppb v/v			04/26/25 15:31	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.68	ppb v/v			04/26/25 15:31	10
2-Chlorotoluene	2.0	U	2.0	0.58	ppb v/v			04/26/25 15:31	10
tert-Butylbenzene	2.0	U	2.0	0.70	ppb v/v			04/26/25 15:31	10
1,2,4-Trimethylbenzene	**1.3**	**J**	2.0	0.82	ppb v/v			04/26/25 15:31	10
sec-Butylbenzene	2.0	U	2.0	0.72	ppb v/v			04/26/25 15:31	10
4-Isopropyltoluene	2.0	U	2.0	0.78	ppb v/v			04/26/25 15:31	10
1,3-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			04/26/25 15:31	10
1,4-Dichlorobenzene	2.0	U	2.0	0.70	ppb v/v			04/26/25 15:31	10
Benzyl chloride	2.0	U	2.0	0.74	ppb v/v			04/26/25 15:31	10
n-Butylbenzene	2.0	U	2.0	0.70	ppb v/v			04/26/25 15:31	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			04/26/25 15:31	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.0	ppb v/v			04/26/25 15:31	10
Hexachlorobutadiene	2.0	U	2.0	0.78	ppb v/v			04/26/25 15:31	10

Client Sample ID: RI-VP-2
Lab Sample ID: 200-77844-1
Date Collected: 04/25/25 07:30
Matrix: Air
Date Received: 04/26/25 09:15
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	3.8	U	3.8	1.1	ppb v/v			04/26/25 15:31	10

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	130	U	130	55	ug/m3			04/26/25 16:22	51
Chlorodifluoromethane	90	U	90	65	ug/m3			04/26/25 16:22	51
1,2-Dichlorotetrafluoroethane	71	U	71	27	ug/m3			04/26/25 16:22	51
Chloromethane	53	U	53	35	ug/m3			04/26/25 16:22	51
n-Butane	**310**	**D**	61	38	ug/m3			04/26/25 16:22	51
Vinyl chloride	10	U	10	3.8	ug/m3			04/26/25 16:22	51
1,3-Butadiene	23	U	23	4.5	ug/m3			04/26/25 16:22	51
Bromomethane	40	U	40	12	ug/m3			04/26/25 16:22	51
Chloroethane	67	U	67	22	ug/m3			04/26/25 16:22	51
Bromoethene(Vinyl Bromide)	45	U	45	11	ug/m3			04/26/25 16:22	51
Trichlorofluoromethane	57	U	57	22	ug/m3			04/26/25 16:22	51
1,1,2-Trichlorotrifluoroethane	78	U	78	22	ug/m3			04/26/25 16:22	51
1,1-Dichloroethene	10	U	10	7.1	ug/m3			04/26/25 16:22	51
Acetone	**1100**	**D**	610	230	ug/m3			04/26/25 16:22	51
Isopropyl alcohol	630	U	630	280	ug/m3			04/26/25 16:22	51
Carbon disulfide	79	U	79	29	ug/m3			04/26/25 16:22	51
3-Chloropropene	80	U	80	13	ug/m3			04/26/25 16:22	51
Methylene Chloride	89	U	89	34	ug/m3			04/26/25 16:22	51
tert-Butyl alcohol	770	U	770	250	ug/m3			04/26/25 16:22	51
Methyl tert-butyl ether	37	U	37	12	ug/m3			04/26/25 16:22	51
trans-1,2-Dichloroethene	40	U	40	4.0	ug/m3			04/26/25 16:22	51
n-Hexane	90	U	90	29	ug/m3			04/26/25 16:22	51
1,1-Dichloroethane	41	U	41	3.7	ug/m3			04/26/25 16:22	51
Methyl Ethyl Ketone (2-Butanone)	**3500**	**D**	75	21	ug/m3			04/26/25 16:22	51
cis-1,2-Dichloroethene	10	U	10	6.5	ug/m3			04/26/25 16:22	51
Chloroform	50	U	50	15	ug/m3			04/26/25 16:22	51
Tetrahydrofuran	750	U	750	260	ug/m3			04/26/25 16:22	51
1,1,1-Trichloroethane	56	U	56	20	ug/m3			04/26/25 16:22	51
Cyclohexane	35	U	35	9.1	ug/m3			04/26/25 16:22	51
Carbon tetrachloride	11	U	11	7.7	ug/m3			04/26/25 16:22	51
2,2,4-Trimethylpentane	48	U	48	17	ug/m3			04/26/25 16:22	51
Benzene	33	U	33	8.3	ug/m3			04/26/25 16:22	51
1,2-Dichloroethane	41	U	41	15	ug/m3			04/26/25 16:22	51
n-Heptane	**27**	**J D**	42	18	ug/m3			04/26/25 16:22	51
Trichloroethene	10	U	10	7.9	ug/m3			04/26/25 16:22	51
Methyl methacrylate	100	U	100	27	ug/m3			04/26/25 16:22	51
1,2-Dichloropropane	47	U	47	13	ug/m3			04/26/25 16:22	51
1,4-Dioxane	920	U	920	35	ug/m3			04/26/25 16:22	51
Bromodichloromethane	68	U	68	20	ug/m3			04/26/25 16:22	51
cis-1,3-Dichloropropene	46	U	46	13	ug/m3			04/26/25 16:22	51
4-Methyl-2-pentanone (Methyl isobutyl ketone)	100	U	100	40	ug/m3			04/26/25 16:22	51
Toluene	**210**	**D**	38	10	ug/m3			04/26/25 16:22	51
trans-1,3-Dichloropropene	46	U	46	14	ug/m3			04/26/25 16:22	51
1,1,2-Trichloroethane	56	U	56	15	ug/m3			04/26/25 16:22	51

Client Sample ID: RI-VP-2
Lab Sample ID: 200-77844-1
Date Collected: 04/25/25 07:30
Matrix: Air
Date Received: 04/26/25 09:15
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	**53**	**J D**	69	12	ug/m3			04/26/25 16:22	51
Methyl Butyl Ketone (2-Hexanone)	**110**	**D**	100	42	ug/m3			04/26/25 16:22	51
Dibromochloromethane	87	U	87	23	ug/m3			04/26/25 16:22	51
1,2-Dibromoethane	78	U	78	18	ug/m3			04/26/25 16:22	51
Chlorobenzene	47	U	47	11	ug/m3			04/26/25 16:22	51
Ethylbenzene	44	U	44	11	ug/m3			04/26/25 16:22	51
m,p-Xylene	**7.0**	**J D**	110	3.1	ug/m3			04/26/25 16:22	51
o-Xylene	44	U	44	15	ug/m3			04/26/25 16:22	51
Styrene	43	U	43	12	ug/m3			04/26/25 16:22	51
Bromoform	110	U	110	31	ug/m3			04/26/25 16:22	51
Cumene	50	U	50	18	ug/m3			04/26/25 16:22	51
1,1,2,2-Tetrachloroethane	70	U	70	21	ug/m3			04/26/25 16:22	51
n-Propylbenzene	50	U	50	16	ug/m3			04/26/25 16:22	51
4-Ethyltoluene	50	U	50	17	ug/m3			04/26/25 16:22	51
1,3,5-Trimethylbenzene	50	U	50	17	ug/m3			04/26/25 16:22	51
2-Chlorotoluene	53	U	53	15	ug/m3			04/26/25 16:22	51
tert-Butylbenzene	56	U	56	20	ug/m3			04/26/25 16:22	51
1,2,4-Trimethylbenzene	50	U	50	21	ug/m3			04/26/25 16:22	51
sec-Butylbenzene	56	U	56	20	ug/m3			04/26/25 16:22	51
4-Isopropyltoluene	56	U	56	22	ug/m3			04/26/25 16:22	51
1,3-Dichlorobenzene	61	U	61	19	ug/m3			04/26/25 16:22	51
1,4-Dichlorobenzene	61	U	61	21	ug/m3			04/26/25 16:22	51
Benzyl chloride	53	U	53	20	ug/m3			04/26/25 16:22	51
n-Butylbenzene	56	U	56	20	ug/m3			04/26/25 16:22	51
1,2-Dichlorobenzene	61	U	61	20	ug/m3			04/26/25 16:22	51
1,2,4-Trichlorobenzene	190	U	190	110	ug/m3			04/26/25 16:22	51
Hexachlorobutadiene	110	U	110	42	ug/m3			04/26/25 16:22	51
Naphthalene	100	U	100	29	ug/m3			04/26/25 16:22	51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	26	U	26	11	ppb v/v			04/26/25 16:22	51
Chlorodifluoromethane	26	U	26	18	ppb v/v			04/26/25 16:22	51
1,2-Dichlorotetrafluoroethane	10	U	10	3.9	ppb v/v			04/26/25 16:22	51
Chloromethane	26	U	26	17	ppb v/v			04/26/25 16:22	51
n-Butane	**130**	**D**	26	16	ppb v/v			04/26/25 16:22	51
Vinyl chloride	4.0	U	4.0	1.5	ppb v/v			04/26/25 16:22	51
1,3-Butadiene	10	U	10	2.0	ppb v/v			04/26/25 16:22	51
Bromomethane	10	U	10	3.2	ppb v/v			04/26/25 16:22	51
Chloroethane	26	U	26	8.2	ppb v/v			04/26/25 16:22	51
Bromoethene(Vinyl Bromide)	10	U	10	2.4	ppb v/v			04/26/25 16:22	51
Trichlorofluoromethane	10	U	10	3.9	ppb v/v			04/26/25 16:22	51
1,1,2-Trichlorotrifluoroethane	10	U	10	2.9	ppb v/v			04/26/25 16:22	51
1,1-Dichloroethene	2.6	U	2.6	1.8	ppb v/v			04/26/25 16:22	51
Acetone	**450**	**D**	260	97	ppb v/v			04/26/25 16:22	51
Isopropyl alcohol	260	U	260	110	ppb v/v			04/26/25 16:22	51
Carbon disulfide	26	U	26	9.2	ppb v/v			04/26/25 16:22	51
3-Chloropropene	26	U	26	4.1	ppb v/v			04/26/25 16:22	51
Methylene Chloride	26	U	26	9.7	ppb v/v			04/26/25 16:22	51
tert-Butyl alcohol	260	U	260	82	ppb v/v			04/26/25 16:22	51

Client Sample ID: RI-VP-2
Lab Sample ID: 200-77844-1
Date Collected: 04/25/25 07:30
Matrix: Air
Date Received: 04/26/25 09:15
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	10	U	10	3.4	ppb v/v			04/26/25 16:22	51
trans-1,2-Dichloroethene	10	U	10	1.0	ppb v/v			04/26/25 16:22	51
n-Hexane	26	U	26	8.2	ppb v/v			04/26/25 16:22	51
1,1-Dichloroethane	10	U	10	0.92	ppb v/v			04/26/25 16:22	51
Methyl Ethyl Ketone (2-Butanone)	**1200**	**D**	26	7.1	ppb v/v			04/26/25 16:22	51
cis-1,2-Dichloroethene	2.6	U	2.6	1.6	ppb v/v			04/26/25 16:22	51
Chloroform	10	U	10	3.0	ppb v/v			04/26/25 16:22	51
Tetrahydrofuran	260	U	260	87	ppb v/v			04/26/25 16:22	51
1,1,1-Trichloroethane	10	U	10	3.7	ppb v/v			04/26/25 16:22	51
Cyclohexane	10	U	10	2.7	ppb v/v			04/26/25 16:22	51
Carbon tetrachloride	1.8	U	1.8	1.2	ppb v/v			04/26/25 16:22	51
2,2,4-Trimethylpentane	10	U	10	3.6	ppb v/v			04/26/25 16:22	51
Benzene	10	U	10	2.6	ppb v/v			04/26/25 16:22	51
1,2-Dichloroethane	10	U	10	3.8	ppb v/v			04/26/25 16:22	51
n-Heptane	**6.6**	**J D**	10	4.4	ppb v/v			04/26/25 16:22	51
Trichloroethene	1.9	U	1.9	1.5	ppb v/v			04/26/25 16:22	51
Methyl methacrylate	26	U	26	6.6	ppb v/v			04/26/25 16:22	51
1,2-Dichloropropane	10	U	10	2.8	ppb v/v			04/26/25 16:22	51
1,4-Dioxane	260	U	260	9.7	ppb v/v			04/26/25 16:22	51
Bromodichloromethane	10	U	10	3.0	ppb v/v			04/26/25 16:22	51
cis-1,3-Dichloropropene	10	U	10	2.9	ppb v/v			04/26/25 16:22	51
4-Methyl-2-pentanone (Methyl isobutyl ketone)	26	U	26	9.7	ppb v/v			04/26/25 16:22	51
Toluene	**55**	**D**	10	2.8	ppb v/v			04/26/25 16:22	51
trans-1,3-Dichloropropene	10	U	10	3.2	ppb v/v			04/26/25 16:22	51
1,1,2-Trichloroethane	10	U	10	2.7	ppb v/v			04/26/25 16:22	51
Tetrachloroethene	**7.9**	**J D**	10	1.8	ppb v/v			04/26/25 16:22	51
Methyl Butyl Ketone (2-Hexanone)	**28**	**D**	26	10	ppb v/v			04/26/25 16:22	51
Dibromochloromethane	10	U	10	2.7	ppb v/v			04/26/25 16:22	51
1,2-Dibromoethane	10	U	10	2.3	ppb v/v			04/26/25 16:22	51
Chlorobenzene	10	U	10	2.4	ppb v/v			04/26/25 16:22	51
Ethylbenzene	10	U	10	2.6	ppb v/v			04/26/25 16:22	51
m,p-Xylene	**1.6**	**J D**	26	0.71	ppb v/v			04/26/25 16:22	51
o-Xylene	10	U	10	3.5	ppb v/v			04/26/25 16:22	51
Styrene	10	U	10	2.9	ppb v/v			04/26/25 16:22	51
Bromoform	10	U	10	3.0	ppb v/v			04/26/25 16:22	51
Cumene	10	U	10	3.7	ppb v/v			04/26/25 16:22	51
1,1,2,2-Tetrachloroethane	10	U	10	3.1	ppb v/v			04/26/25 16:22	51
n-Propylbenzene	10	U	10	3.2	ppb v/v			04/26/25 16:22	51
4-Ethyltoluene	10	U	10	3.5	ppb v/v			04/26/25 16:22	51
1,3,5-Trimethylbenzene	10	U	10	3.5	ppb v/v			04/26/25 16:22	51
2-Chlorotoluene	10	U	10	3.0	ppb v/v			04/26/25 16:22	51
tert-Butylbenzene	10	U	10	3.6	ppb v/v			04/26/25 16:22	51
1,2,4-Trimethylbenzene	10	U	10	4.2	ppb v/v			04/26/25 16:22	51
sec-Butylbenzene	10	U	10	3.7	ppb v/v			04/26/25 16:22	51
4-Isopropyltoluene	10	U	10	4.0	ppb v/v			04/26/25 16:22	51
1,3-Dichlorobenzene	10	U	10	3.2	ppb v/v			04/26/25 16:22	51
1,4-Dichlorobenzene	10	U	10	3.6	ppb v/v			04/26/25 16:22	51
Benzyl chloride	10	U	10	3.8	ppb v/v			04/26/25 16:22	51

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77844-1
Project/Site: The Nest

Client Sample ID: RI-VP-2
Lab Sample ID: 200-77844-1
Date Collected: 04/25/25 07:30
Matrix: Air
Date Received: 04/26/25 09:15
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	10	U	10	3.6	ppb v/v			04/26/25 16:22	51
1,2-Dichlorobenzene	10	U	10	3.4	ppb v/v			04/26/25 16:22	51
1,2,4-Trichlorobenzene	26	U	26	15	ppb v/v			04/26/25 16:22	51
Hexachlorobutadiene	10	U	10	4.0	ppb v/v			04/26/25 16:22	51
Naphthalene	19	U	19	5.6	ppb v/v			04/26/25 16:22	51

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-215573/5
Matrix: Air
Analysis Batch: 215573

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	1.1	ug/m3			04/26/25 12:41	1
Chlorodifluoromethane	1.8	U	1.8	1.3	ug/m3			04/26/25 12:41	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.53	ug/m3			04/26/25 12:41	1
Chloromethane	1.0	U	1.0	0.68	ug/m3			04/26/25 12:41	1
n-Butane	1.2	U	1.2	0.74	ug/m3			04/26/25 12:41	1
Vinyl chloride	0.20	U	0.20	0.074	ug/m3			04/26/25 12:41	1
1,3-Butadiene	0.44	U	0.44	0.088	ug/m3			04/26/25 12:41	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			04/26/25 12:41	1
Chloroethane	1.3	U	1.3	0.42	ug/m3			04/26/25 12:41	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.21	ug/m3			04/26/25 12:41	1
Trichlorofluoromethane	1.1	U	1.1	0.43	ug/m3			04/26/25 12:41	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.44	ug/m3			04/26/25 12:41	1
1,1-Dichloroethene	0.20	U	0.20	0.14	ug/m3			04/26/25 12:41	1
Acetone	12	U	12	4.5	ug/m3			04/26/25 12:41	1
Isopropyl alcohol	12	U	12	5.4	ug/m3			04/26/25 12:41	1
Carbon disulfide	1.6	U	1.6	0.56	ug/m3			04/26/25 12:41	1
3-Chloropropene	1.6	U	1.6	0.25	ug/m3			04/26/25 12:41	1
Methylene Chloride	1.7	U	1.7	0.66	ug/m3			04/26/25 12:41	1
tert-Butyl alcohol	15	U	15	4.9	ug/m3			04/26/25 12:41	1
Methyl tert-butyl ether	0.72	U	0.72	0.24	ug/m3			04/26/25 12:41	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.079	ug/m3			04/26/25 12:41	1
n-Hexane	1.8	U	1.8	0.56	ug/m3			04/26/25 12:41	1
1,1-Dichloroethane	0.81	U	0.81	0.073	ug/m3			04/26/25 12:41	1
Methyl Ethyl Ketone (2-Butanone)	1.5	U	1.5	0.41	ug/m3			04/26/25 12:41	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			04/26/25 12:41	1
Chloroform	0.98	U	0.98	0.29	ug/m3			04/26/25 12:41	1
Tetrahydrofuran	15	U	15	5.0	ug/m3			04/26/25 12:41	1
1,1,1-Trichloroethane	1.1	U	1.1	0.40	ug/m3			04/26/25 12:41	1
Cyclohexane	0.69	U	0.69	0.18	ug/m3			04/26/25 12:41	1
Carbon tetrachloride	0.22	U	0.22	0.15	ug/m3			04/26/25 12:41	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.33	ug/m3			04/26/25 12:41	1
Benzene	0.64	U	0.64	0.16	ug/m3			04/26/25 12:41	1
1,2-Dichloroethane	0.81	U	0.81	0.30	ug/m3			04/26/25 12:41	1
n-Heptane	0.82	U	0.82	0.35	ug/m3			04/26/25 12:41	1
Trichloroethene	0.20	U	0.20	0.16	ug/m3			04/26/25 12:41	1
Methyl methacrylate	2.0	U	2.0	0.53	ug/m3			04/26/25 12:41	1
1,2-Dichloropropane	0.92	U	0.92	0.25	ug/m3			04/26/25 12:41	1
1,4-Dioxane	18	U	18	0.68	ug/m3			04/26/25 12:41	1
Bromodichloromethane	1.3	U	1.3	0.39	ug/m3			04/26/25 12:41	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.25	ug/m3			04/26/25 12:41	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	0.78	ug/m3			04/26/25 12:41	1
Toluene	0.75	U	0.75	0.20	ug/m3			04/26/25 12:41	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.28	ug/m3			04/26/25 12:41	1
1,1,2-Trichloroethane	1.1	U	1.1	0.29	ug/m3			04/26/25 12:41	1
Tetrachloroethene	1.4	U	1.4	0.24	ug/m3			04/26/25 12:41	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			04/26/25 12:41	1
Dibromochloromethane	1.7	U	1.7	0.45	ug/m3			04/26/25 12:41	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			04/26/25 12:41	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215573/5
Matrix: Air
Analysis Batch: 215573

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.92	U	0.92	0.22	ug/m3			04/26/25 12:41	1
Ethylbenzene	0.87	U	0.87	0.22	ug/m3			04/26/25 12:41	1
m,p-Xylene	2.2	U	2.2	0.061	ug/m3			04/26/25 12:41	1
o-Xylene	0.87	U	0.87	0.30	ug/m3			04/26/25 12:41	1
Styrene	0.85	U	0.85	0.24	ug/m3			04/26/25 12:41	1
Bromoform	2.1	U	2.1	0.60	ug/m3			04/26/25 12:41	1
Cumene	0.98	U	0.98	0.35	ug/m3			04/26/25 12:41	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.42	ug/m3			04/26/25 12:41	1
n-Propylbenzene	0.98	U	0.98	0.30	ug/m3			04/26/25 12:41	1
4-Ethyltoluene	0.98	U	0.98	0.33	ug/m3			04/26/25 12:41	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.33	ug/m3			04/26/25 12:41	1
2-Chlorotoluene	1.0	U	1.0	0.30	ug/m3			04/26/25 12:41	1
tert-Butylbenzene	1.1	U	1.1	0.38	ug/m3			04/26/25 12:41	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.40	ug/m3			04/26/25 12:41	1
sec-Butylbenzene	1.1	U	1.1	0.40	ug/m3			04/26/25 12:41	1
4-Isopropyltoluene	1.1	U	1.1	0.43	ug/m3			04/26/25 12:41	1
1,3-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			04/26/25 12:41	1
1,4-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			04/26/25 12:41	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			04/26/25 12:41	1
n-Butylbenzene	1.1	U	1.1	0.38	ug/m3			04/26/25 12:41	1
1,2-Dichlorobenzene	1.2	U	1.2	0.40	ug/m3			04/26/25 12:41	1
1,2,4-Trichlorobenzene	3.7	U	3.7	2.2	ug/m3			04/26/25 12:41	1
Hexachlorobutadiene	2.1	U	2.1	0.83	ug/m3			04/26/25 12:41	1
Naphthalene	2.0	U	2.0	0.58	ug/m3			04/26/25 12:41	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.22	ppb v/v			04/26/25 12:41	1
Chlorodifluoromethane	0.50	U	0.50	0.36	ppb v/v			04/26/25 12:41	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.076	ppb v/v			04/26/25 12:41	1
Chloromethane	0.50	U	0.50	0.33	ppb v/v			04/26/25 12:41	1
n-Butane	0.50	U	0.50	0.31	ppb v/v			04/26/25 12:41	1
Vinyl chloride	0.078	U	0.078	0.029	ppb v/v			04/26/25 12:41	1
1,3-Butadiene	0.20	U	0.20	0.040	ppb v/v			04/26/25 12:41	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			04/26/25 12:41	1
Chloroethane	0.50	U	0.50	0.16	ppb v/v			04/26/25 12:41	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.048	ppb v/v			04/26/25 12:41	1
Trichlorofluoromethane	0.20	U	0.20	0.077	ppb v/v			04/26/25 12:41	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.057	ppb v/v			04/26/25 12:41	1
1,1-Dichloroethene	0.050	U	0.050	0.035	ppb v/v			04/26/25 12:41	1
Acetone	5.0	U	5.0	1.9	ppb v/v			04/26/25 12:41	1
Isopropyl alcohol	5.0	U	5.0	2.2	ppb v/v			04/26/25 12:41	1
Carbon disulfide	0.50	U	0.50	0.18	ppb v/v			04/26/25 12:41	1
3-Chloropropene	0.50	U	0.50	0.081	ppb v/v			04/26/25 12:41	1
Methylene Chloride	0.50	U	0.50	0.19	ppb v/v			04/26/25 12:41	1
tert-Butyl alcohol	5.0	U	5.0	1.6	ppb v/v			04/26/25 12:41	1
Methyl tert-butyl ether	0.20	U	0.20	0.066	ppb v/v			04/26/25 12:41	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.020	ppb v/v			04/26/25 12:41	1
n-Hexane	0.50	U	0.50	0.16	ppb v/v			04/26/25 12:41	1
1,1-Dichloroethane	0.20	U	0.20	0.018	ppb v/v			04/26/25 12:41	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215573/5
Matrix: Air
Analysis Batch: 215573

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)	0.50	U	0.50	0.14	ppb v/v			04/26/25 12:41	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.032	ppb v/v			04/26/25 12:41	1
Chloroform	0.20	U	0.20	0.059	ppb v/v			04/26/25 12:41	1
Tetrahydrofuran	5.0	U	5.0	1.7	ppb v/v			04/26/25 12:41	1
1,1,1-Trichloroethane	0.20	U	0.20	0.073	ppb v/v			04/26/25 12:41	1
Cyclohexane	0.20	U	0.20	0.052	ppb v/v			04/26/25 12:41	1
Carbon tetrachloride	0.035	U	0.035	0.024	ppb v/v			04/26/25 12:41	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.071	ppb v/v			04/26/25 12:41	1
Benzene	0.20	U	0.20	0.051	ppb v/v			04/26/25 12:41	1
1,2-Dichloroethane	0.20	U	0.20	0.074	ppb v/v			04/26/25 12:41	1
n-Heptane	0.20	U	0.20	0.086	ppb v/v			04/26/25 12:41	1
Trichloroethene	0.037	U	0.037	0.029	ppb v/v			04/26/25 12:41	1
Methyl methacrylate	0.50	U	0.50	0.13	ppb v/v			04/26/25 12:41	1
1,2-Dichloropropane	0.20	U	0.20	0.055	ppb v/v			04/26/25 12:41	1
1,4-Dioxane	5.0	U	5.0	0.19	ppb v/v			04/26/25 12:41	1
Bromodichloromethane	0.20	U	0.20	0.058	ppb v/v			04/26/25 12:41	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.056	ppb v/v			04/26/25 12:41	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.19	ppb v/v			04/26/25 12:41	1
Toluene	0.20	U	0.20	0.054	ppb v/v			04/26/25 12:41	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.062	ppb v/v			04/26/25 12:41	1
1,1,2-Trichloroethane	0.20	U	0.20	0.053	ppb v/v			04/26/25 12:41	1
Tetrachloroethene	0.20	U	0.20	0.036	ppb v/v			04/26/25 12:41	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			04/26/25 12:41	1
Dibromochloromethane	0.20	U	0.20	0.053	ppb v/v			04/26/25 12:41	1
1,2-Dibromoethane	0.20	U	0.20	0.045	ppb v/v			04/26/25 12:41	1
Chlorobenzene	0.20	U	0.20	0.047	ppb v/v			04/26/25 12:41	1
Ethylbenzene	0.20	U	0.20	0.051	ppb v/v			04/26/25 12:41	1
m,p-Xylene	0.50	U	0.50	0.014	ppb v/v			04/26/25 12:41	1
o-Xylene	0.20	U	0.20	0.069	ppb v/v			04/26/25 12:41	1
Styrene	0.20	U	0.20	0.056	ppb v/v			04/26/25 12:41	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			04/26/25 12:41	1
Cumene	0.20	U	0.20	0.072	ppb v/v			04/26/25 12:41	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.061	ppb v/v			04/26/25 12:41	1
n-Propylbenzene	0.20	U	0.20	0.062	ppb v/v			04/26/25 12:41	1
4-Ethyltoluene	0.20	U	0.20	0.068	ppb v/v			04/26/25 12:41	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.068	ppb v/v			04/26/25 12:41	1
2-Chlorotoluene	0.20	U	0.20	0.058	ppb v/v			04/26/25 12:41	1
tert-Butylbenzene	0.20	U	0.20	0.070	ppb v/v			04/26/25 12:41	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.082	ppb v/v			04/26/25 12:41	1
sec-Butylbenzene	0.20	U	0.20	0.072	ppb v/v			04/26/25 12:41	1
4-Isopropyltoluene	0.20	U	0.20	0.078	ppb v/v			04/26/25 12:41	1
1,3-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			04/26/25 12:41	1
1,4-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			04/26/25 12:41	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			04/26/25 12:41	1
n-Butylbenzene	0.20	U	0.20	0.070	ppb v/v			04/26/25 12:41	1
1,2-Dichlorobenzene	0.20	U	0.20	0.066	ppb v/v			04/26/25 12:41	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.30	ppb v/v			04/26/25 12:41	1
Hexachlorobutadiene	0.20	U	0.20	0.078	ppb v/v			04/26/25 12:41	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-215573/5
Matrix: Air
Analysis Batch: 215573

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.38	U	0.38	0.11	ppb v/v			04/26/25 12:41	1

Lab Sample ID: LCS 200-215573/3
Matrix: Air
Analysis Batch: 215573

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	49.6		ug/m3		100	61 - 142
Chlorodifluoromethane	35.4	35.6		ug/m3		101	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	72.2		ug/m3		103	71 - 141
Chloromethane	20.6	20.4		ug/m3		99	56 - 141
n-Butane	23.8	23.5		ug/m3		99	53 - 151
Vinyl chloride	25.6	26.6		ug/m3		104	61 - 135
1,3-Butadiene	22.1	22.2		ug/m3		100	58 - 139
Bromomethane	38.8	39.8		ug/m3		103	72 - 124
Chloroethane	26.4	26.1		ug/m3		99	68 - 130
Bromoethene(Vinyl Bromide)	43.7	46.6		ug/m3		107	75 - 125
Trichlorofluoromethane	56.2	57.7		ug/m3		103	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	76.7		ug/m3		100	70 - 121
1,1-Dichloroethene	39.6	40.2		ug/m3		101	68 - 120
Acetone	23.7	22.8		ug/m3		96	54 - 154
Isopropyl alcohol	24.6	24.1		ug/m3		98	53 - 142
Carbon disulfide	31.1	30.3		ug/m3		97	71 - 138
3-Chloropropene	31.3	27.2		ug/m3		87	50 - 150
Methylene Chloride	34.7	33.4		ug/m3		96	59 - 137
tert-Butyl alcohol	30.3	28.1		ug/m3		93	66 - 132
Methyl tert-butyl ether	36.0	37.5		ug/m3		104	70 - 127
trans-1,2-Dichloroethene	39.6	42.5		ug/m3		107	69 - 137
n-Hexane	35.2	36.2		ug/m3		103	63 - 138
1,1-Dichloroethane	40.5	41.2		ug/m3		102	66 - 130
Methyl Ethyl Ketone (2-Butanone)	29.5	24.2		ug/m3		82	72 - 124
cis-1,2-Dichloroethene	39.6	39.1		ug/m3		99	72 - 121
Chloroform	48.8	49.9		ug/m3		102	73 - 124
Tetrahydrofuran	29.5	28.5		ug/m3		97	60 - 149
1,1,1-Trichloroethane	54.6	56.9		ug/m3		104	72 - 127
Cyclohexane	34.4	36.5		ug/m3		106	76 - 124
Carbon tetrachloride	62.9	68.9		ug/m3		110	71 - 133
2,2,4-Trimethylpentane	46.7	50.4		ug/m3		108	68 - 131
Benzene	31.9	33.7		ug/m3		105	73 - 119
1,2-Dichloroethane	40.5	42.9		ug/m3		106	68 - 135
n-Heptane	41.0	43.0		ug/m3		105	60 - 142
Trichloroethene	53.7	57.8		ug/m3		108	73 - 122
Methyl methacrylate	40.9	42.7		ug/m3		104	73 - 129
1,2-Dichloropropane	46.2	49.5		ug/m3		107	69 - 128
1,4-Dioxane	36.0	37.7		ug/m3		105	66 - 129
Bromodichloromethane	67.0	71.5		ug/m3		107	75 - 127
cis-1,3-Dichloropropene	45.4	48.8		ug/m3		108	74 - 125

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215573/3
Matrix: Air
Analysis Batch: 215573

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	43.2		ug/m3		106	58 - 144
Toluene	37.7	38.7		ug/m3		103	75 - 122
trans-1,3-Dichloropropene	45.4	53.7		ug/m3		118	74 - 128
1,1,2-Trichloroethane	54.6	55.6		ug/m3		102	75 - 126
Tetrachloroethene	67.8	69.2		ug/m3		102	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	41.9		ug/m3		102	57 - 143
Dibromochloromethane	85.2	83.7		ug/m3		98	73 - 125
1,2-Dibromoethane	76.8	76.8		ug/m3		100	78 - 122
Chlorobenzene	46.0	46.6		ug/m3		101	76 - 119
Ethylbenzene	43.4	44.6		ug/m3		103	74 - 122
m,p-Xylene	86.8	91.0		ug/m3		105	76 - 121
o-Xylene	43.4	45.8		ug/m3		106	73 - 123
Styrene	42.6	46.6		ug/m3		109	74 - 125
Bromoform	103	99.3		ug/m3		96	53 - 149
Cumene	49.1	51.4		ug/m3		105	73 - 123
1,1,2,2-Tetrachloroethane	68.6	69.3		ug/m3		101	74 - 126
n-Propylbenzene	49.1	51.3		ug/m3		104	73 - 127
4-Ethyltoluene	49.2	53.2		ug/m3		108	75 - 129
1,3,5-Trimethylbenzene	49.2	52.7		ug/m3		107	72 - 126
2-Chlorotoluene	51.8	53.7		ug/m3		104	74 - 126
tert-Butylbenzene	54.9	57.3		ug/m3		104	71 - 125
1,2,4-Trimethylbenzene	49.2	52.7		ug/m3		107	71 - 129
sec-Butylbenzene	54.9	58.4		ug/m3		106	70 - 128
4-Isopropyltoluene	54.9	57.8		ug/m3		105	68 - 130
1,3-Dichlorobenzene	60.1	62.8		ug/m3		104	69 - 131
1,4-Dichlorobenzene	60.1	63.9		ug/m3		106	67 - 132
Benzyl chloride	51.8	54.9		ug/m3		106	60 - 136
n-Butylbenzene	54.9	59.0		ug/m3		107	65 - 137
1,2-Dichlorobenzene	60.1	62.9		ug/m3		105	68 - 129
1,2,4-Trichlorobenzene	74.2	90.5		ug/m3		122	50 - 150
Hexachlorobutadiene	107	122		ug/m3		114	58 - 130
Naphthalene	52.4	64.2		ug/m3		122	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	10.0		ppb v/v		100	61 - 142
Chlorodifluoromethane	10	10.1		ppb v/v		101	60 - 147
1,2-Dichlorotetrafluoroethane	10	10.3		ppb v/v		103	71 - 141
Chloromethane	10	9.88		ppb v/v		99	56 - 141
n-Butane	10	9.90		ppb v/v		99	53 - 151
Vinyl chloride	10	10.4		ppb v/v		104	61 - 135
1,3-Butadiene	10	10.0		ppb v/v		100	58 - 139
Bromomethane	10	10.3		ppb v/v		103	72 - 124
Chloroethane	10	9.89		ppb v/v		99	68 - 130
Bromoethene(Vinyl Bromide)	10	10.7		ppb v/v		107	75 - 125
Trichlorofluoromethane	10	10.3		ppb v/v		103	70 - 129
1,1,2-Trichlorotrifluoroethane	10	10.0		ppb v/v		100	70 - 121
1,1-Dichloroethene	10	10.1		ppb v/v		101	68 - 120

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215573/3
Matrix: Air
Analysis Batch: 215573

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10	9.60		ppb v/v		96	54 - 154
Isopropyl alcohol	10	9.81		ppb v/v		98	53 - 142
Carbon disulfide	10	9.72		ppb v/v		97	71 - 138
3-Chloropropene	10	8.70		ppb v/v		87	50 - 150
Methylene Chloride	10	9.61		ppb v/v		96	59 - 137
tert-Butyl alcohol	10	9.28		ppb v/v		93	66 - 132
Methyl tert-butyl ether	10	10.4		ppb v/v		104	70 - 127
trans-1,2-Dichloroethene	10	10.7		ppb v/v		107	69 - 137
n-Hexane	10	10.3		ppb v/v		103	63 - 138
1,1-Dichloroethane	10	10.2		ppb v/v		102	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	8.22		ppb v/v		82	72 - 124
cis-1,2-Dichloroethene	10	9.87		ppb v/v		99	72 - 121
Chloroform	10	10.2		ppb v/v		102	73 - 124
Tetrahydrofuran	10	9.68		ppb v/v		97	60 - 149
1,1,1-Trichloroethane	10	10.4		ppb v/v		104	72 - 127
Cyclohexane	10	10.6		ppb v/v		106	76 - 124
Carbon tetrachloride	10	11.0		ppb v/v		110	71 - 133
2,2,4-Trimethylpentane	10	10.8		ppb v/v		108	68 - 131
Benzene	10	10.5		ppb v/v		105	73 - 119
1,2-Dichloroethane	10	10.6		ppb v/v		106	68 - 135
n-Heptane	10	10.5		ppb v/v		105	60 - 142
Trichloroethene	10	10.8		ppb v/v		108	73 - 122
Methyl methacrylate	10	10.4		ppb v/v		104	73 - 129
1,2-Dichloropropane	10	10.7		ppb v/v		107	69 - 128
1,4-Dioxane	10	10.5		ppb v/v		105	66 - 129
Bromodichloromethane	10	10.7		ppb v/v		107	75 - 127
cis-1,3-Dichloropropene	10	10.8		ppb v/v		108	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	10.6		ppb v/v		106	58 - 144
Toluene	10	10.3		ppb v/v		103	75 - 122
trans-1,3-Dichloropropene	10	11.8		ppb v/v		118	74 - 128
1,1,2-Trichloroethane	10	10.2		ppb v/v		102	75 - 126
Tetrachloroethene	10	10.2		ppb v/v		102	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	10.2		ppb v/v		102	57 - 143
Dibromochloromethane	10	9.82		ppb v/v		98	73 - 125
1,2-Dibromoethane	10	10.0		ppb v/v		100	78 - 122
Chlorobenzene	10	10.1		ppb v/v		101	76 - 119
Ethylbenzene	10	10.3		ppb v/v		103	74 - 122
m,p-Xylene	20	20.9		ppb v/v		105	76 - 121
o-Xylene	10	10.5		ppb v/v		106	73 - 123
Styrene	10	10.9		ppb v/v		109	74 - 125
Bromoform	10	9.61		ppb v/v		96	53 - 149
Cumene	10	10.5		ppb v/v		105	73 - 123
1,1,2,2-Tetrachloroethane	10	10.1		ppb v/v		101	74 - 126
n-Propylbenzene	10	10.4		ppb v/v		104	73 - 127
4-Ethyltoluene	10	10.8		ppb v/v		108	75 - 129
1,3,5-Trimethylbenzene	10	10.7		ppb v/v		107	72 - 126

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-215573/3
Matrix: Air
Analysis Batch: 215573

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	10.4		ppb v/v		104	74 - 126
tert-Butylbenzene	10	10.4		ppb v/v		104	71 - 125
1,2,4-Trimethylbenzene	10	10.7		ppb v/v		107	71 - 129
sec-Butylbenzene	10	10.6		ppb v/v		106	70 - 128
4-Isopropyltoluene	10	10.5		ppb v/v		105	68 - 130
1,3-Dichlorobenzene	10	10.4		ppb v/v		104	69 - 131
1,4-Dichlorobenzene	10	10.6		ppb v/v		106	67 - 132
Benzyl chloride	10	10.6		ppb v/v		106	60 - 136
n-Butylbenzene	10	10.7		ppb v/v		107	65 - 137
1,2-Dichlorobenzene	10	10.5		ppb v/v		105	68 - 129
1,2,4-Trichlorobenzene	10	12.2		ppb v/v		122	50 - 150
Hexachlorobutadiene	10	11.4		ppb v/v		114	58 - 130
Naphthalene	10	12.2		ppb v/v		122	50 - 150

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77844-1
Project/Site: The Nest

Air - GC/MS VOA

Analysis Batch: 215573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-77844-1	RI-VP-2	Total/NA	Air	TO-15	
200-77844-1 - DL	RI-VP-2	Total/NA	Air	TO-15	
MB 200-215573/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-215573/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77844-1
Project/Site: The Nest

Client Sample ID: RI-VP-2
Lab Sample ID: 200-77844-1

Date Collected: 04/25/25 07:30
Matrix: Air
Date Received: 04/26/25 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	215573	K1P	EET BUR	04/26/25 15:31
Total/NA	Analysis	TO-15	DL	51	215573	K1P	EET BUR	04/26/25 16:22

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77844-1
Project/Site: The Nest

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 Jersey	NELAP	VT972	06-30-25

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-Isopropyltoluene
TO-15		Air	Chlorodifluoromethane
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

New York	NELAP	10391	03-31-26

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: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77844-1
Project/Site: The Nest

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: Brydges Engineering in Environment & Energy DPC
Job ID: 200-77844-1
Project/Site: The Nest

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-77844-1	RI-VP-2	Air	04/25/25 07:30	04/26/25 09:15	Air Canister (6-Liter) #4943

Eurofins Burlington
Phone: 1-802-660-1990
530 Community Drive, Suite 11, South Burlington, VT 05403

Canister Samples Chain of Custody Record

200-77844 Chain of Custody

Client Contact Information	Client Project Manager: Lee Ann Heathcote	Samples Collected By:	____ of ____ COCs
Company Name: BE3	Phone:		TALS Project #:
Address: 960 Rust Avenue	Email:		For Lab Use Only:
City/State/Zip Buffalo, NY, 14213			Walk-in Client:
Phone: 716-249-6880	Site Contact:		Lab Sampling:
FAX:	Tel/Fax		Job / SDG No.:
Project Name: The NEST	Analysis Turnaround Time		(See below for Add'l Items)
Site/Location: 333 1st Street	Standard (Specific):		
P O #	Rush (Specifiy): 2-day		

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	**EXPECT HIGH LEVELS?	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: **Notes about expected high concentrations
RI-VP-2	4/24	0730	4/25	0730	-26	-7	3989	4943	X	X													

eurofins | Environment Testing	Temperature (Fahrenheit)			
	Start	Interior	Ambient	
	Stop			
	Pressure (inches of Hg)			
	Start	Interior	Ambient	
	Stop			

Special Instructions/QC Requirements & Comments: Burlington Project 20012025

Samples Shipped by: Paul Stab	Date / Time: 4/25 3:30	Samples Received by:
Samples Relinquished by:	Date / Time:	Received by:
Relinquished by:	Date / Time:	Received by: EMA Burl 4/26/25 0915

Lab Use Only: **Shipper Name:** **Opened by:** **Condition:**

TestAmerica Laboratories, Inc. (d/b/a Eurofins Burlington) assumes no liability with respect to the collection and shipment of these samples.

ORIGIN ID:BUFA (585) 967-7285
JASON
4498 MAIN ST STE 4
BUFFALO, NY 14226
UNITED STATES US
SHIP DATE: 25APR25
ACTWGT: 8.90 LB
CAD: 6993854/SSFE2600
DIMS: 10x10x16 IN
BILL THIRD PARTY
TO
EUROFINS
530 COMMUNITY DRIVE SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF:
INV:
PO:
DEPT:
FedEx
Express
TRK# 0201 2879 6339 4237
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO BTVA
05403
VT-US BTV
Part # 156297-4235 HRUB 01/26

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 200-77844-1

Login Number: 77844
List Number: 1
Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine 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:
Top Rack	10		4/11/2025	1112	21	21	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	4943	Ø	Ø	Ø	-29.4	GA01	4/12/25	1256	←	21.0	GA01	4/19/25	1546	✓3	21.0
2	2520	Ø	Ø	Ø	29.9	GA01	4/19/25	1546	←	21.0	GA01	4/23/25	1022	←	21.0
3	5159	Ø	Ø	Ø	-29.4	GA01	4/12/25	1256	←	21.0	GA01	4/19/25	1546	✓3	21.0
4	3380			Ø		GA01					GA01				
5	2586			Ø		GA01					GA01				
6	4488			Ø		GA01					GA01				
7	5141			Ø		GA01					GA01				
8	5098			Ø		GA01					GA01				
9	2669			Ø		GA01					GA01				
10	6020			Ø		GA01					GA01				
11	2791			Ø		GA01					GA01				
12	7701	✓	✓	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
2520	4/13/25	64693	JB		XXXXXXX				4/13/25	CC

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:

200-77685-A-2
2020
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/11/2025 12:00 AM 200-1991644
Loc: 200
77685
#2 A
Air-Storag

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 200-77685-1

SDG No.:

Client Sample ID: 2520 | Lab Sample ID: 200-77685-2

Matrix: Air | Lab File ID: 64693_025.D

Analysis Method: TO-15 | Date Collected: 04/11/2025 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 04/13/2025 06:15

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.: 215116 | Units: ppb v/v

Preparation Batch No.: | Instrument ID: CHAN.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.: 200-77685-1

SDG No.:

Client Sample ID: 2520 | Lab Sample ID: 200-77685-2

Matrix: Air | Lab File ID: 64693_025.D

Analysis Method: TO-15 | Date Collected: 04/11/2025 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 04/13/2025 06:15

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.: 215116 | Units: ppb v/v

Preparation Batch No.: | Instrument ID: CHAN.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.: 200-77685-1

SDG No.:

Client Sample ID: 2520 Lab Sample ID: 200-77685-2

Matrix: Air Lab File ID: 64693_025.D

Analysis Method: TO-15 Date Collected: 04/11/2025 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/13/2025 06:15

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.: 215116 Units: ppb v/v

Preparation Batch No.: Instrument ID: CHAN.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\CHAN.i\20250412-64693.b\64693_025.D
Lims ID: 200-77685-A-2
Client ID: 2520
Sample Type: Client
Inject. Date: 13-Apr-2025 06:15:12 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0064693-025
Operator ID: wrd Instrument ID: CHAN.i

Method: \\chromfs\Burlington\ChromData\CHAN.i\20250412-64693.b\TO15_TO3_Master_Method_AN.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Apr-2025 16:59:36 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: CTX1643

First Level Reviewer: BKZ7 Date: 14-Apr-2025 06:39:45

	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	
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.802				ND	
	5 Chloromethane	50	4.915	4.918	-0.005	97	3179	0.0851	
	6 Vinyl chloride	62		5.214				ND	
	7 Butane	43		5.220				ND	7
	8 Butadiene	54		5.332				ND	
	9 Bromomethane	94		6.049				ND	
	10 Chloroethane	64		6.322				ND	
	13 Vinyl bromide	106		6.734				ND	
	14 Trichlorofluoromethane	101		6.905				ND	
	16 Ethanol	45		7.247				ND	
	20 1,1-Dichloroethene	96		7.953				ND	7
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		8.002				ND	
	22 Acetone	43		8.007				ND	7
	23 Isopropyl alcohol	45		8.296				ND	7
	24 Carbon disulfide	76		8.360				ND	7
	26 3-Chloro-1-propene	41		8.638				ND	
	27 Methylene Chloride	49		8.863				ND	7
	28 2-Methyl-2-propanol	59		9.061				ND	
	30 trans-1,2-Dichloroethene	61		9.366				ND	
	31 Methyl tert-butyl ether	73		9.371				ND	7
	32 Hexane	57		9.890				ND	
	33 1,1-Dichloroethane	63		10.125				ND	
	34 Vinyl acetate	43		10.131				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	36 2-Butanone (MEK)	72		11.078				ND	
	37 cis-1,2-Dichloroethene	96		11.115				ND	7
	38 Ethyl acetate	88		11.169				ND	
*	39 Chlorobromomethane	128	11.516	11.522	-0.006	87	502439	10.0	
	40 Tetrahydrofuran	42		11.564				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Chloroform	83		11.698				ND	
	42 1,1,1-Trichloroethane	97		12.014				ND	
	43 Cyclohexane	84		12.169				ND	
	44 Carbon tetrachloride	117		12.297				ND	
	45 Benzene	78		12.634				ND	7
	46 1,2-Dichloroethane	62		12.699				ND	
	47 Isooctane	57		12.870				ND	
	48 n-Heptane	43		13.175				ND	7
*	49 1,4-Difluorobenzene	114	13.357	13.362	-0.005	96	2457971	10.0	
	51 Trichloroethene	95	13.806	13.801	0.005	81	1208	0.0181	
	53 1,2-Dichloropropane	63		14.245				ND	
	54 Methyl methacrylate	69		14.336				ND	
	55 1,4-Dioxane	88		14.368				ND	
	57 Dibromomethane	174	14.400	14.394	0.000	52	693	0.0111	
	58 Dichlorobromomethane	83		14.705				ND	
	59 cis-1,3-Dichloropropene	75		15.513				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		15.769				ND	
	62 Toluene	92		16.160				ND	7
	66 trans-1,3-Dichloropropene	75		16.556				ND	
	67 1,1,2-Trichloroethane	83		16.930				ND	
	68 Tetrachloroethene	166		17.155				ND	7
	69 2-Hexanone	43		17.337				ND	
	70 Chlorodibromomethane	129		17.669				ND	
	71 Ethylene Dibromide	107		17.909				ND	
*	73 Chlorobenzene-d5	117	18.830	18.829	0.001	90	2064630	10.0	
	74 Chlorobenzene	112		18.888				ND	
	75 Ethylbenzene	91		19.081				ND	
	76 m-Xylene & p-Xylene	106		19.348				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	78 o-Xylene	106		20.119				ND	
	79 Styrene	104		20.151				ND	
	81 Bromoform	173		20.483				ND	
	82 Isopropylbenzene	105		20.809				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.306				ND	7
	85 N-Propylbenzene	91		21.520				ND	
	86 2-Chlorotoluene	91		21.665				ND	
	87 4-Ethyltoluene	105		21.718				ND	
	88 1,3,5-Trimethylbenzene	105		21.809				ND	
	91 tert-Butylbenzene	119		22.291				ND	
	92 1,2,4-Trimethylbenzene	105		22.376				ND	
	93 sec-Butylbenzene	105		22.617				ND	
	94 1,3-Dichlorobenzene	146		22.783				ND	
	95 4-Isopropyltoluene	119		22.831				ND	
	96 1,4-Dichlorobenzene	146		22.922				ND	
	97 Benzyl chloride	91		23.066				ND	
	98 n-Butylbenzene	91		23.382				ND	
	99 1,2-Dichlorobenzene	146		23.414				ND	
	102 1,2,4-Trichlorobenzene	180		25.854				ND	
	103 Hexachlorobutadiene	225		26.110				ND	
	104 Naphthalene	128		26.324				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

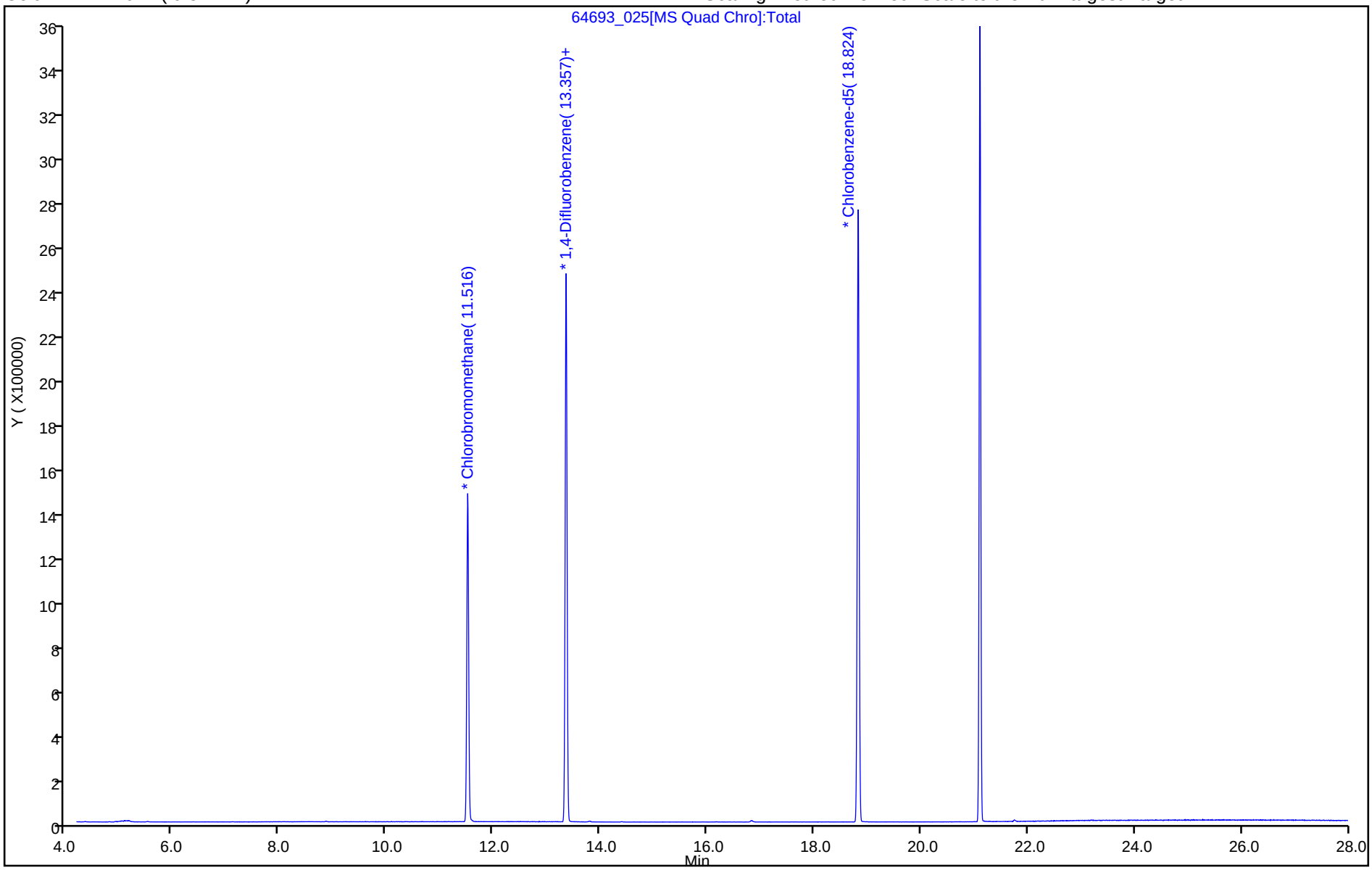
ATTO15CISs_00012 Amount Added: 20.00 Units: mL Run Reagent

Report Date: 14-Apr-2025 06:39:46 Chrom Revision: 2.3 08-Apr-2025 13:07:20

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHAN.i\20250412-64693.b\64693_025.D				
Injection Date:	13-Apr-2025 06:15:12	Instrument ID:	CHAN.i	Operator ID:	wrd
Lims ID:	200-77685-A-2	Lab Sample ID:	200-77685-2	Worklist Smp#:	25
Client ID:	2520				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	24
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



Summa Canister Dilution Worksheet

Client: Brydges Engineering in Environment & Ene
Project/Site: The Nest

Job No.: 200-77844-1

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
200-77844-1	6	-6.6	0.78	4.68	40.8	3.78	22.65		4.84	4.84	G43	04/26/25 13:10	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)

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Staub
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

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JOB DESCRIPTION

The Nest Site Analyses - 333 1St. Street

JOB NUMBER

480-229035-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

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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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

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.

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.

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: 480-229035-1 Eurofins Buffalo

Job Narrative
480-229035-1

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 4/28/2025 12:03 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.4°C.

Receipt Exceptions
The following sample(s) was received at the laboratory without a sample collection time documented on the chain of custody:Lab received sample set and COC. COC did not have sample collection time. The client was contacted, and the laboratory was instructed to use a sample collection time of 11:00am.

GC/MS VOA
Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: OFFsite well-1 (480-229035-1). 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
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-744994 recovered outside acceptance criteria, low biased, for 3-Nitroaniline. 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 minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 480-744994 was outside criteria for the following analyte(s): Bis(2-chloroethoxy)methane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

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.

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

Client Sample ID: OFFsite well-1
Lab Sample ID: 480-229035-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	77		5.0	3.8	ug/L	5		8260C	Total/NA
Chloroform	1.7	J	5.0	1.7	ug/L	5		8260C	Total/NA
Cyclohexane	1.1	J	5.0	0.90	ug/L	5		8260C	Total/NA
Isopropylbenzene	12		5.0	4.0	ug/L	5		8260C	Total/NA
m,p-Xylene	3.6	J	10	3.3	ug/L	5		8260C	Total/NA
N-Propylbenzene	14		5.0	3.5	ug/L	5		8260C	Total/NA
sec-Butylbenzene	5.1		5.0	3.8	ug/L	5		8260C	Total/NA
Xylenes, Total	3.6	J	10	3.3	ug/L	5		8260C	Total/NA
4-Chloroaniline	0.86	J	5.0	0.59	ug/L	1		8270D	Total/NA
Benzaldehyde	1.3	J	5.0	0.27	ug/L	1		8270D	Total/NA
Naphthalene	0.92	J	5.0	0.76	ug/L	1		8270D	Total/NA
Perfluorobutanoic acid (PFBA)	7.5		6.1	1.6	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	3.9		3.0	0.76	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	5.7		1.5	0.38	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.5		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	28		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	1.3	J	1.5	0.38	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.8		1.5	0.38	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.0	J	1.5	0.38	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.2		1.5	0.39	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.89	J	1.5	0.38	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	86		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	1.4	J	1.5	0.38	ng/L	1		1633	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.4		1.5	0.47	ng/L	1		1633	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	7.0		1.5	0.39	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

Client Sample ID: OFFsite well-1
Lab Sample ID: 480-229035-1

Date Collected: 04/28/25 11:00
Matrix: Water
Date Received: 04/28/25 12:03

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	4.1	ug/L			05/01/25 03:23	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			05/01/25 03:23	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			05/01/25 03:23	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			05/01/25 03:23	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			05/01/25 03:23	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			05/01/25 03:23	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			05/01/25 03:23	5
1,2,4-Trimethylbenzene	**77**		5.0	3.8	ug/L			05/01/25 03:23	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			05/01/25 03:23	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			05/01/25 03:23	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			05/01/25 03:23	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			05/01/25 03:23	5
1,3,5-Trimethylbenzene	ND		5.0	3.9	ug/L			05/01/25 03:23	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			05/01/25 03:23	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			05/01/25 03:23	5
2-Butanone (MEK)	ND		50	6.6	ug/L			05/01/25 03:23	5
2-Hexanone	ND		25	6.2	ug/L			05/01/25 03:23	5
4-Isopropyltoluene	ND		5.0	1.6	ug/L			05/01/25 03:23	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			05/01/25 03:23	5
Acetone	ND		50	15	ug/L			05/01/25 03:23	5
Benzene	ND		5.0	2.1	ug/L			05/01/25 03:23	5
Bromoform	ND		5.0	1.3	ug/L			05/01/25 03:23	5
Bromomethane	ND		5.0	3.5	ug/L			05/01/25 03:23	5
Carbon disulfide	ND		5.0	0.95	ug/L			05/01/25 03:23	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			05/01/25 03:23	5
Chlorobenzene	ND		5.0	3.8	ug/L			05/01/25 03:23	5
Dibromochloromethane	ND		5.0	1.6	ug/L			05/01/25 03:23	5
Chloroethane	ND		5.0	1.6	ug/L			05/01/25 03:23	5
Chloroform	**1.7**	**J**	5.0	1.7	ug/L			05/01/25 03:23	5
Chloromethane	ND		5.0	1.8	ug/L			05/01/25 03:23	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			05/01/25 03:23	5
Cyclohexane	**1.1**	**J**	5.0	0.90	ug/L			05/01/25 03:23	5
Bromodichloromethane	ND		5.0	2.0	ug/L			05/01/25 03:23	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			05/01/25 03:23	5
Ethylbenzene	ND		5.0	3.7	ug/L			05/01/25 03:23	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			05/01/25 03:23	5
Isopropylbenzene	**12**		5.0	4.0	ug/L			05/01/25 03:23	5
Methyl acetate	ND		13	6.5	ug/L			05/01/25 03:23	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			05/01/25 03:23	5
Methylcyclohexane	ND		5.0	0.80	ug/L			05/01/25 03:23	5
Methylene Chloride	ND		5.0	2.2	ug/L			05/01/25 03:23	5
m,p-Xylene	**3.6**	**J**	10	3.3	ug/L			05/01/25 03:23	5
Naphthalene	ND		5.0	2.2	ug/L			05/01/25 03:23	5
n-Butylbenzene	ND		5.0	3.2	ug/L			05/01/25 03:23	5
N-Propylbenzene	**14**		5.0	3.5	ug/L			05/01/25 03:23	5
o-Xylene	ND		5.0	3.8	ug/L			05/01/25 03:23	5
sec-Butylbenzene	**5.1**		5.0	3.8	ug/L			05/01/25 03:23	5
Tetrachloroethene	ND		5.0	1.8	ug/L			05/01/25 03:23	5
Toluene	ND		5.0	2.6	ug/L			05/01/25 03:23	5

Client Sample ID: OFFsite well-1
Lab Sample ID: 480-229035-1
Date Collected: 04/28/25 11:00
Matrix: Water
Date Received: 04/28/25 12:03

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	4.5	ug/L			05/01/25 03:23	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			05/01/25 03:23	5
Trichloroethene	ND		5.0	2.3	ug/L			05/01/25 03:23	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			05/01/25 03:23	5
Vinyl chloride	ND		5.0	4.5	ug/L			05/01/25 03:23	5
Xylenes, Total	**3.6**	**J**	10	3.3	ug/L			05/01/25 03:23	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			05/01/25 03:23	5
Styrene	ND		5.0	3.7	ug/L			05/01/25 03:23	5
tert-Butylbenzene	ND		5.0	4.1	ug/L			05/01/25 03:23	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzene, 1-ethyl-2-methyl-	*16*	*T J N*	*ug/L*		*8.49*	*611-14-3*		*05/01/25 03:23*	*5*
Benzene, 1,2,3-trimethyl-	*73*	*T J N*	*ug/L*		*8.99*	*526-73-8*		*05/01/25 03:23*	*5*
Indane	*25*	*T J N*	*ug/L*		*9.16*	*496-11-7*		*05/01/25 03:23*	*5*
Benzene, 1-methyl-2-(1-methylethyl)-	*24*	*T J N*	*ug/L*		*9.46*	*527-84-4*		*05/01/25 03:23*	*5*
Benzene, 1-ethyl-2,3-dimethyl-	*22*	*T J N*	*ug/L*		*9.53*	*933-98-2*		*05/01/25 03:23*	*5*
Benzene, 1-methyl-2-(2-propenyl)-	*27*	*T J N*	*ug/L*		*9.63*	*1587-04-8*		*05/01/25 03:23*	*5*
Unknown Carboxylic Acid	*14*	*T J*	*ug/L*		*9.86*	*N/A*		*05/01/25 03:23*	*5*
Benzene, 1,2,3,4-tetramethyl-	*35*	*T J N*	*ug/L*		*9.91*	*488-23-3*		*05/01/25 03:23*	*5*
Benzene, 1,2,4,5-tetramethyl-	*34*	*T J N*	*ug/L*		*10.27*	*95-93-2*		*05/01/25 03:23*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*05/01/25 03:23*	*5*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*05/01/25 03:23*	*5*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/01/25 03:23*	*5*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*05/01/25 03:23*	*5*

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		04/30/25 09:20	05/01/25 17:10	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		04/30/25 09:20	05/01/25 17:10	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		04/30/25 09:20	05/01/25 17:10	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		04/30/25 09:20	05/01/25 17:10	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		04/30/25 09:20	05/01/25 17:10	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		04/30/25 09:20	05/01/25 17:10	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		04/30/25 09:20	05/01/25 17:10	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		04/30/25 09:20	05/01/25 17:10	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		04/30/25 09:20	05/01/25 17:10	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		04/30/25 09:20	05/01/25 17:10	1
2-Chlorophenol	ND		5.0	0.53	ug/L		04/30/25 09:20	05/01/25 17:10	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		04/30/25 09:20	05/01/25 17:10	1
2-Methylphenol	ND		5.0	0.40	ug/L		04/30/25 09:20	05/01/25 17:10	1
2-Nitroaniline	ND		10	0.42	ug/L		04/30/25 09:20	05/01/25 17:10	1
2-Nitrophenol	ND		5.0	0.48	ug/L		04/30/25 09:20	05/01/25 17:10	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		04/30/25 09:20	05/01/25 17:10	1
3-Nitroaniline	ND		10	0.48	ug/L		04/30/25 09:20	05/01/25 17:10	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		04/30/25 09:20	05/01/25 17:10	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		04/30/25 09:20	05/01/25 17:10	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		04/30/25 09:20	05/01/25 17:10	1
4-Chloroaniline	**0.86**	**J**	5.0	0.59	ug/L		04/30/25 09:20	05/01/25 17:10	1

Client Sample ID: OFFsite well-1
Lab Sample ID: 480-229035-1

Date Collected: 04/28/25 11:00
Matrix: Water

Date Received: 04/28/25 12:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		04/30/25 09:20	05/01/25 17:10	1
4-Methylphenol	ND		10	0.36	ug/L		04/30/25 09:20	05/01/25 17:10	1
4-Nitroaniline	ND		10	0.25	ug/L		04/30/25 09:20	05/01/25 17:10	1
4-Nitrophenol	ND		10	1.5	ug/L		04/30/25 09:20	05/01/25 17:10	1
Acenaphthene	ND		5.0	0.41	ug/L		04/30/25 09:20	05/01/25 17:10	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/30/25 09:20	05/01/25 17:10	1
Acetophenone	ND		5.0	0.54	ug/L		04/30/25 09:20	05/01/25 17:10	1
Anthracene	ND		5.0	0.28	ug/L		04/30/25 09:20	05/01/25 17:10	1
Atrazine	ND		5.0	0.46	ug/L		04/30/25 09:20	05/01/25 17:10	1
Benzaldehyde	**1.3**	**J**	5.0	0.27	ug/L		04/30/25 09:20	05/01/25 17:10	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		04/30/25 09:20	05/01/25 17:10	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		04/30/25 09:20	05/01/25 17:10	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		04/30/25 09:20	05/01/25 17:10	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		04/30/25 09:20	05/01/25 17:10	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		04/30/25 09:20	05/01/25 17:10	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		04/30/25 09:20	05/01/25 17:10	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		04/30/25 09:20	05/01/25 17:10	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		04/30/25 09:20	05/01/25 17:10	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		04/30/25 09:20	05/01/25 17:10	1
Caprolactam	ND		5.0	2.2	ug/L		04/30/25 09:20	05/01/25 17:10	1
Carbazole	ND		5.0	0.30	ug/L		04/30/25 09:20	05/01/25 17:10	1
Chrysene	ND		5.0	0.33	ug/L		04/30/25 09:20	05/01/25 17:10	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		04/30/25 09:20	05/01/25 17:10	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		04/30/25 09:20	05/01/25 17:10	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/30/25 09:20	05/01/25 17:10	1
Dibenzofuran	ND		10	0.51	ug/L		04/30/25 09:20	05/01/25 17:10	1
Diethyl phthalate	ND		5.0	0.22	ug/L		04/30/25 09:20	05/01/25 17:10	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		04/30/25 09:20	05/01/25 17:10	1
Fluoranthene	ND		5.0	0.40	ug/L		04/30/25 09:20	05/01/25 17:10	1
Fluorene	ND		5.0	0.36	ug/L		04/30/25 09:20	05/01/25 17:10	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		04/30/25 09:20	05/01/25 17:10	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		04/30/25 09:20	05/01/25 17:10	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		04/30/25 09:20	05/01/25 17:10	1
Hexachloroethane	ND		5.0	0.59	ug/L		04/30/25 09:20	05/01/25 17:10	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		04/30/25 09:20	05/01/25 17:10	1
Isophorone	ND		5.0	0.43	ug/L		04/30/25 09:20	05/01/25 17:10	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		04/30/25 09:20	05/01/25 17:10	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		04/30/25 09:20	05/01/25 17:10	1
Naphthalene	**0.92**	**J**	5.0	0.76	ug/L		04/30/25 09:20	05/01/25 17:10	1
Nitrobenzene	ND		5.0	0.29	ug/L		04/30/25 09:20	05/01/25 17:10	1
Pentachlorophenol	ND		10	2.2	ug/L		04/30/25 09:20	05/01/25 17:10	1
Phenanthrene	ND		5.0	0.44	ug/L		04/30/25 09:20	05/01/25 17:10	1
Phenol	ND		5.0	0.39	ug/L		04/30/25 09:20	05/01/25 17:10	1
Pyrene	ND		5.0	0.34	ug/L		04/30/25 09:20	05/01/25 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*25 - 144*	*04/30/25 09:20*	*05/01/25 17:10*	*1*
2-Fluorobiphenyl	*83*		*53 - 126*	*04/30/25 09:20*	*05/01/25 17:10*	*1*
2-Fluorophenol	*55*		*24 - 120*	*04/30/25 09:20*	*05/01/25 17:10*	*1*
Nitrobenzene-d5	*63*		*29 - 129*	*04/30/25 09:20*	*05/01/25 17:10*	*1*

Client Sample ID: OFFsite well-1
Lab Sample ID: 480-229035-1

Date Collected: 04/28/25 11:00
Matrix: Water
Date Received: 04/28/25 12:03

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	*48*		*33 - 132*	*04/30/25 09:20*	*05/01/25 17:10*	*1*
Phenol-d5	*38*		*10 - 120*	*04/30/25 09:20*	*05/01/25 17:10*	*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)	**7.5**		6.1	1.6	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluoropentanoic acid (PFPeA)	**3.9**		3.0	0.76	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorohexanoic acid (PFHxA)	**5.7**		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluoroheptanoic acid (PFHpA)	**3.5**		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorooctanoic acid (PFOA)	**28**		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorononanoic acid (PFNA)	**1.3**	**J**	1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorodecanoic acid (PFDA)	ND		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorobutanesulfonic acid (PFBS)	**3.8**		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluoropentanesulfonic acid (PFPeS)	**1.0**	**J**	1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorohexanesulfonic acid (PFHxS)	**4.2**		1.5	0.39	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.89**	**J**	1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorooctanesulfonic acid (PFOS)	**86**		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.1	1.5	ng/L		05/01/25 07:59	05/01/25 10:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.1	1.5	ng/L		05/01/25 07:59	05/01/25 10:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.1	1.5	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorooctanesulfonamide (PFOSA)	**1.4**	**J**	1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**2.4**		1.5	0.47	ng/L		05/01/25 07:59	05/01/25 10:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**7.0**		1.5	0.39	ng/L		05/01/25 07:59	05/01/25 10:23	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		15	3.8	ng/L		05/01/25 07:59	05/01/25 10:23	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		15	3.8	ng/L		05/01/25 07:59	05/01/25 10:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.1	1.5	ng/L		05/01/25 07:59	05/01/25 10:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.1	1.5	ng/L		05/01/25 07:59	05/01/25 10:23	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

Client Sample ID: OFFsite well-1
Lab Sample ID: 480-229035-1
Date Collected: 04/28/25 11:00
Matrix: Water
Date Received: 04/28/25 12:03

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		3.0	0.76	ng/L		05/01/25 07:59	05/01/25 10:23	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.0	0.92	ng/L		05/01/25 07:59	05/01/25 10:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		6.1	1.5	ng/L		05/01/25 07:59	05/01/25 10:23	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		6.1	1.5	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.0	0.76	ng/L		05/01/25 07:59	05/01/25 10:23	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		7.6	1.9	ng/L		05/01/25 07:59	05/01/25 10:23	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		38	9.5	ng/L		05/01/25 07:59	05/01/25 10:23	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		38	11	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.38	ng/L		05/01/25 07:59	05/01/25 10:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.0	0.76	ng/L		05/01/25 07:59	05/01/25 10:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*100*		*10 - 130*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C5 PFPeA	*95.0*		*35 - 150*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C5 PFHxA	*94.5*		*55 - 150*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C4 PFHpA	*93.8*		*55 - 150*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C8 PFOA	*101*		*60 - 140*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C9 PFNA	*95.7*		*55 - 140*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C6 PFDA	*84.4*		*50 - 140*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C7 PFUnA	*79.1*		*30 - 140*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C2 PFTeDA	*64.6*		*10 - 130*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C3 PFBS	*104*		*55 - 150*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C3 PFHxS	*99.8*		*55 - 150*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C8 PFOS	*92.6*		*45 - 140*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C8 PFOSA	*82.5*		*30 - 130*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
d3-NMeFOSAA	*97.4*		*45 - 200*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
d5-NEtFOSAA	*84.5*		*10 - 200*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
M2-4:2 FTS	*189*		*60 - 200*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
M2-6:2 FTS	*132*		*60 - 200*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
M2-8:2 FTS	*162*		*50 - 200*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C3 HFPO-DA	*92.3*		*25 - 160*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
d7-N-MeFOSE-M	*50.1*		*10 - 150*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
d9-N-EtFOSE-M	*44.7*		*10 - 150*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
d5-NEtPFOSA	*67.3*		*10 - 130*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
D3-NMeFOSA	*65.8*		*15 - 130*	*05/01/25 07:59*	*05/01/25 10:23*	*1*
13C2-PFDoDA	*70.2*		*10 - 150*	*05/01/25 07:59*	*05/01/25 10:23*	*1*

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

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)
480-229035-1	OFFsite well-1	108	97	100	108
LCS 480-744886/6	Lab Control Sample	102	101	101	99
MB 480-744886/8	Method Blank	107	101	102	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)
480-229035-1	OFFsite well-1	87	83	55	63	48	38
LCS 480-744844/2-A	Lab Control Sample	99	91	68	87	95	51
MB 480-744844/1-A	Method Blank	83	74	51	62	98	35

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

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

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(10-130)	(35-150)	(55-150)	(55-150)	(60-140)	(55-140)	(50-140)	(30-140)
480-229035-1	OFFsite well-1	100	95.0	94.5	93.8	101	95.7	84.4	79.1
MB 240-654291/1-A	Method Blank	97.9	103	103	99.8	95.2	89.7	85.8	84.0

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFTDA	C3PFBS	C3PFHS	C8PFOS	PFOSA	d3NMFOS	d5NEFOS	M242FTS
Lab Sample ID	Client Sample ID	(10-130)	(55-150)	(55-150)	(45-140)	(30-130)	(45-200)	(10-200)	(60-200)
480-229035-1	OFFsite well-1	64.6	104	99.8	92.6	82.5	97.4	84.5	189
MB 240-654291/1-A	Method Blank	67.7	101	96.5	93.6	88.6	80.2	78.4	108

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS	M282FTS	HFPODA	NMFM	NEFM	d5NPFSA	d3NMFSA	PFDoDA
Lab Sample ID	Client Sample ID	(60-200)	(50-200)	(25-160)	(10-150)	(10-150)	(10-130)	(15-130)	(10-150)
480-229035-1	OFFsite well-1	132	162	92.3	50.1	44.7	67.3	65.8	70.2
MB 240-654291/1-A	Method Blank	97.9	87.9	105	62.6	55.4	69.9	76.3	78.6

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

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

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(10-130)	(40-150)	(40-150)	(40-150)	(30-140)	(30-140)	(20-140)	(20-140)
LCS 240-654291/3-A	Lab Control Sample	100	104	102	112	95.9	93.7	92.9	86.6
LLCS 240-654291/2-A	Lab Control Sample	97.9	104	104	102	97.8	99.6	97.5	94.0

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

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 (25-150)	C3PFHS (25-150)	C8PFOS (20-140)	PFOSA (10-130)	d3NMFOS (10-200)	d5NEFOS (10-200)	M242FTS (25-200)
LCS 240-654291/3-A	Lab Control Sample	76.3	96.5	95.1	97.0	88.5	85.7	83.8	99.5
LLCS 240-654291/2-A	Lab Control Sample	91.4	99.1	97.8	96.6	88.7	86.1	80.7	99.1

		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 240-654291/3-A	Lab Control Sample	93.2	89.6	106	66.6	59.7	72.1	73.5	82.8
LLCS 240-654291/2-A	Lab Control Sample	105	91.4	110	80.9	78.7	72.2	71.5	93.2

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 480-744886/8
Matrix: Water
Analysis Batch: 744886

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			04/30/25 23:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/30/25 23:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/30/25 23:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/30/25 23:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/30/25 23:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/30/25 23:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/30/25 23:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/30/25 23:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/30/25 23:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/30/25 23:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/30/25 23:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/30/25 23:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/30/25 23:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/30/25 23:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/30/25 23:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/30/25 23:41	1
2-Hexanone	ND		5.0	1.2	ug/L			04/30/25 23:41	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			04/30/25 23:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/30/25 23:41	1
Acetone	ND		10	3.0	ug/L			04/30/25 23:41	1
Benzene	ND		1.0	0.41	ug/L			04/30/25 23:41	1
Bromoform	ND		1.0	0.26	ug/L			04/30/25 23:41	1
Bromomethane	ND		1.0	0.69	ug/L			04/30/25 23:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/30/25 23:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/30/25 23:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/30/25 23:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/30/25 23:41	1
Chloroethane	ND		1.0	0.32	ug/L			04/30/25 23:41	1
Chloroform	ND		1.0	0.34	ug/L			04/30/25 23:41	1
Chloromethane	ND		1.0	0.35	ug/L			04/30/25 23:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/30/25 23:41	1
Cyclohexane	ND		1.0	0.18	ug/L			04/30/25 23:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/30/25 23:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/30/25 23:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/30/25 23:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/30/25 23:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/30/25 23:41	1
Methyl acetate	ND		2.5	1.3	ug/L			04/30/25 23:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/30/25 23:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/30/25 23:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/30/25 23:41	1
m,p-Xylene	ND		2.0	0.66	ug/L			04/30/25 23:41	1
Naphthalene	ND		1.0	0.43	ug/L			04/30/25 23:41	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/30/25 23:41	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/30/25 23:41	1
o-Xylene	ND		1.0	0.76	ug/L			04/30/25 23:41	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			04/30/25 23:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/30/25 23:41	1

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

Lab Sample ID: MB 480-744886/8
Matrix: Water
Analysis Batch: 744886

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			04/30/25 23:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/30/25 23:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/30/25 23:41	1
Trichloroethene	ND		1.0	0.46	ug/L			04/30/25 23:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/30/25 23:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/30/25 23:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/30/25 23:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/30/25 23:41	1
Styrene	ND		1.0	0.73	ug/L			04/30/25 23:41	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			04/30/25 23:41	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*		*04/30/25 23:41*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*04/30/25 23:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*04/30/25 23:41*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/30/25 23:41*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*04/30/25 23:41*	*1*

Lab Sample ID: LCS 480-744886/6
Matrix: Water
Analysis Batch: 744886

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	23.9		ug/L		96	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.9		ug/L		99	61 - 148
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	76 - 122
1,1-Dichloroethane	25.0	24.5		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	24.3		ug/L		97	66 - 127
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		94	79 - 122
1,2,4-Trimethylbenzene	25.0	24.3		ug/L		97	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	25.6		ug/L		103	56 - 134
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	25.4		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	24.0		ug/L		96	76 - 120
1,3,5-Trimethylbenzene	25.0	24.8		ug/L		99	77 - 121
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 120
2-Butanone (MEK)	125	135		ug/L		108	57 - 140
2-Hexanone	125	132		ug/L		106	65 - 127
4-Isopropyltoluene	25.0	25.2		ug/L		101	73 - 120
4-Methyl-2-pentanone (MIBK)	125	131		ug/L		105	71 - 125
Acetone	125	128		ug/L		102	56 - 142
Benzene	25.0	23.4		ug/L		94	71 - 124
Bromoform	25.0	23.3		ug/L		93	61 - 132

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

Lab Sample ID: LCS 480-744886/6
Matrix: Water
Analysis Batch: 744886

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	25.9		ug/L		104	55 - 144
Carbon disulfide	25.0	23.2		ug/L		93	59 - 134
Carbon tetrachloride	25.0	24.5		ug/L		98	72 - 134
Chlorobenzene	25.0	24.4		ug/L		98	80 - 120
Dibromochloromethane	25.0	25.1		ug/L		100	75 - 125
Chloroethane	25.0	25.6		ug/L		103	69 - 136
Chloroform	25.0	26.5		ug/L		106	73 - 127
Chloromethane	25.0	27.5		ug/L		110	68 - 124
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	74 - 124
Cyclohexane	25.0	24.5		ug/L		98	59 - 135
Bromodichloromethane	25.0	24.5		ug/L		98	80 - 122
Dichlorodifluoromethane	25.0	25.4		ug/L		102	59 - 135
Ethylbenzene	25.0	24.7		ug/L		99	77 - 123
1,2-Dibromoethane	25.0	24.8		ug/L		99	77 - 120
Isopropylbenzene	25.0	25.1		ug/L		100	77 - 122
Methyl acetate	50.0	49.4		ug/L		99	74 - 133
Methyl tert-butyl ether	25.0	24.2		ug/L		97	77 - 120
Methylcyclohexane	25.0	25.0		ug/L		100	68 - 134
Methylene Chloride	25.0	25.8		ug/L		103	75 - 124
m,p-Xylene	25.0	24.5		ug/L		98	76 - 122
Naphthalene	25.0	23.5		ug/L		94	66 - 125
n-Butylbenzene	25.0	24.7		ug/L		99	71 - 128
N-Propylbenzene	25.0	24.8		ug/L		99	75 - 127
o-Xylene	25.0	24.3		ug/L		97	76 - 122
sec-Butylbenzene	25.0	25.7		ug/L		103	74 - 127
Tetrachloroethene	25.0	24.4		ug/L		98	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	73 - 127
trans-1,3-Dichloropropene	25.0	25.0		ug/L		100	80 - 120
Trichloroethene	25.0	24.3		ug/L		97	74 - 123
Trichlorofluoromethane	25.0	25.8		ug/L		103	62 - 150
Vinyl chloride	25.0	24.8		ug/L		99	65 - 133
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	74 - 124
Styrene	25.0	24.6		ug/L		98	80 - 120
tert-Butylbenzene	25.0	26.1		ug/L		104	75 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

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

Lab Sample ID: MB 480-744844/1-A
Matrix: Water
Analysis Batch: 744994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 744844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		04/30/25 09:20	05/01/25 14:28	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		04/30/25 09:20	05/01/25 14:28	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		04/30/25 09:20	05/01/25 14:28	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		04/30/25 09:20	05/01/25 14:28	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		04/30/25 09:20	05/01/25 14:28	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		04/30/25 09:20	05/01/25 14:28	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		04/30/25 09:20	05/01/25 14:28	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		04/30/25 09:20	05/01/25 14:28	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		04/30/25 09:20	05/01/25 14:28	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		04/30/25 09:20	05/01/25 14:28	1
2-Chlorophenol	ND		5.0	0.53	ug/L		04/30/25 09:20	05/01/25 14:28	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		04/30/25 09:20	05/01/25 14:28	1
2-Methylphenol	ND		5.0	0.40	ug/L		04/30/25 09:20	05/01/25 14:28	1
2-Nitroaniline	ND		10	0.42	ug/L		04/30/25 09:20	05/01/25 14:28	1
2-Nitrophenol	ND		5.0	0.48	ug/L		04/30/25 09:20	05/01/25 14:28	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		04/30/25 09:20	05/01/25 14:28	1
3-Nitroaniline	ND		10	0.48	ug/L		04/30/25 09:20	05/01/25 14:28	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		04/30/25 09:20	05/01/25 14:28	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		04/30/25 09:20	05/01/25 14:28	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		04/30/25 09:20	05/01/25 14:28	1
4-Chloroaniline	ND		5.0	0.59	ug/L		04/30/25 09:20	05/01/25 14:28	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		04/30/25 09:20	05/01/25 14:28	1
4-Methylphenol	ND		10	0.36	ug/L		04/30/25 09:20	05/01/25 14:28	1
4-Nitroaniline	ND		10	0.25	ug/L		04/30/25 09:20	05/01/25 14:28	1
4-Nitrophenol	ND		10	1.5	ug/L		04/30/25 09:20	05/01/25 14:28	1
Acenaphthene	ND		5.0	0.41	ug/L		04/30/25 09:20	05/01/25 14:28	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/30/25 09:20	05/01/25 14:28	1
Acetophenone	ND		5.0	0.54	ug/L		04/30/25 09:20	05/01/25 14:28	1
Anthracene	ND		5.0	0.28	ug/L		04/30/25 09:20	05/01/25 14:28	1
Atrazine	ND		5.0	0.46	ug/L		04/30/25 09:20	05/01/25 14:28	1
Benzaldehyde	ND		5.0	0.27	ug/L		04/30/25 09:20	05/01/25 14:28	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		04/30/25 09:20	05/01/25 14:28	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		04/30/25 09:20	05/01/25 14:28	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		04/30/25 09:20	05/01/25 14:28	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		04/30/25 09:20	05/01/25 14:28	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		04/30/25 09:20	05/01/25 14:28	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		04/30/25 09:20	05/01/25 14:28	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		04/30/25 09:20	05/01/25 14:28	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		04/30/25 09:20	05/01/25 14:28	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		04/30/25 09:20	05/01/25 14:28	1
Caprolactam	ND		5.0	2.2	ug/L		04/30/25 09:20	05/01/25 14:28	1
Carbazole	ND		5.0	0.30	ug/L		04/30/25 09:20	05/01/25 14:28	1
Chrysene	ND		5.0	0.33	ug/L		04/30/25 09:20	05/01/25 14:28	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		04/30/25 09:20	05/01/25 14:28	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		04/30/25 09:20	05/01/25 14:28	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/30/25 09:20	05/01/25 14:28	1
Dibenzofuran	ND		10	0.51	ug/L		04/30/25 09:20	05/01/25 14:28	1
Diethyl phthalate	ND		5.0	0.22	ug/L		04/30/25 09:20	05/01/25 14:28	1

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

Lab Sample ID: MB 480-744844/1-A
Matrix: Water
Analysis Batch: 744994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 744844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		5.0	0.36	ug/L		04/30/25 09:20	05/01/25 14:28	1
Fluoranthene	ND		5.0	0.40	ug/L		04/30/25 09:20	05/01/25 14:28	1
Fluorene	ND		5.0	0.36	ug/L		04/30/25 09:20	05/01/25 14:28	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		04/30/25 09:20	05/01/25 14:28	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		04/30/25 09:20	05/01/25 14:28	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		04/30/25 09:20	05/01/25 14:28	1
Hexachloroethane	ND		5.0	0.59	ug/L		04/30/25 09:20	05/01/25 14:28	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		04/30/25 09:20	05/01/25 14:28	1
Isophorone	ND		5.0	0.43	ug/L		04/30/25 09:20	05/01/25 14:28	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		04/30/25 09:20	05/01/25 14:28	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		04/30/25 09:20	05/01/25 14:28	1
Naphthalene	ND		5.0	0.76	ug/L		04/30/25 09:20	05/01/25 14:28	1
Nitrobenzene	ND		5.0	0.29	ug/L		04/30/25 09:20	05/01/25 14:28	1
Pentachlorophenol	ND		10	2.2	ug/L		04/30/25 09:20	05/01/25 14:28	1
Phenanthrene	ND		5.0	0.44	ug/L		04/30/25 09:20	05/01/25 14:28	1
Phenol	ND		5.0	0.39	ug/L		04/30/25 09:20	05/01/25 14:28	1
Pyrene	ND		5.0	0.34	ug/L		04/30/25 09:20	05/01/25 14:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*25 - 144*	*04/30/25 09:20*	*05/01/25 14:28*	*1*
2-Fluorobiphenyl	*74*		*53 - 126*	*04/30/25 09:20*	*05/01/25 14:28*	*1*
2-Fluorophenol	*51*		*24 - 120*	*04/30/25 09:20*	*05/01/25 14:28*	*1*
Nitrobenzene-d5	*62*		*29 - 129*	*04/30/25 09:20*	*05/01/25 14:28*	*1*
p-Terphenyl-d14	*98*		*33 - 132*	*04/30/25 09:20*	*05/01/25 14:28*	*1*
Phenol-d5	*35*		*10 - 120*	*04/30/25 09:20*	*05/01/25 14:28*	*1*

Lab Sample ID: LCS 480-744844/2-A
Matrix: Water
Analysis Batch: 744994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 744844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	32.0	28.7		ug/L		90	59 - 120
bis (2-chloroisopropyl) ether	32.0	26.2		ug/L		82	21 - 136
2,4,5-Trichlorophenol	32.0	31.4		ug/L		98	65 - 126
2,4,6-Trichlorophenol	32.0	32.1		ug/L		100	64 - 120
2,4-Dichlorophenol	32.0	28.9		ug/L		90	63 - 120
2,4-Dimethylphenol	32.0	29.7		ug/L		93	47 - 120
2,4-Dinitrophenol	64.0	57.8		ug/L		90	31 - 137
2,4-Dinitrotoluene	32.0	33.5		ug/L		105	69 - 120
2,6-Dinitrotoluene	32.0	31.3		ug/L		98	68 - 120
2-Chloronaphthalene	32.0	28.8		ug/L		90	58 - 120
2-Chlorophenol	32.0	26.6		ug/L		83	48 - 120
2-Methylnaphthalene	32.0	29.2		ug/L		91	59 - 120
2-Methylphenol	32.0	26.0		ug/L		81	39 - 120
2-Nitroaniline	32.0	31.0		ug/L		97	54 - 127
2-Nitrophenol	32.0	30.6		ug/L		95	52 - 125
3,3'-Dichlorobenzidine	32.0	27.6		ug/L		86	49 - 135
3-Nitroaniline	32.0	24.8		ug/L		77	51 - 120

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

Lab Sample ID: LCS 480-744844/2-A
Matrix: Water
Analysis Batch: 744994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 744844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	64.0	66.4		ug/L		104	46 - 136
4-Bromophenyl phenyl ether	32.0	31.7		ug/L		99	65 - 120
4-Chloro-3-methylphenol	32.0	30.1		ug/L		94	61 - 123
4-Chloroaniline	32.0	20.5		ug/L		64	30 - 120
4-Chlorophenyl phenyl ether	32.0	30.5		ug/L		95	62 - 120
4-Methylphenol	32.0	25.5		ug/L		80	29 - 131
4-Nitroaniline	32.0	30.6		ug/L		96	65 - 120
4-Nitrophenol	64.0	44.7		ug/L		70	45 - 120
Acenaphthene	32.0	31.0		ug/L		97	60 - 120
Acenaphthylene	32.0	30.3		ug/L		95	63 - 120
Acetophenone	32.0	29.9		ug/L		94	45 - 120
Anthracene	32.0	34.5		ug/L		108	67 - 120
Atrazine	32.0	29.2		ug/L		91	71 - 130
Benzaldehyde	32.0	22.6		ug/L		71	10 - 140
Benzo(a)anthracene	32.0	33.2		ug/L		104	70 - 121
Benzo(a)pyrene	32.0	31.9		ug/L		100	60 - 123
Benzo(b)fluoranthene	32.0	31.0		ug/L		97	66 - 126
Benzo(g,h,i)perylene	32.0	32.4		ug/L		101	66 - 150
Benzo(k)fluoranthene	32.0	33.6		ug/L		105	65 - 124
Bis(2-chloroethoxy)methane	32.0	30.1		ug/L		94	50 - 128
Bis(2-chloroethyl)ether	32.0	30.5		ug/L		95	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	29.4		ug/L		92	63 - 139
Butyl benzyl phthalate	32.0	30.9		ug/L		96	70 - 129
Caprolactam	32.0	8.55		ug/L		27	22 - 120
Carbazole	32.0	33.7		ug/L		105	66 - 123
Chrysene	32.0	33.0		ug/L		103	69 - 120
Di-n-butyl phthalate	32.0	31.5		ug/L		98	69 - 131
Di-n-octyl phthalate	32.0	28.2		ug/L		88	63 - 140
Dibenz(a,h)anthracene	32.0	31.0		ug/L		97	65 - 135
Dibenzofuran	32.0	31.3		ug/L		98	66 - 120
Diethyl phthalate	32.0	32.1		ug/L		100	59 - 127
Dimethyl phthalate	32.0	31.7		ug/L		99	68 - 120
Fluoranthene	32.0	34.9		ug/L		109	69 - 126
Fluorene	32.0	31.7		ug/L		99	66 - 120
Hexachlorobenzene	32.0	31.9		ug/L		100	61 - 120
Hexachlorobutadiene	32.0	23.8		ug/L		74	35 - 120
Hexachlorocyclopentadiene	32.0	17.2		ug/L		54	31 - 120
Hexachloroethane	32.0	25.0		ug/L		78	33 - 120
Indeno(1,2,3-cd)pyrene	32.0	31.1		ug/L		97	69 - 146
Isophorone	32.0	29.7		ug/L		93	55 - 120
N-Nitrosodi-n-propylamine	32.0	29.3		ug/L		92	32 - 140
N-Nitrosodiphenylamine	32.0	32.1		ug/L		100	61 - 120
Naphthalene	32.0	28.7		ug/L		90	57 - 120
Nitrobenzene	32.0	28.1		ug/L		88	53 - 123
Pentachlorophenol	64.0	68.8		ug/L		108	10 - 136
Phenanthrene	32.0	33.0		ug/L		103	68 - 120
Phenol	32.0	16.3		ug/L		51	17 - 120
Pyrene	32.0	34.1		ug/L		107	70 - 125

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

Lab Sample ID: LCS 480-744844/2-A
Matrix: Water
Analysis Batch: 744994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 744844

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*25 - 144*
2-Fluorobiphenyl	*91*		*53 - 126*
2-Fluorophenol	*68*		*24 - 120*
Nitrobenzene-d5	*87*		*29 - 129*
p-Terphenyl-d14	*95*		*33 - 132*
Phenol-d5	*51*		*10 - 120*

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

Lab Sample ID: MB 240-654291/1-A
Matrix: Water
Analysis Batch: 654265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 654291

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		8.0	2.1	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluoropentanoic acid (PFPeA)	ND		4.0	1.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.52	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		8.0	2.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		8.0	2.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		8.0	2.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.62	ng/L		05/01/25 07:59	05/01/25 10:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.52	ng/L		05/01/25 07:59	05/01/25 10:39	1

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

Lab Sample ID: MB 240-654291/1-A
Matrix: Water
Analysis Batch: 654265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 654291

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		20	5.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		20	5.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		8.0	2.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.0	2.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		4.0	1.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		4.0	1.2	ng/L		05/01/25 07:59	05/01/25 10:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		8.0	2.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		8.0	2.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		4.0	1.0	ng/L		05/01/25 07:59	05/01/25 10:39	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		10	2.5	ng/L		05/01/25 07:59	05/01/25 10:39	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		50	13	ng/L		05/01/25 07:59	05/01/25 10:39	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		50	15	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		05/01/25 07:59	05/01/25 10:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		4.0	1.0	ng/L		05/01/25 07:59	05/01/25 10:39	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*97.9*		*10 - 130*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C5 PFPeA	*103*		*35 - 150*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C5 PFHxA	*103*		*55 - 150*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C4 PFHpA	*99.8*		*55 - 150*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C8 PFOA	*95.2*		*60 - 140*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C9 PFNA	*89.7*		*55 - 140*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C6 PFDA	*85.8*		*50 - 140*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C7 PFUnA	*84.0*		*30 - 140*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C2 PFTeDA	*67.7*		*10 - 130*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C3 PFBS	*101*		*55 - 150*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C3 PFHxS	*96.5*		*55 - 150*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C8 PFOS	*93.6*		*45 - 140*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C8 PFOSA	*88.6*		*30 - 130*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
d3-NMeFOSAA	*80.2*		*45 - 200*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
d5-NEtFOSAA	*78.4*		*10 - 200*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
M2-4:2 FTS	*108*		*60 - 200*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
M2-6:2 FTS	*97.9*		*60 - 200*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
M2-8:2 FTS	*87.9*		*50 - 200*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
13C3 HFPO-DA	*105*		*25 - 160*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
d7-N-MeFOSE-M	*62.6*		*10 - 150*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
d9-N-EtFOSE-M	*55.4*		*10 - 150*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
d5-NEtPFOSA	*69.9*		*10 - 130*	*05/01/25 07:59*	*05/01/25 10:39*	*1*
D3-NMeFOSA	*76.3*		*15 - 130*	*05/01/25 07:59*	*05/01/25 10:39*	*1*

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

Lab Sample ID: MB 240-654291/1-A
Matrix: Water
Analysis Batch: 654265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 654291

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoDA	78.6		10 - 150	05/01/25 07:59	05/01/25 10:39	1

Lab Sample ID: LCS 240-654291/3-A
Matrix: Water
Analysis Batch: 654265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	100	105		ng/L		105	58 - 148
Perfluoropentanoic acid (PFPeA)	50.0	54.9		ng/L		110	54 - 152
Perfluorohexanoic acid (PFHxA)	25.0	25.7		ng/L		103	55 - 152
Perfluoroheptanoic acid (PFHpA)	25.0	25.4		ng/L		102	54 - 154
Perfluorooctanoic acid (PFOA)	25.0	26.3		ng/L		105	52 - 161
Perfluorononanoic acid (PFNA)	25.0	26.6		ng/L		107	59 - 149
Perfluorodecanoic acid (PFDA)	25.0	24.8		ng/L		99	52 - 147
Perfluoroundecanoic acid (PFUnA)	25.0	27.5		ng/L		110	48 - 159
Perfluorododecanoic acid (PFDoA)	25.0	26.4		ng/L		106	64 - 142
Perfluorotridecanoic acid (PFTrDA)	25.0	24.1		ng/L		96	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	25.0	26.7		ng/L		107	47 - 161
Perfluorobutanesulfonic acid (PFBS)	22.2	23.7		ng/L		107	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	23.5	24.9		ng/L		106	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	22.8	23.0		ng/L		101	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	23.9	24.7		ng/L		104	55 - 152
Perfluorooctanesulfonic acid (PFOS)	23.3	23.4		ng/L		101	58 - 149
Perfluorononanesulfonic acid (PFNS)	24.1	24.9		ng/L		103	52 - 148
Perfluorododecanesulfonic acid (PFDoS)	24.3	20.7		ng/L		85	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	93.8	96.6		ng/L		103	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	95.2	104		ng/L		109	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	96.0	106		ng/L		110	63 - 152
Perfluorooctanesulfonamide (PFOSA)	25.0	27.2		ng/L		109	61 - 148
N-methylperfluorooctane sulfonamide (NMeFOSA)	25.0	29.1		ng/L		116	63 - 145
N-ethylperfluorooctane sulfonamide (NEtFOSA)	25.0	27.8		ng/L		111	65 - 139
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.0	25.9		ng/L		104	58 - 144
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.0	26.5		ng/L		106	59 - 146
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	250	270		ng/L		108	71 - 136

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

Lab Sample ID: LCS 240-654291/3-A
Matrix: Water
Analysis Batch: 654265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	250	261		ng/L		104	69 - 137
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	107		ng/L		107	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.6	96.1		ng/L		102	68 - 146
Perfluoro-4-methoxybutanoic acid (PFMBA)	50.0	55.7		ng/L		111	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50.0	54.5		ng/L		109	48 - 161
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	93.4	93.3		ng/L		100	56 - 156
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	94.4	87.5		ng/L		93	46 - 156
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44.6	47.5		ng/L		106	56 - 151
3-Perfluoropropylpropanoic acid (3:3 FTCA)	125	136		ng/L		108	62 - 129
3-Perfluoropentylpropanoic acid (5:3 FTCA)	625	648		ng/L		104	63 - 134
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	625	583		ng/L		93	50 - 138
Perfluorodecanesulfonic acid (PFDS)	24.1	24.0		ng/L		100	51 - 147
Perfluoro-3-methoxypropanoic acid (PFMPA)	50.0	54.6		ng/L		109	51 - 145

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*100*		*10 - 130*
13C5 PFPeA	*104*		*40 - 150*
13C5 PFHxA	*102*		*40 - 150*
13C4 PFHpA	*112*		*40 - 150*
13C8 PFOA	*95.9*		*30 - 140*
13C9 PFNA	*93.7*		*30 - 140*
13C6 PFDA	*92.9*		*20 - 140*
13C7 PFUnA	*86.6*		*20 - 140*
13C2 PFTeDA	*76.3*		*10 - 130*
13C3 PFBS	*96.5*		*25 - 150*
13C3 PFHxS	*95.1*		*25 - 150*
13C8 PFOS	*97.0*		*20 - 140*
13C8 PFOSA	*88.5*		*10 - 130*
d3-NMeFOSAA	*85.7*		*10 - 200*
d5-NEtFOSAA	*83.8*		*10 - 200*
M2-4:2 FTS	*99.5*		*25 - 200*
M2-6:2 FTS	*93.2*		*25 - 200*
M2-8:2 FTS	*89.6*		*25 - 200*
13C3 HFPO-DA	*106*		*25 - 160*
d7-N-MeFOSE-M	*66.6*		*10 - 150*
d9-N-EtFOSE-M	*59.7*		*10 - 150*
d5-NEtPFOSA	*72.1*		*10 - 130*

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

Lab Sample ID: LCS 240-654291/3-A
Matrix: Water
Analysis Batch: 654265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654291

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
D3-NMeFOSA	73.5		10 - 130
13C2-PFDoDA	82.8		10 - 150

Lab Sample ID: LLCS 240-654291/2-A
Matrix: Water
Analysis Batch: 654265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654291

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	8.30		ng/L		104	44 - 157
Perfluoropentanoic acid (PFPeA)	4.00	4.35		ng/L		109	57 - 148
Perfluorohexanoic acid (PFHxA)	2.00	2.07		ng/L		104	62 - 149
Perfluoroheptanoic acid (PFHpA)	2.00	2.22		ng/L		111	56 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.99	J	ng/L		99	57 - 161
Perfluorononanoic acid (PFNA)	2.00	1.92	J	ng/L		96	53 - 157
Perfluorodecanoic acid (PFDA)	2.00	2.05		ng/L		103	43 - 158
Perfluoroundecanoic acid (PFUnA)	2.00	2.21		ng/L		110	50 - 155
Perfluorododecanoic acid (PFDoA)	2.00	2.16		ng/L		108	60 - 141
Perfluorotridecanoic acid (PFTrDA)	2.00	2.00		ng/L		100	52 - 140
Perfluorotetradecanoic acid (PFTeDA)	2.00	2.34		ng/L		117	52 - 156
Perfluorobutanesulfonic acid (PFBS)	1.78	1.81	J	ng/L		102	63 - 145
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.94	J	ng/L		103	58 - 144
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.89	J	ng/L		104	44 - 158
Perfluoroheptanesulfonic acid (PFHpS)	1.91	2.07		ng/L		109	51 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	2.11		ng/L		114	43 - 162
Perfluorononanesulfonic acid (PFNS)	1.92	2.07		ng/L		107	46 - 151
Perfluorododecanesulfonic acid (PFDoS)	1.94	1.88	J	ng/L		97	30 - 138
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	8.36		ng/L		111	52 - 158
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	7.76	J	ng/L		102	48 - 158
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	8.02		ng/L		104	46 - 165
Perfluorooctanesulfonamide (PFOSA)	2.00	2.16		ng/L		108	47 - 163
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.00	2.29		ng/L		114	54 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.00	2.15		ng/L		107	49 - 156
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.35		ng/L		118	32 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.39		ng/L		119	51 - 154

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

Lab Sample ID: LLCS 240-654291/2-A
Matrix: Water
Analysis Batch: 654265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654291

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	24.0		ng/L		120	56 - 151
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	22.3		ng/L		111	60 - 147
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.00	8.55		ng/L		107	58 - 154
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	7.16	J	ng/L		95	61 - 148
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.41		ng/L		110	49 - 154
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.41		ng/L		110	47 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	7.47	7.56	J	ng/L		101	44 - 167
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	7.55	7.06	J	ng/L		94	36 - 158
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	3.69	J	ng/L		103	56 - 144
3-Perfluoropropylpropanoic acid (3:3 FTCA)	10.0	9.77	J	ng/L		98	32 - 161
3-Perfluoropentylpropanoic acid (5:3 FTCA)	50.0	49.5	J	ng/L		99	39 - 156
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50.0	43.5	J	ng/L		87	36 - 149
Perfluorodecanesulfonic acid (PFDS)	1.93	1.95	J	ng/L		101	50 - 144
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.41		ng/L		110	48 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*97.9*		*10 - 130*
13C5 PFPeA	*104*		*40 - 150*
13C5 PFHxA	*104*		*40 - 150*
13C4 PFHpA	*102*		*40 - 150*
13C8 PFOA	*97.8*		*30 - 140*
13C9 PFNA	*99.6*		*30 - 140*
13C6 PFDA	*97.5*		*20 - 140*
13C7 PFUnA	*94.0*		*20 - 140*
13C2 PFTeDA	*91.4*		*10 - 130*
13C3 PFBS	*99.1*		*25 - 150*
13C3 PFHxS	*97.8*		*25 - 150*
13C8 PFOS	*96.6*		*20 - 140*
13C8 PFOSA	*88.7*		*10 - 130*
d3-NMeFOSAA	*86.1*		*10 - 200*
d5-NEtFOSAA	*80.7*		*10 - 200*
M2-4:2 FTS	*99.1*		*25 - 200*
M2-6:2 FTS	*105*		*25 - 200*
M2-8:2 FTS	*91.4*		*25 - 200*
13C3 HFPO-DA	*110*		*25 - 160*
d7-N-MeFOSE-M	*80.9*		*10 - 150*

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

Lab Sample ID: LLCS 240-654291/2-A
Matrix: Water
Analysis Batch: 654265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654291

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
d9-N-EtFOSE-M	78.7		10 - 150
d5-NEtPFOSA	72.2		10 - 130
D3-NMeFOSA	71.5		10 - 130
13C2-PFDoDA	93.2		10 - 150

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

GC/MS VOA

Analysis Batch: 744886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229035-1	OFFsite well-1	Total/NA	Water	8260C	
MB 480-744886/8	Method Blank	Total/NA	Water	8260C	
LCS 480-744886/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 744844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229035-1	OFFsite well-1	Total/NA	Water	3510C	
MB 480-744844/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-744844/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 744994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229035-1	OFFsite well-1	Total/NA	Water	8270D	744844
MB 480-744844/1-A	Method Blank	Total/NA	Water	8270D	744844
LCS 480-744844/2-A	Lab Control Sample	Total/NA	Water	8270D	744844

LCMS

Analysis Batch: 654265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229035-1	OFFsite well-1	Total/NA	Water	1633	654291
MB 240-654291/1-A	Method Blank	Total/NA	Water	1633	654291
LCS 240-654291/3-A	Lab Control Sample	Total/NA	Water	1633	654291
LLCS 240-654291/2-A	Lab Control Sample	Total/NA	Water	1633	654291

Prep Batch: 654291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229035-1	OFFsite well-1	Total/NA	Water	1633	
MB 240-654291/1-A	Method Blank	Total/NA	Water	1633	
LCS 240-654291/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 240-654291/2-A	Lab Control Sample	Total/NA	Water	1633	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

Client Sample ID: OFFsite well-1
Lab Sample ID: 480-229035-1

Date Collected: 04/28/25 11:00
Matrix: Water
Date Received: 04/28/25 12:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	744886	AXK	EET BUF	05/01/25 03:23
Total/NA	Prep	3510C			744844	JMP	EET BUF	04/30/25 09:20
Total/NA	Analysis	8270D		1	744994	AF	EET BUF	05/01/25 17:10
Total/NA	Prep	1633			654291	CLB	EET CLE	05/01/25 07:59
Total/NA	Analysis	1633		1	654265	LD	EET CLE	05/01/25 10:23

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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-26

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	04-01-26
North Dakota	State	R-244	02-27-26
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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
1633	Solid-Phase Extraction (SPE)	EPA	EET CLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229035-1
Project/Site: The Nest Site Analyses - 333 1St. Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-229035-1	OFFsite well-1	Water	04/28/25 11:00	04/28/25 12:03

Eurofins Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

eurofins | Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Eurofins Environment Testing Am

Client Contact	Project Manager: John Beninati	Site Contact:	Date:	COC No: 480-204074-41661
BE3	Email:	Lab Contact:	Carrier:	____ of ____ COCs
Address 960 Busti Ave	Tel/Fax:			TALS Project #:
City/State/Zip Buffalo, NY, 14213	Analysis Turnaround Time			Sampler:
716-249-6880	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx FAX	TAT if different from Below ____			Walk-in Client:
Project Name: The NEST	☐ 2 weeks			Lab Sampling:
Site:333 1st Street	☒ 1 week			
P O #	☐ 2 days			Job / SDG No.:
	☐ 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 VOCs	TCL SVOCs	PFAS	Sample Specific Notes:
OFFsite well - 2	4/28/25		G	W				X	X	X	

480-229035 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: If we can do faster than 5-day TAT Please do so. Thank you
11.4 IR#SC ICE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ Therm ID No.: ____		
Relinquished by: Jim Hull	Company: BE3	Date/Time: 4-28 1203	Received by:	Company: TAB	Date/Time: 4-28-25 1203
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

eurofins | Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Eurofins Environment Testing America

Client Contact	**Project Manager: John Beninati**		COC No: 480-204074-41661
BE3	**Email:**	**Site Contact:**	**Date:**	____ of ____ COCs
Address 960 Busti Ave	**Tel/Fax:**	**Lab Contact:**	**Carrier:**	TALS Project #:
City/State/Zip Buffalo, NY, 14213	**Analysis Turnaround Time**			Sampler:
716-249-6880	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(xxx) xxx-xxxx FAX	TAT if different from Below ____			Walk-in Client:
Project Name: The NEST	☐ 2 weeks			Lab Sampling:
Site:333 1st Street	☒ 1 week			Job / SDG No.:
P O #	☐ 2 days			
	☐ 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 VOCs	TCL SVOCs	PFAS	Sample Specific Notes:
OFFsite well - 1	4/28/25		G	W				X	X	X	

480-229035 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 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: If we can do faster than 5-day TAT please do so. Thank you

11.4 IR#SC ice

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ Therm ID No.: ____			
Relinquished by: Jim Hall	Company: BE3	Date/Time: 4-28 1203	Received by:	Company: TAB	Date/Time: 4-28-25 1203
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-92299.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-229035-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 5/5/2025			
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: The Nest Site Analysis	Project #: 48028073			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

PfasR081-07

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wewater, Sesolid, Owaste/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:						
OFFsite well-1 (480-229035-1)	4/28/25	11:30 Eastern	G	Water			X	2	

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
1	[signature]	4-29-25 1600		Jcollins	4-30-25 910	Eur
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

Ver: 10/19/2024

Eurofins - Cleveland Sample Receipt Form/Narrative Login #:
Barberton Facility

Client Eurofins Buffalo Site Name

Cooler Received on 4-30-25 Opened on 4-30-25

Cooler unpacked by: JC

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 0.5 °C) Observed Cooler Temp. 4.6 °C Corrected Cooler Temp. 5.1 °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# HC457151
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.

5/2/2025

SAMPLE CONTROL
EUROFINS ENVIRONMENT TESTING
[illegible] HOOPER AVE
[illegible] 223
[illegible] (A)

ACTWGT 22.65 LB
CAD 0759273/CAFE3805
DIMS 15x12x11 IN
BILL SENDER

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF. BARBERTON

FedEx Express

TRK# 0201 7463 0663 7799

WED - 30 APR 10:30
PRIORITY OVERNIGHT

FedEx
TRK# 0201 7463 0663 7799

WED - 30 APR AA
PRIORITY OVERNIGHT

44203
OH-US
CLE

XP CAKA

3999446.29Apr2025 BUFA 581G2/4ACC/5FE5

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-229035-1

Login Number: 229035
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	11.4 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.	False	
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	BE3
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: Paul Staub
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 6/6/2025 5:48:50 AM

JOB DESCRIPTION

The Nest Site Analysis - 333 1St. Street

JOB NUMBER

480-229827-1

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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Qualifiers

GC/MS 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.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-229827-1 Eurofins Buffalo

Job Narrative
480-229827-1

Receipt
The sample was received on 5/30/2025 4:53 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 9.3º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 747745 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:OW-1 Resample (480-229827-1).

Method 8260C: The method blank for preparation batch 747745 contained Methylene chloride above the reporting limit (RL). None of the samples associated with this method blank contained the target compound at an amount above the RL; therefore, re-extraction and/or re-analysis of samples were not performed.

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

GC/MS Semi VOA
Method 8270D: The following samples were inadvertently spiked with internal standard at a concentration of 40 ng/uL instead of 4 ng/uL. Spike and surrogate recoveries are within expected limits, therefore the data has been reported.

OW-1 Resample (480-229827-1), (LCS 480-747738/2-A) and (MB 480-747738/1-A)

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-747738 and analytical batch 480-747859 recovered outside control limits for the following analytes: Benzo(a)anthracene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-747859 recovered above the upper control limit for Carbazole. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:OW-1 Resample (480-229827-1).

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

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

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229827-1
Project/Site: The Nest Site Analysis - 333 1St. Street

Client Sample ID: OW-1 Resample
Lab Sample ID: 480-229827-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	4.8		1.0	0.75	ug/L	1		8260C	Total/NA
Acetone	6.1	J B	10	3.0	ug/L	1		8260C	Total/NA
Chloroform	1.1		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.2		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	0.63	J	1.0	0.18	ug/L	1		8260C	Total/NA
Isopropylbenzene	0.80	J	1.0	0.79	ug/L	1		8260C	Total/NA
N-Propylbenzene	0.95	J	1.0	0.69	ug/L	1		8260C	Total/NA
Tetrachloroethene	4.6		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	2.2		1.0	0.46	ug/L	1		8260C	Total/NA
Di-n-butyl phthalate	0.40	J *3	5.0	0.31	ug/L	1		8270D	Total/NA
Perfluorobutanoic acid (PFBA)	5.6		3.3	0.82	ng/L	1		1633A	Total/NA
Perfluoropentanoic acid (PFPeA)	4.9		1.6	0.49	ng/L	1		1633A	Total/NA
Perfluorohexanoic acid (PFHxA)	4.7		1.6	0.41	ng/L	1		1633A	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.5		1.6	0.42	ng/L	1		1633A	Total/NA
Perfluorooctanoic acid (PFOA)	16		1.6	0.44	ng/L	1		1633A	Total/NA
Perfluorononanoic acid (PFNA)	1.1	J	1.6	0.41	ng/L	1		1633A	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7		1.6	0.41	ng/L	1		1633A	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.8		1.6	0.41	ng/L	1		1633A	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.46	J	1.6	0.41	ng/L	1		1633A	Total/NA
Perfluorooctanesulfonic acid (PFOS)	49		1.6	0.41	ng/L	1		1633A	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.64	J	1.6	0.41	ng/L	1		1633A	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.87	J	1.6	0.55	ng/L	1		1633A	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.0		1.6	0.41	ng/L	1		1633A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229827-1
Project/Site: The Nest Site Analysis - 333 1St. Street

Client Sample ID: OW-1 Resample

Lab Sample ID: 480-229827-1

Date Collected: 05/30/25 16:00

Matrix: Water

Date Received: 05/30/25 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			06/03/25 14:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			06/03/25 14:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			06/03/25 14:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			06/03/25 14:07	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/03/25 14:07	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/03/25 14:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			06/03/25 14:07	1
1,2,4-Trimethylbenzene	**4.8**		1.0	0.75	ug/L			06/03/25 14:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			06/03/25 14:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			06/03/25 14:07	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/03/25 14:07	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			06/03/25 14:07	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			06/03/25 14:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			06/03/25 14:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			06/03/25 14:07	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			06/03/25 14:07	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			06/03/25 14:07	1
4-Isopropyltoluene	1.0	U	1.0	0.31	ug/L			06/03/25 14:07	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			06/03/25 14:07	1
Acetone	**6.1**	**J B**	10	3.0	ug/L			06/03/25 14:07	1
Benzene	1.0	U	1.0	0.41	ug/L			06/03/25 14:07	1
Bromoform	1.0	U	1.0	0.26	ug/L			06/03/25 14:07	1
Bromomethane	1.0	U	1.0	0.69	ug/L			06/03/25 14:07	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			06/03/25 14:07	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			06/03/25 14:07	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			06/03/25 14:07	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			06/03/25 14:07	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/03/25 14:07	1
Chloroform	**1.1**		1.0	0.34	ug/L			06/03/25 14:07	1
Chloromethane	1.0	U	1.0	0.35	ug/L			06/03/25 14:07	1
cis-1,2-Dichloroethene	**1.2**		1.0	0.81	ug/L			06/03/25 14:07	1
Cyclohexane	**0.63**	**J**	1.0	0.18	ug/L			06/03/25 14:07	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			06/03/25 14:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			06/03/25 14:07	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			06/03/25 14:07	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			06/03/25 14:07	1
Isopropylbenzene	**0.80**	**J**	1.0	0.79	ug/L			06/03/25 14:07	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			06/03/25 14:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			06/03/25 14:07	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			06/03/25 14:07	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			06/03/25 14:07	1
m,p-Xylene	2.0	U	2.0	0.66	ug/L			06/03/25 14:07	1
Naphthalene	1.0	U	1.0	0.43	ug/L			06/03/25 14:07	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			06/03/25 14:07	1
N-Propylbenzene	**0.95**	**J**	1.0	0.69	ug/L			06/03/25 14:07	1
o-Xylene	1.0	U	1.0	0.76	ug/L			06/03/25 14:07	1
sec-Butylbenzene	1.0	U	1.0	0.75	ug/L			06/03/25 14:07	1
Tetrachloroethene	**4.6**		1.0	0.36	ug/L			06/03/25 14:07	1
Toluene	1.0	U	1.0	0.51	ug/L			06/03/25 14:07	1

Client Sample ID: OW-1 Resample
Lab Sample ID: 480-229827-1
Date Collected: 05/30/25 16:00
Matrix: Water
Date Received: 05/30/25 16:53

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	1.0	U	1.0	0.90	ug/L			06/03/25 14:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			06/03/25 14:07	1
Trichloroethene	**2.2**		1.0	0.46	ug/L			06/03/25 14:07	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			06/03/25 14:07	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			06/03/25 14:07	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			06/03/25 14:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			06/03/25 14:07	1
Styrene	1.0	U	1.0	0.73	ug/L			06/03/25 14:07	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			06/03/25 14:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzene, 1-ethyl-3-methyl-	*5.2*	*T J N*	*ug/L*		*10.13*	*620-14-4*		*06/03/25 14:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/03/25 14:07*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/03/25 14:07*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/03/25 14:07*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/03/25 14:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	5.0	U *3	5.0	0.65	ug/L		06/03/25 08:58	06/04/25 18:23	1
bis (2-chloroisopropyl) ether	5.0	U *3	5.0	0.52	ug/L		06/03/25 08:58	06/04/25 18:23	1
2,4,5-Trichlorophenol	5.0	U *3	5.0	0.48	ug/L		06/03/25 08:58	06/04/25 18:23	1
2,4,6-Trichlorophenol	5.0	U *3	5.0	0.61	ug/L		06/03/25 08:58	06/04/25 18:23	1
2,4-Dichlorophenol	5.0	U *3	5.0	0.51	ug/L		06/03/25 08:58	06/04/25 18:23	1
2,4-Dimethylphenol	5.0	U *3	5.0	0.50	ug/L		06/03/25 08:58	06/04/25 18:23	1
2,4-Dinitrophenol	10	U *3	10	2.2	ug/L		06/03/25 08:58	06/04/25 18:23	1
2,4-Dinitrotoluene	5.0	U *3	5.0	0.45	ug/L		06/03/25 08:58	06/04/25 18:23	1
2,6-Dinitrotoluene	5.0	U *3	5.0	0.40	ug/L		06/03/25 08:58	06/04/25 18:23	1
2-Chloronaphthalene	5.0	U *3	5.0	0.46	ug/L		06/03/25 08:58	06/04/25 18:23	1
2-Chlorophenol	5.0	U *3	5.0	0.53	ug/L		06/03/25 08:58	06/04/25 18:23	1
2-Methylnaphthalene	5.0	U *3	5.0	0.60	ug/L		06/03/25 08:58	06/04/25 18:23	1
2-Methylphenol	5.0	U *3	5.0	0.40	ug/L		06/03/25 08:58	06/04/25 18:23	1
2-Nitroaniline	10	U *3	10	0.42	ug/L		06/03/25 08:58	06/04/25 18:23	1
2-Nitrophenol	5.0	U *3	5.0	0.48	ug/L		06/03/25 08:58	06/04/25 18:23	1
3,3'-Dichlorobenzidine	5.0	U *3	5.0	0.40	ug/L		06/03/25 08:58	06/04/25 18:23	1
3-Nitroaniline	10	U *3	10	0.48	ug/L		06/03/25 08:58	06/04/25 18:23	1
4,6-Dinitro-2-methylphenol	10	U *3	10	2.2	ug/L		06/03/25 08:58	06/04/25 18:23	1
4-Bromophenyl phenyl ether	5.0	U *3	5.0	0.45	ug/L		06/03/25 08:58	06/04/25 18:23	1
4-Chloro-3-methylphenol	5.0	U *3	5.0	0.45	ug/L		06/03/25 08:58	06/04/25 18:23	1
4-Chloroaniline	5.0	U *3	5.0	0.59	ug/L		06/03/25 08:58	06/04/25 18:23	1
4-Chlorophenyl phenyl ether	5.0	U *3	5.0	0.35	ug/L		06/03/25 08:58	06/04/25 18:23	1
4-Methylphenol	10	U *3	10	0.36	ug/L		06/03/25 08:58	06/04/25 18:23	1
4-Nitroaniline	10	U *3	10	0.25	ug/L		06/03/25 08:58	06/04/25 18:23	1
4-Nitrophenol	10	U *3	10	1.5	ug/L		06/03/25 08:58	06/04/25 18:23	1
Acenaphthene	5.0	U *3	5.0	0.41	ug/L		06/03/25 08:58	06/04/25 18:23	1
Acenaphthylene	5.0	U *3	5.0	0.38	ug/L		06/03/25 08:58	06/04/25 18:23	1
Acetophenone	5.0	U *3	5.0	0.54	ug/L		06/03/25 08:58	06/04/25 18:23	1
Anthracene	5.0	U *3	5.0	0.28	ug/L		06/03/25 08:58	06/04/25 18:23	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229827-1
Project/Site: The Nest Site Analysis - 333 1St. Street

Client Sample ID: OW-1 Resample
Lab Sample ID: 480-229827-1
Date Collected: 05/30/25 16:00
Matrix: Water
Date Received: 05/30/25 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	5.0	U *3	5.0	0.46	ug/L		06/03/25 08:58	06/04/25 18:23	1
Benzaldehyde	5.0	U *3	5.0	0.27	ug/L		06/03/25 08:58	06/04/25 18:23	1
Benzo(a)anthracene	5.0	U *3 *+	5.0	0.36	ug/L		06/03/25 08:58	06/04/25 18:23	1
Benzo(a)pyrene	5.0	U *3	5.0	0.47	ug/L		06/03/25 08:58	06/04/25 18:23	1
Benzo(b)fluoranthene	5.0	U *3	5.0	0.34	ug/L		06/03/25 08:58	06/04/25 18:23	1
Benzo(g,h,i)perylene	5.0	U *3	5.0	0.35	ug/L		06/03/25 08:58	06/04/25 18:23	1
Benzo(k)fluoranthene	5.0	U *3	5.0	0.73	ug/L		06/03/25 08:58	06/04/25 18:23	1
Bis(2-chloroethoxy)methane	5.0	U *3	5.0	0.35	ug/L		06/03/25 08:58	06/04/25 18:23	1
Bis(2-chloroethyl)ether	5.0	U *3	5.0	0.40	ug/L		06/03/25 08:58	06/04/25 18:23	1
Bis(2-ethylhexyl) phthalate	5.0	U *3	5.0	2.2	ug/L		06/03/25 08:58	06/04/25 18:23	1
Butyl benzyl phthalate	5.0	U *3	5.0	1.0	ug/L		06/03/25 08:58	06/04/25 18:23	1
Caprolactam	5.0	U *3	5.0	2.2	ug/L		06/03/25 08:58	06/04/25 18:23	1
Carbazole	5.0	U *3	5.0	0.30	ug/L		06/03/25 08:58	06/04/25 18:23	1
Chrysene	5.0	U *3	5.0	0.33	ug/L		06/03/25 08:58	06/04/25 18:23	1
Di-n-butyl phthalate	**0.40**	**J *3**	5.0	0.31	ug/L		06/03/25 08:58	06/04/25 18:23	1
Di-n-octyl phthalate	5.0	U *3	5.0	0.47	ug/L		06/03/25 08:58	06/04/25 18:23	1
Dibenz(a,h)anthracene	5.0	U *3	5.0	0.42	ug/L		06/03/25 08:58	06/04/25 18:23	1
Dibenzofuran	10	U *3	10	0.51	ug/L		06/03/25 08:58	06/04/25 18:23	1
Diethyl phthalate	5.0	U *3	5.0	0.22	ug/L		06/03/25 08:58	06/04/25 18:23	1
Dimethyl phthalate	5.0	U *3	5.0	0.36	ug/L		06/03/25 08:58	06/04/25 18:23	1
Fluoranthene	5.0	U *3	5.0	0.40	ug/L		06/03/25 08:58	06/04/25 18:23	1
Fluorene	5.0	U *3	5.0	0.36	ug/L		06/03/25 08:58	06/04/25 18:23	1
Hexachlorobenzene	5.0	U *3	5.0	0.51	ug/L		06/03/25 08:58	06/04/25 18:23	1
Hexachlorobutadiene	5.0	U *3	5.0	0.68	ug/L		06/03/25 08:58	06/04/25 18:23	1
Hexachlorocyclopentadiene	5.0	U *3	5.0	0.59	ug/L		06/03/25 08:58	06/04/25 18:23	1
Hexachloroethane	5.0	U *3	5.0	0.59	ug/L		06/03/25 08:58	06/04/25 18:23	1
Indeno(1,2,3-cd)pyrene	5.0	U *3	5.0	0.47	ug/L		06/03/25 08:58	06/04/25 18:23	1
Isophorone	5.0	U *3	5.0	0.43	ug/L		06/03/25 08:58	06/04/25 18:23	1
N-Nitrosodi-n-propylamine	5.0	U *3	5.0	0.54	ug/L		06/03/25 08:58	06/04/25 18:23	1
N-Nitrosodiphenylamine	5.0	U *3	5.0	0.51	ug/L		06/03/25 08:58	06/04/25 18:23	1
Naphthalene	5.0	U *3	5.0	0.76	ug/L		06/03/25 08:58	06/04/25 18:23	1
Nitrobenzene	5.0	U *3	5.0	0.29	ug/L		06/03/25 08:58	06/04/25 18:23	1
Pentachlorophenol	10	U *3	10	2.2	ug/L		06/03/25 08:58	06/04/25 18:23	1
Phenanthrene	5.0	U *3	5.0	0.44	ug/L		06/03/25 08:58	06/04/25 18:23	1
Phenol	5.0	U *3	5.0	0.39	ug/L		06/03/25 08:58	06/04/25 18:23	1
Pyrene	5.0	U *3	5.0	0.34	ug/L		06/03/25 08:58	06/04/25 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*	**3*	*25 - 144*	*06/03/25 08:58*	*06/04/25 18:23*	*1*
2-Fluorobiphenyl	*96*	**3*	*53 - 126*	*06/03/25 08:58*	*06/04/25 18:23*	*1*
2-Fluorophenol	*61*	**3*	*24 - 120*	*06/03/25 08:58*	*06/04/25 18:23*	*1*
Nitrobenzene-d5	*89*	**3*	*29 - 129*	*06/03/25 08:58*	*06/04/25 18:23*	*1*
p-Terphenyl-d14	*68*	**3*	*33 - 132*	*06/03/25 08:58*	*06/04/25 18:23*	*1*
Phenol-d5	*39*	**3*	*10 - 120*	*06/03/25 08:58*	*06/04/25 18:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.6**		3.3	0.82	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluoropentanoic acid (PFPeA)	**4.9**		1.6	0.49	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorohexanoic acid (PFHxA)	**4.7**		1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1

Client Sample ID: OW-1 Resample

Lab Sample ID: 480-229827-1

Date Collected: 05/30/25 16:00

Matrix: Water

Date Received: 05/30/25 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	**2.5**		1.6	0.42	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorooctanoic acid (PFOA)	**16**		1.6	0.44	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorononanoic acid (PFNA)	**1.1**	**J**	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorodecanoic acid (PFDA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluoroundecanoic acid (PFUnA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorododecanoic acid (PFDoA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorotridecanoic acid (PFTrDA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorotetradecanoic acid (PFTeDA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorobutanesulfonic acid (PFBS)	**2.7**		1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluoropentanesulfonic acid (PFPeS)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorohexanesulfonic acid (PFHxS)	**2.8**		1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.46**	**J**	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorooctanesulfonic acid (PFOS)	**49**		1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorononanesulfonic acid (PFNS)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorododecanesulfonic acid (PFDoS)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	3.3	U	3.3	0.94	ng/L		06/04/25 08:40	06/04/25 18:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	3.3	U	3.3	0.84	ng/L		06/04/25 08:40	06/04/25 18:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	3.3	U	3.3	0.82	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorooctanesulfonamide (PFOSA)	**0.64**	**J**	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**0.87**	**J**	1.6	0.55	ng/L		06/04/25 08:40	06/04/25 18:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**3.0**		1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	8.2	U	8.2	2.4	ng/L		06/04/25 08:40	06/04/25 18:22	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	8.2	U	8.2	2.0	ng/L		06/04/25 08:40	06/04/25 18:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.2	U	1.2	0.38	ng/L		06/04/25 08:40	06/04/25 18:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229827-1
Project/Site: The Nest Site Analysis - 333 1St. Street

Client Sample ID: OW-1 Resample
Lab Sample ID: 480-229827-1
Date Collected: 05/30/25 16:00
Matrix: Water
Date Received: 05/30/25 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	3.3	U	3.3	0.82	ng/L		06/04/25 08:40	06/04/25 18:22	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	8.2	U	8.2	2.0	ng/L		06/04/25 08:40	06/04/25 18:22	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	8.2	U	8.2	2.0	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluorodecanesulfonic acid (PFDS)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.6	U	1.6	0.41	ng/L		06/04/25 08:40	06/04/25 18:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*102*		*5 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C5 PFPeA	*106*		*40 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C5 PFHxA	*101*		*40 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C4 PFHpA	*105*		*40 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C8 PFOA	*98.1*		*40 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C9 PFNA	*96.5*		*40 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C6 PFDA	*99.3*		*40 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C7 PFUnA	*87.1*		*30 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C2 PFTeDA	*81.4*		*10 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C3 PFBS	*103*		*40 - 135*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C3 PFHxS	*100*		*40 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C8 PFOS	*76.7*		*40 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C8 FOSA	*61.0*		*40 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
d3-NMeFOSAA	*63.9*		*40 - 170*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
d5-NEtFOSAA	*63.7*		*25 - 135*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C2 4:2 FTS	*145*		*40 - 200*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C2 6:2 FTS	*122*		*40 - 200*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C2 8:2 FTS	*143*		*40 - 300*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C3 HFPO-DA	*105*		*40 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
d7-N-MeFOSE-M	*54.9*		*10 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
d9-N-EtFOSE-M	*53.7*		*10 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
d5-NEtPFOSA	*53.5*		*10 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
d3-NMePFOSA	*57.6*		*10 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*
13C2-PFDoA	*87.1*		*10 - 130*	*06/04/25 08:40*	*06/04/25 18:22*	*1*

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229827-1
Project/Site: The Nest Site Analysis - 333 1St. Street

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)				
480-229827-1	OW-1 Resample	101	99	99	101				
LCS 480-747745/7	Lab Control Sample	99	102	99	100				
MB 480-747745/9	Method Blank	98	100	100	96				

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)		
480-229827-1	OW-1 Resample	92 *3	96 *3	61 *3	89 *3	68 *3	39 *3		
LCS 480-747738/2-A	Lab Control Sample	103 *3	98 *3	67 *3	103 *3	99 *3	48 *3		
MB 480-747738/1-A	Method Blank	72 *3	72 *3	47 *3	68 *3	86 *3	29 *3		

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229827-1
Project/Site: The Nest Site Analysis - 333 1St. Street

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

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(5-130)	(40-130)	(40-130)	(40-130)	(40-130)	(40-130)	(40-130)	(30-130)
480-229827-1	OW-1 Resample	102	106	101	105	98.1	96.5	99.3	87.1
LCS 240-658494/3-A	Lab Control Sample	90.2	93.2	88.1	94.4	87.3	88.8	87.3	84.5
LLCS 240-658494/2-A	Lab Control Sample	92.0	93.7	91.7	92.0	89.6	89.3	88.1	86.8
MB 240-658494/1-A	Method Blank	89.8	91.9	86.2	93.2	84.7	83.4	80.1	79.8

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFTDA	C3PFBS	C3PFHS	C8PFOS	PFOSA	d3NMFOS	d5NEFOS	M242FTS
Lab Sample ID	Client Sample ID	(10-130)	(40-135)	(40-130)	(40-130)	(40-130)	(40-170)	(25-135)	(40-200)
480-229827-1	OW-1 Resample	81.4	103	100	76.7	61.0	63.9	63.7	145
LCS 240-658494/3-A	Lab Control Sample	77.1	89.5	88.5	90.8	77.8	87.8	112	89.6
LLCS 240-658494/2-A	Lab Control Sample	80.0	92.9	89.0	91.0	78.8	88.2	94.9	98.7
MB 240-658494/1-A	Method Blank	73.4	85.8	84.5	83.8	75.1	88.0	101	90.6

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS	M282FTS	HFPODA	NMFM	NEFM	d5NPFSA	d3NMFSA	PFDoDA
Lab Sample ID	Client Sample ID	(40-200)	(40-300)	(40-130)	(10-130)	(10-130)	(10-130)	(10-130)	(10-130)
480-229827-1	OW-1 Resample	122	143	105	54.9	53.7	53.5	57.6	87.1
LCS 240-658494/3-A	Lab Control Sample	94.3	92.2	90.8	53.3	47.1	62.1	64.0	83.4
LLCS 240-658494/2-A	Lab Control Sample	97.1	92.4	92.5	49.4	45.4	64.1	65.4	87.2
MB 240-658494/1-A	Method Blank	90.5	86.1	88.7	62.0	57.4	59.9	65.2	79.6

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 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
PFDoDA = 13C2-PFDoA

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

Lab Sample ID: MB 480-747745/9
Matrix: Water
Analysis Batch: 747745

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	1.0	U	1.0	0.82	ug/L			06/03/25 13:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			06/03/25 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			06/03/25 13:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			06/03/25 13:17	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/03/25 13:17	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/03/25 13:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			06/03/25 13:17	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			06/03/25 13:17	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			06/03/25 13:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			06/03/25 13:17	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/03/25 13:17	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			06/03/25 13:17	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			06/03/25 13:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			06/03/25 13:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			06/03/25 13:17	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			06/03/25 13:17	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			06/03/25 13:17	1
4-Isopropyltoluene	1.0	U	1.0	0.31	ug/L			06/03/25 13:17	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			06/03/25 13:17	1
Acetone	3.18	J	10	3.0	ug/L			06/03/25 13:17	1
Benzene	1.0	U	1.0	0.41	ug/L			06/03/25 13:17	1
Bromoform	1.0	U	1.0	0.26	ug/L			06/03/25 13:17	1
Bromomethane	1.0	U	1.0	0.69	ug/L			06/03/25 13:17	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			06/03/25 13:17	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			06/03/25 13:17	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			06/03/25 13:17	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			06/03/25 13:17	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/03/25 13:17	1
Chloroform	1.0	U	1.0	0.34	ug/L			06/03/25 13:17	1
Chloromethane	1.0	U	1.0	0.35	ug/L			06/03/25 13:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			06/03/25 13:17	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			06/03/25 13:17	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			06/03/25 13:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			06/03/25 13:17	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			06/03/25 13:17	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			06/03/25 13:17	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			06/03/25 13:17	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			06/03/25 13:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			06/03/25 13:17	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			06/03/25 13:17	1
Methylene Chloride	1.04		1.0	0.44	ug/L			06/03/25 13:17	1
m,p-Xylene	2.0	U	2.0	0.66	ug/L			06/03/25 13:17	1
Naphthalene	1.0	U	1.0	0.43	ug/L			06/03/25 13:17	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			06/03/25 13:17	1
N-Propylbenzene	1.0	U	1.0	0.69	ug/L			06/03/25 13:17	1
o-Xylene	1.0	U	1.0	0.76	ug/L			06/03/25 13:17	1
sec-Butylbenzene	1.0	U	1.0	0.75	ug/L			06/03/25 13:17	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			06/03/25 13:17	1

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

Lab Sample ID: MB 480-747745/9
Matrix: Water
Analysis Batch: 747745

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.51	ug/L			06/03/25 13:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			06/03/25 13:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			06/03/25 13:17	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			06/03/25 13:17	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			06/03/25 13:17	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			06/03/25 13:17	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			06/03/25 13:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			06/03/25 13:17	1
Styrene	1.0	U	1.0	0.73	ug/L			06/03/25 13:17	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			06/03/25 13:17	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*		*06/03/25 13:17*	*1*

Surrogate	*%Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*06/03/25 13:17*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/03/25 13:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/03/25 13:17*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*06/03/25 13:17*	*1*

Lab Sample ID: LCS 480-747745/7
Matrix: Water
Analysis Batch: 747745

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	28.3		ug/L		113	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	32.3		ug/L		129	61 - 148
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	76 - 122
1,1-Dichloroethane	25.0	28.5		ug/L		114	77 - 120
1,1-Dichloroethene	25.0	28.6		ug/L		114	66 - 127
1,2,4-Trichlorobenzene	25.0	26.7		ug/L		107	79 - 122
1,2,4-Trimethylbenzene	25.0	26.1		ug/L		105	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	23.4		ug/L		94	56 - 134
1,2-Dichlorobenzene	25.0	27.1		ug/L		108	80 - 124
1,2-Dichloroethane	25.0	26.7		ug/L		107	75 - 120
1,2-Dichloropropane	25.0	25.9		ug/L		104	76 - 120
1,3,5-Trimethylbenzene	25.0	26.2		ug/L		105	77 - 121
1,3-Dichlorobenzene	25.0	26.7		ug/L		107	77 - 120
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 120
2-Butanone (MEK)	125	111		ug/L		89	57 - 140
2-Hexanone	125	121		ug/L		97	65 - 127
4-Isopropyltoluene	25.0	27.4		ug/L		110	73 - 120
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	71 - 125
Acetone	125	139		ug/L		111	56 - 142
Benzene	25.0	28.3		ug/L		113	71 - 124
Bromoform	25.0	24.1		ug/L		96	61 - 132

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

Lab Sample ID: LCS 480-747745/7
Matrix: Water
Analysis Batch: 747745

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	27.5		ug/L		110	55 - 144
Carbon disulfide	25.0	29.7		ug/L		119	59 - 134
Carbon tetrachloride	25.0	29.1		ug/L		116	72 - 134
Chlorobenzene	25.0	26.6		ug/L		106	80 - 120
Dibromochloromethane	25.0	24.3		ug/L		97	75 - 125
Chloroethane	25.0	26.3		ug/L		105	69 - 136
Chloroform	25.0	27.6		ug/L		110	73 - 127
Chloromethane	25.0	26.0		ug/L		104	68 - 124
cis-1,2-Dichloroethene	25.0	29.2		ug/L		117	74 - 124
Cyclohexane	25.0	27.2		ug/L		109	59 - 135
Bromodichloromethane	25.0	25.5		ug/L		102	80 - 122
Dichlorodifluoromethane	25.0	26.0		ug/L		104	59 - 135
Ethylbenzene	25.0	28.0		ug/L		112	77 - 123
1,2-Dibromoethane	25.0	25.3		ug/L		101	77 - 120
Isopropylbenzene	25.0	26.0		ug/L		104	77 - 122
Methyl acetate	50.0	45.7		ug/L		91	74 - 133
Methyl tert-butyl ether	25.0	27.4		ug/L		110	77 - 120
Methylcyclohexane	25.0	27.9		ug/L		112	68 - 134
Methylene Chloride	25.0	29.9		ug/L		119	75 - 124
m,p-Xylene	25.0	27.0		ug/L		108	76 - 122
Naphthalene	25.0	26.7		ug/L		107	66 - 125
n-Butylbenzene	25.0	27.6		ug/L		110	71 - 128
N-Propylbenzene	25.0	26.7		ug/L		107	75 - 127
o-Xylene	25.0	27.9		ug/L		112	76 - 122
sec-Butylbenzene	25.0	27.8		ug/L		111	74 - 127
Tetrachloroethene	25.0	27.5		ug/L		110	74 - 122
Toluene	25.0	26.3		ug/L		105	80 - 122
trans-1,2-Dichloroethene	25.0	28.7		ug/L		115	73 - 127
trans-1,3-Dichloropropene	25.0	23.8		ug/L		95	80 - 120
Trichloroethene	25.0	26.1		ug/L		104	74 - 123
Trichlorofluoromethane	25.0	30.6		ug/L		123	62 - 150
Vinyl chloride	25.0	28.2		ug/L		113	65 - 133
cis-1,3-Dichloropropene	25.0	25.3		ug/L		101	74 - 124
Styrene	25.0	27.0		ug/L		108	80 - 120
tert-Butylbenzene	25.0	27.0		ug/L		108	75 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

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

Lab Sample ID: MB 480-747738/1-A
Matrix: Water
Analysis Batch: 747859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 747738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	5.0	U *3	5.0	0.65	ug/L		06/03/25 08:58	06/04/25 13:16	1
bis (2-chloroisopropyl) ether	5.0	U *3	5.0	0.52	ug/L		06/03/25 08:58	06/04/25 13:16	1
2,4,5-Trichlorophenol	5.0	U *3	5.0	0.48	ug/L		06/03/25 08:58	06/04/25 13:16	1
2,4,6-Trichlorophenol	5.0	U *3	5.0	0.61	ug/L		06/03/25 08:58	06/04/25 13:16	1
2,4-Dichlorophenol	5.0	U *3	5.0	0.51	ug/L		06/03/25 08:58	06/04/25 13:16	1
2,4-Dimethylphenol	5.0	U *3	5.0	0.50	ug/L		06/03/25 08:58	06/04/25 13:16	1
2,4-Dinitrophenol	10	U *3	10	2.2	ug/L		06/03/25 08:58	06/04/25 13:16	1
2,4-Dinitrotoluene	5.0	U *3	5.0	0.45	ug/L		06/03/25 08:58	06/04/25 13:16	1
2,6-Dinitrotoluene	5.0	U *3	5.0	0.40	ug/L		06/03/25 08:58	06/04/25 13:16	1
2-Chloronaphthalene	5.0	U *3	5.0	0.46	ug/L		06/03/25 08:58	06/04/25 13:16	1
2-Chlorophenol	5.0	U *3	5.0	0.53	ug/L		06/03/25 08:58	06/04/25 13:16	1
2-Methylnaphthalene	5.0	U *3	5.0	0.60	ug/L		06/03/25 08:58	06/04/25 13:16	1
2-Methylphenol	5.0	U *3	5.0	0.40	ug/L		06/03/25 08:58	06/04/25 13:16	1
2-Nitroaniline	10	U *3	10	0.42	ug/L		06/03/25 08:58	06/04/25 13:16	1
2-Nitrophenol	5.0	U *3	5.0	0.48	ug/L		06/03/25 08:58	06/04/25 13:16	1
3,3'-Dichlorobenzidine	5.0	U *3	5.0	0.40	ug/L		06/03/25 08:58	06/04/25 13:16	1
3-Nitroaniline	10	U *3	10	0.48	ug/L		06/03/25 08:58	06/04/25 13:16	1
4,6-Dinitro-2-methylphenol	10	U *3	10	2.2	ug/L		06/03/25 08:58	06/04/25 13:16	1
4-Bromophenyl phenyl ether	5.0	U *3	5.0	0.45	ug/L		06/03/25 08:58	06/04/25 13:16	1
4-Chloro-3-methylphenol	5.0	U *3	5.0	0.45	ug/L		06/03/25 08:58	06/04/25 13:16	1
4-Chloroaniline	5.0	U *3	5.0	0.59	ug/L		06/03/25 08:58	06/04/25 13:16	1
4-Chlorophenyl phenyl ether	5.0	U *3	5.0	0.35	ug/L		06/03/25 08:58	06/04/25 13:16	1
4-Methylphenol	10	U *3	10	0.36	ug/L		06/03/25 08:58	06/04/25 13:16	1
4-Nitroaniline	10	U *3	10	0.25	ug/L		06/03/25 08:58	06/04/25 13:16	1
4-Nitrophenol	10	U *3	10	1.5	ug/L		06/03/25 08:58	06/04/25 13:16	1
Acenaphthene	5.0	U *3	5.0	0.41	ug/L		06/03/25 08:58	06/04/25 13:16	1
Acenaphthylene	5.0	U *3	5.0	0.38	ug/L		06/03/25 08:58	06/04/25 13:16	1
Acetophenone	5.0	U *3	5.0	0.54	ug/L		06/03/25 08:58	06/04/25 13:16	1
Anthracene	5.0	U *3	5.0	0.28	ug/L		06/03/25 08:58	06/04/25 13:16	1
Atrazine	5.0	U *3	5.0	0.46	ug/L		06/03/25 08:58	06/04/25 13:16	1
Benzaldehyde	5.0	U *3	5.0	0.27	ug/L		06/03/25 08:58	06/04/25 13:16	1
Benzo(a)anthracene	5.0	U *3	5.0	0.36	ug/L		06/03/25 08:58	06/04/25 13:16	1
Benzo(a)pyrene	5.0	U *3	5.0	0.47	ug/L		06/03/25 08:58	06/04/25 13:16	1
Benzo(b)fluoranthene	5.0	U *3	5.0	0.34	ug/L		06/03/25 08:58	06/04/25 13:16	1
Benzo(g,h,i)perylene	5.0	U *3	5.0	0.35	ug/L		06/03/25 08:58	06/04/25 13:16	1
Benzo(k)fluoranthene	5.0	U *3	5.0	0.73	ug/L		06/03/25 08:58	06/04/25 13:16	1
Bis(2-chloroethoxy)methane	5.0	U *3	5.0	0.35	ug/L		06/03/25 08:58	06/04/25 13:16	1
Bis(2-chloroethyl)ether	5.0	U *3	5.0	0.40	ug/L		06/03/25 08:58	06/04/25 13:16	1
Bis(2-ethylhexyl) phthalate	5.0	U *3	5.0	2.2	ug/L		06/03/25 08:58	06/04/25 13:16	1
Butyl benzyl phthalate	5.0	U *3	5.0	1.0	ug/L		06/03/25 08:58	06/04/25 13:16	1
Caprolactam	5.0	U *3	5.0	2.2	ug/L		06/03/25 08:58	06/04/25 13:16	1
Carbazole	5.0	U *3	5.0	0.30	ug/L		06/03/25 08:58	06/04/25 13:16	1
Chrysene	5.0	U *3	5.0	0.33	ug/L		06/03/25 08:58	06/04/25 13:16	1
Di-n-butyl phthalate	5.0	U *3	5.0	0.31	ug/L		06/03/25 08:58	06/04/25 13:16	1
Di-n-octyl phthalate	5.0	U *3	5.0	0.47	ug/L		06/03/25 08:58	06/04/25 13:16	1
Dibenz(a,h)anthracene	5.0	U *3	5.0	0.42	ug/L		06/03/25 08:58	06/04/25 13:16	1
Dibenzofuran	10	U *3	10	0.51	ug/L		06/03/25 08:58	06/04/25 13:16	1
Diethyl phthalate	5.0	U *3	5.0	0.22	ug/L		06/03/25 08:58	06/04/25 13:16	1

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

Lab Sample ID: MB 480-747738/1-A
Matrix: Water
Analysis Batch: 747859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 747738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	5.0	U *3	5.0	0.36	ug/L		06/03/25 08:58	06/04/25 13:16	1
Fluoranthene	5.0	U *3	5.0	0.40	ug/L		06/03/25 08:58	06/04/25 13:16	1
Fluorene	5.0	U *3	5.0	0.36	ug/L		06/03/25 08:58	06/04/25 13:16	1
Hexachlorobenzene	5.0	U *3	5.0	0.51	ug/L		06/03/25 08:58	06/04/25 13:16	1
Hexachlorobutadiene	5.0	U *3	5.0	0.68	ug/L		06/03/25 08:58	06/04/25 13:16	1
Hexachlorocyclopentadiene	5.0	U *3	5.0	0.59	ug/L		06/03/25 08:58	06/04/25 13:16	1
Hexachloroethane	5.0	U *3	5.0	0.59	ug/L		06/03/25 08:58	06/04/25 13:16	1
Indeno(1,2,3-cd)pyrene	5.0	U *3	5.0	0.47	ug/L		06/03/25 08:58	06/04/25 13:16	1
Isophorone	5.0	U *3	5.0	0.43	ug/L		06/03/25 08:58	06/04/25 13:16	1
N-Nitrosodi-n-propylamine	5.0	U *3	5.0	0.54	ug/L		06/03/25 08:58	06/04/25 13:16	1
N-Nitrosodiphenylamine	5.0	U *3	5.0	0.51	ug/L		06/03/25 08:58	06/04/25 13:16	1
Naphthalene	5.0	U *3	5.0	0.76	ug/L		06/03/25 08:58	06/04/25 13:16	1
Nitrobenzene	5.0	U *3	5.0	0.29	ug/L		06/03/25 08:58	06/04/25 13:16	1
Pentachlorophenol	10	U *3	10	2.2	ug/L		06/03/25 08:58	06/04/25 13:16	1
Phenanthrene	5.0	U *3	5.0	0.44	ug/L		06/03/25 08:58	06/04/25 13:16	1
Phenol	5.0	U *3	5.0	0.39	ug/L		06/03/25 08:58	06/04/25 13:16	1
Pyrene	5.0	U *3	5.0	0.34	ug/L		06/03/25 08:58	06/04/25 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*	**3*	*25 - 144*	*06/03/25 08:58*	*06/04/25 13:16*	*1*
2-Fluorobiphenyl	*72*	**3*	*53 - 126*	*06/03/25 08:58*	*06/04/25 13:16*	*1*
2-Fluorophenol	*47*	**3*	*24 - 120*	*06/03/25 08:58*	*06/04/25 13:16*	*1*
Nitrobenzene-d5	*68*	**3*	*29 - 129*	*06/03/25 08:58*	*06/04/25 13:16*	*1*
p-Terphenyl-d14	*86*	**3*	*33 - 132*	*06/03/25 08:58*	*06/04/25 13:16*	*1*
Phenol-d5	*29*	**3*	*10 - 120*	*06/03/25 08:58*	*06/04/25 13:16*	*1*

Lab Sample ID: LCS 480-747738/2-A
Matrix: Water
Analysis Batch: 747859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 747738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	32.0	30.3	*3	ug/L		95	59 - 120
bis (2-chloroisopropyl) ether	32.0	29.4	*3	ug/L		92	21 - 136
2,4,5-Trichlorophenol	32.0	31.5	*3	ug/L		98	65 - 126
2,4,6-Trichlorophenol	32.0	30.4	*3	ug/L		95	64 - 120
2,4-Dichlorophenol	32.0	32.6	*3	ug/L		102	63 - 120
2,4-Dimethylphenol	32.0	33.5	*3	ug/L		105	47 - 120
2,4-Dinitrophenol	64.0	63.6	*3	ug/L		99	31 - 137
2,4-Dinitrotoluene	32.0	33.7	*3	ug/L		105	69 - 120
2,6-Dinitrotoluene	32.0	33.1	*3	ug/L		103	68 - 120
2-Chloronaphthalene	32.0	28.5	*3	ug/L		89	58 - 120
2-Chlorophenol	32.0	27.3	*3	ug/L		85	48 - 120
2-Methylnaphthalene	32.0	30.8	*3	ug/L		96	59 - 120
2-Methylphenol	32.0	25.7	*3	ug/L		80	39 - 120
2-Nitroaniline	32.0	32.6	*3	ug/L		102	54 - 127
2-Nitrophenol	32.0	35.6	*3	ug/L		111	52 - 125
3,3'-Dichlorobenzidine	32.0	32.3	*3	ug/L		101	49 - 135
3-Nitroaniline	32.0	26.1	*3	ug/L		81	51 - 120

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

Lab Sample ID: LCS 480-747738/2-A
Matrix: Water
Analysis Batch: 747859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 747738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	64.0	70.7	*3	ug/L		110	46 - 136
4-Bromophenyl phenyl ether	32.0	31.9	*3	ug/L		100	65 - 120
4-Chloro-3-methylphenol	32.0	32.5	*3	ug/L		102	61 - 123
4-Chloroaniline	32.0	20.3	*3	ug/L		63	30 - 120
4-Chlorophenyl phenyl ether	32.0	30.9	*3	ug/L		97	62 - 120
4-Methylphenol	32.0	25.6	*3	ug/L		80	29 - 131
4-Nitroaniline	32.0	29.2	*3	ug/L		91	65 - 120
4-Nitrophenol	64.0	43.1	*3	ug/L		67	45 - 120
Acenaphthene	32.0	33.5	*3	ug/L		105	60 - 120
Acenaphthylene	32.0	29.7	*3	ug/L		93	63 - 120
Acetophenone	32.0	28.8	*3	ug/L		90	45 - 120
Anthracene	32.0	36.6	*3	ug/L		114	67 - 120
Atrazine	32.0	28.8	*3	ug/L		90	71 - 130
Benzaldehyde	32.0	22.0	*3	ug/L		69	10 - 140
Benzo(a)anthracene	32.0	39.5	*3 *+	ug/L		123	70 - 121
Benzo(a)pyrene	32.0	31.3	*3	ug/L		98	60 - 123
Benzo(b)fluoranthene	32.0	30.5	*3	ug/L		95	66 - 126
Benzo(g,h,i)perylene	32.0	30.7	*3	ug/L		96	66 - 150
Benzo(k)fluoranthene	32.0	29.4	*3	ug/L		92	65 - 124
Bis(2-chloroethoxy)methane	32.0	34.6	*3	ug/L		108	50 - 128
Bis(2-chloroethyl)ether	32.0	31.1	*3	ug/L		97	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	32.1	*3	ug/L		100	63 - 139
Butyl benzyl phthalate	32.0	34.8	*3	ug/L		109	70 - 129
Caprolactam	32.0	8.74	*3	ug/L		27	22 - 120
Carbazole	32.0	44.9	*3	ug/L		140	66 - 147
Chrysene	32.0	35.9	*3	ug/L		112	69 - 120
Di-n-butyl phthalate	32.0	34.8	*3	ug/L		109	69 - 131
Di-n-octyl phthalate	32.0	31.8	*3	ug/L		99	63 - 140
Dibenz(a,h)anthracene	32.0	30.9	*3	ug/L		96	65 - 135
Dibenzofuran	32.0	30.5	*3	ug/L		95	66 - 120
Diethyl phthalate	32.0	34.9	*3	ug/L		109	59 - 127
Dimethyl phthalate	32.0	33.1	*3	ug/L		103	68 - 120
Fluoranthene	32.0	38.5	*3	ug/L		120	69 - 126
Fluorene	32.0	32.9	*3	ug/L		103	66 - 120
Hexachlorobenzene	32.0	32.7	*3	ug/L		102	61 - 120
Hexachlorobutadiene	32.0	26.5	*3	ug/L		83	35 - 120
Hexachlorocyclopentadiene	32.0	15.3	*3	ug/L		48	31 - 120
Hexachloroethane	32.0	25.1	*3	ug/L		78	33 - 120
Indeno(1,2,3-cd)pyrene	32.0	30.8	*3	ug/L		96	69 - 146
Isophorone	32.0	34.1	*3	ug/L		107	55 - 120
N-Nitrosodi-n-propylamine	32.0	30.3	*3	ug/L		95	32 - 140
N-Nitrosodiphenylamine	32.0	34.8	*3	ug/L		109	61 - 120
Naphthalene	32.0	33.5	*3	ug/L		105	57 - 120
Nitrobenzene	32.0	32.9	*3	ug/L		103	53 - 123
Pentachlorophenol	64.0	57.6	*3	ug/L		90	10 - 136
Phenanthrene	32.0	36.7	*3	ug/L		115	68 - 120
Phenol	32.0	15.9	*3	ug/L		50	17 - 120
Pyrene	32.0	36.1	*3	ug/L		113	70 - 125

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

Lab Sample ID: LCS 480-747738/2-A
Matrix: Water
Analysis Batch: 747859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 747738

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	103	*3	25 - 144
2-Fluorobiphenyl	98	*3	53 - 126
2-Fluorophenol	67	*3	24 - 120
Nitrobenzene-d5	103	*3	29 - 129
p-Terphenyl-d14	99	*3	33 - 132
Phenol-d5	48	*3	10 - 120

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

Lab Sample ID: MB 240-658494/1-A
Matrix: Water
Analysis Batch: 658699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 658494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.0	U	4.0	1.0	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluoropentanoic acid (PFPeA)	2.0	U	2.0	0.60	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorohexanoic acid (PFHxA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluoroheptanoic acid (PFHpA)	2.0	U	2.0	0.51	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorooctanoic acid (PFOA)	2.0	U	2.0	0.54	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorononanoic acid (PFNA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorodecanoic acid (PFDA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluoroundecanoic acid (PFUnA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorododecanoic acid (PFDoA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorotridecanoic acid (PFTrDA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorotetradecanoic acid (PFTeDA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorobutanesulfonic acid (PFBS)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluoropentanesulfonic acid (PFPeS)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorohexanesulfonic acid (PFHxS)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluoroheptanesulfonic acid (PFHpS)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorooctanesulfonic acid (PFOS)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorononanesulfonic acid (PFNS)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorododecanesulfonic acid (PFDoS)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.0	U	4.0	1.2	ng/L		06/04/25 08:40	06/05/25 12:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.0	U	4.0	1.0	ng/L		06/04/25 08:40	06/05/25 12:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.0	U	4.0	1.0	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorooctanesulfonamide (PFOSA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.0	U	2.0	0.67	ng/L		06/04/25 08:40	06/05/25 12:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1

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

Lab Sample ID: MB 240-658494/1-A
Matrix: Water
Analysis Batch: 658699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 658494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	10	U	10	3.0	ng/L		06/04/25 08:40	06/05/25 12:08	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	10	U	10	2.5	ng/L		06/04/25 08:40	06/05/25 12:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.5	U	1.5	0.46	ng/L		06/04/25 08:40	06/05/25 12:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.0	U	4.0	1.0	ng/L		06/04/25 08:40	06/05/25 12:08	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	10	U	10	2.5	ng/L		06/04/25 08:40	06/05/25 12:08	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	10	U	10	2.5	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluorodecanesulfonic acid (PFDS)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.0	U	2.0	0.50	ng/L		06/04/25 08:40	06/05/25 12:08	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89.8*		*5 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C5 PFPeA	*91.9*		*40 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C5 PFHxA	*86.2*		*40 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C4 PFHpA	*93.2*		*40 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C8 PFOA	*84.7*		*40 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C9 PFNA	*83.4*		*40 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C6 PFDA	*80.1*		*40 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C7 PFUnA	*79.8*		*30 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C2 PFTeDA	*73.4*		*10 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C3 PFBS	*85.8*		*40 - 135*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C3 PFHxS	*84.5*		*40 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C8 PFOS	*83.8*		*40 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C8 FOSA	*75.1*		*40 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
d3-NMeFOSAA	*88.0*		*40 - 170*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
d5-NEtFOSAA	*101*		*25 - 135*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C2 4:2 FTS	*90.6*		*40 - 200*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C2 6:2 FTS	*90.5*		*40 - 200*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C2 8:2 FTS	*86.1*		*40 - 300*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
13C3 HFPO-DA	*88.7*		*40 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
d7-N-MeFOSE-M	*62.0*		*10 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
d9-N-EtFOSE-M	*57.4*		*10 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
d5-NEtPFOSA	*59.9*		*10 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*
d3-NMePFOSA	*65.2*		*10 - 130*	*06/04/25 08:40*	*06/05/25 12:08*	*1*

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

Lab Sample ID: MB 240-658494/1-A
Matrix: Water
Analysis Batch: 658699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 658494

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoA	79.6		10 - 130	06/04/25 08:40	06/05/25 12:08	1

Lab Sample ID: LCS 240-658494/3-A
Matrix: Water
Analysis Batch: 658699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 658494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	86.8		ng/L		108	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	44.3		ng/L		111	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	45.2		ng/L		113	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	47.5		ng/L		119	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	45.3		ng/L		113	70 - 150
Perfluorononanoic acid (PFNA)	40.0	40.8		ng/L		102	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	44.9		ng/L		112	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	46.4		ng/L		116	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	42.4		ng/L		106	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	42.8		ng/L		107	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	44.8		ng/L		112	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	42.6		ng/L		120	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.6		ng/L		95	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	40.6		ng/L		111	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	43.1		ng/L		113	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	41.0		ng/L		110	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	40.5		ng/L		105	65 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	39.2		ng/L		101	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	84.5		ng/L		113	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	81.3		ng/L		107	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	83.5		ng/L		109	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	43.3		ng/L		108	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	44.2		ng/L		110	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	45.0		ng/L		112	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	39.7		ng/L		99	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	44.4		ng/L		111	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	224		ng/L		112	70 - 145

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

Lab Sample ID: LCS 240-658494/3-A
Matrix: Water
Analysis Batch: 658699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 658494

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)			200	224		ng/L		112	70 - 135		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)			30.0	34.0		ng/L		113	70 - 140		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.8	40.4		ng/L		107	65 - 145		
Perfluoro-4-methoxybutanoic acid (PFMBA)			40.0	42.0		ng/L		105	60 - 150		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			40.0	45.7		ng/L		114	50 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			37.4	43.1		ng/L		115	70 - 155		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			37.8	41.4		ng/L		110	55 - 160		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			35.7	41.6		ng/L		117	70 - 140		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			80.0	80.9		ng/L		101	65 - 130		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			200	205		ng/L		102	70 - 135		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			200	190		ng/L		95	50 - 145		
Perfluorodecanesulfonic acid (PFDS)			38.6	39.6		ng/L		103	60 - 145		
Perfluoro-3-methoxypropanoic acid (PFMPA)			40.0	41.8		ng/L		104	55 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*90.2*		*5 - 130*
13C5 PFPeA	*93.2*		*40 - 130*
13C5 PFHxA	*88.1*		*40 - 130*
13C4 PFHpA	*94.4*		*40 - 130*
13C8 PFOA	*87.3*		*40 - 130*
13C9 PFNA	*88.8*		*40 - 130*
13C6 PFDA	*87.3*		*40 - 130*
13C7 PFUnA	*84.5*		*30 - 130*
13C2 PFTeDA	*77.1*		*10 - 130*
13C3 PFBS	*89.5*		*40 - 135*
13C3 PFHxS	*88.5*		*40 - 130*
13C8 PFOS	*90.8*		*40 - 130*
13C8 FOSA	*77.8*		*40 - 130*
d3-NMeFOSAA	*87.8*		*40 - 170*
d5-NEtFOSAA	*112*		*25 - 135*
13C2 4:2 FTS	*89.6*		*40 - 200*
13C2 6:2 FTS	*94.3*		*40 - 200*
13C2 8:2 FTS	*92.2*		*40 - 300*
13C3 HFPO-DA	*90.8*		*40 - 130*
d7-N-MeFOSE-M	*53.3*		*10 - 130*
d9-N-EtFOSE-M	*47.1*		*10 - 130*
d5-NEtPFOSA	*62.1*		*10 - 130*

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

Lab Sample ID: LCS 240-658494/3-A
Matrix: Water
Analysis Batch: 658699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 658494

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d3-NMePFOSA	64.0		10 - 130
13C2-PFDoA	83.4		10 - 130

Lab Sample ID: LLCS 240-658494/2-A
Matrix: Water
Analysis Batch: 658699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 658494

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	8.44		ng/L		105	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.37		ng/L		109	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	4.27		ng/L		107	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.54		ng/L		113	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.55		ng/L		114	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.05		ng/L		101	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.52		ng/L		113	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.41		ng/L		110	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	3.99		ng/L		100	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	4.25		ng/L		106	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.24		ng/L		106	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	4.02		ng/L		113	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.58		ng/L		95	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	4.34		ng/L		119	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	4.11		ng/L		108	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	4.06		ng/L		109	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.98		ng/L		104	65 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.74		ng/L		96	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	7.80		ng/L		104	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	9.09		ng/L		119	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	8.70		ng/L		113	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	4.40		ng/L		110	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.33		ng/L		108	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.14		ng/L		103	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	4.09		ng/L		102	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	4.32		ng/L		108	70 - 145

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

Lab Sample ID: LLCS 240-658494/2-A
Matrix: Water
Analysis Batch: 658699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 658494

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	22.7		ng/L		113	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	21.1		ng/L		105	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	3.12		ng/L		104	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.96		ng/L		105	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.19		ng/L		105	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.20		ng/L		105	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3.74	3.93		ng/L		105	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.78	3.86		ng/L		102	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	3.76		ng/L		105	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	7.98		ng/L		100	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	18.7		ng/L		93	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	16.7		ng/L		84	50 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.85		ng/L		100	60 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.06		ng/L		101	55 - 140

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*92.0*		*5 - 130*
13C5 PFPeA	*93.7*		*40 - 130*
13C5 PFHxA	*91.7*		*40 - 130*
13C4 PFHpA	*92.0*		*40 - 130*
13C8 PFOA	*89.6*		*40 - 130*
13C9 PFNA	*89.3*		*40 - 130*
13C6 PFDA	*88.1*		*40 - 130*
13C7 PFUnA	*86.8*		*30 - 130*
13C2 PFTeDA	*80.0*		*10 - 130*
13C3 PFBS	*92.9*		*40 - 135*
13C3 PFHxS	*89.0*		*40 - 130*
13C8 PFOS	*91.0*		*40 - 130*
13C8 FOSA	*78.8*		*40 - 130*
d3-NMeFOSAA	*88.2*		*40 - 170*
d5-NEtFOSAA	*94.9*		*25 - 135*
13C2 4:2 FTS	*98.7*		*40 - 200*
13C2 6:2 FTS	*97.1*		*40 - 200*
13C2 8:2 FTS	*92.4*		*40 - 300*
13C3 HFPO-DA	*92.5*		*40 - 130*
d7-N-MeFOSE-M	*49.4*		*10 - 130*

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

Lab Sample ID: LLCS 240-658494/2-A
Matrix: Water
Analysis Batch: 658699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 658494

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
d9-N-EtFOSE-M	45.4		10 - 130
d5-NEtPFOSA	64.1		10 - 130
d3-NMePFOSA	65.4		10 - 130
13C2-PFDoA	87.2		10 - 130

GC/MS VOA

Analysis Batch: 747745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229827-1	OW-1 Resample	Total/NA	Water	8260C	
MB 480-747745/9	Method Blank	Total/NA	Water	8260C	
LCS 480-747745/7	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 747738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229827-1	OW-1 Resample	Total/NA	Water	3510C	
MB 480-747738/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-747738/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 747859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229827-1	OW-1 Resample	Total/NA	Water	8270D	747738
MB 480-747738/1-A	Method Blank	Total/NA	Water	8270D	747738
LCS 480-747738/2-A	Lab Control Sample	Total/NA	Water	8270D	747738

LCMS

Prep Batch: 658494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229827-1	OW-1 Resample	Total/NA	Water	1633	
MB 240-658494/1-A	Method Blank	Total/NA	Water	1633	
LCS 240-658494/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 240-658494/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 658562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229827-1	OW-1 Resample	Total/NA	Water	1633A	658494

Analysis Batch: 658699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-658494/1-A	Method Blank	Total/NA	Water	1633A	658494
LCS 240-658494/3-A	Lab Control Sample	Total/NA	Water	1633A	658494
LLCS 240-658494/2-A	Lab Control Sample	Total/NA	Water	1633A	658494

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229827-1
Project/Site: The Nest Site Analysis - 333 1St. Street

Client Sample ID: OW-1 Resample
Lab Sample ID: 480-229827-1

Date Collected: 05/30/25 16:00
Matrix: Water
Date Received: 05/30/25 16:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747745	ATG	EET BUF	06/03/25 14:07
Total/NA	Prep	3510C			747738	JMP	EET BUF	06/03/25 08:58
Total/NA	Analysis	8270D		1	747859	JMM	EET BUF	06/04/25 18:23
Total/NA	Prep	1633			658494	JVB4	EET CLE	06/04/25 08:40
Total/NA	Analysis	1633A		1	658562	DSH	EET CLE	06/04/25 18:22

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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229827-1
Project/Site: The Nest Site Analysis - 333 1St. Street

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	06-04-25

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
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	04-01-26
North Dakota	State	R-244	02-27-26
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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229827-1
Project/Site: The Nest Site Analysis - 333 1St. Street

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
1633A	Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A	EPA	EET CLE
1633	Solid-Phase Extraction (SPE)	EPA	EET CLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	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: Brydges Engineering in Environment & Energy DPC
Job ID: 480-229827-1
Project/Site: The Nest Site Analysis - 333 1St. Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-229827-1	OW-1 Resample	Water	05/30/25 16:00	05/30/25 16:53

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: J Hull	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No:
Client Contact: Alexis Palumbo-Compton	Phone:	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: 1 of 1
Company: Brydges Engineering in Evironment & Energy DPC	PWSID:			Job #:
Address: 960 Busti Ave Suite B-150	Due Date Requested:			
City: Buffalo	TAT Requested (days): ASAP			
State, Zip: NY, 14213	Compliance Project: Δ Yes Δ No			
Phone: 716-362-6533(Tel)	PO #:			
Email: apalumbo@be3corp.com	WO #:			
Project Name: The Nest	Project #: 48028073			
Site: 333 1st Street	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCL VOCs	TCL SVOCs	PFAS	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
OW-1 RESAMPLE	5.30.25	1600	G	W	N		X	X	X		

480-229827 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
J Hull	5/30/25	BE3	VKD	5-30-25 1603	
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:
		4.3 IR#6C Ice

Ver: 01/16/2019

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: Beninati, John	Carrier Tracking No(s): N/A	COC No: 480-92789.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Beninati@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 #: 480-229827-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 6/5/2025			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: The Nest Site Analysis 333 1St. Street	Project #: 48028073			Other: N/A
Site: N/A	SSOW#: N/A			

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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)	1633A/1633_SPE 1633 Standard List 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
OW-1 Resample (480-229827 1)	5/30/25	16:00 Eastern	G	Water			X	2	

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
	6-2-25 1600		JESSE MOROSKO	6/3/25 950	
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 unpacked by: JESSE MORUSKO

Cooler Received on 6/3/25 Opened on 6/3/25

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 # 17 (CF +0.2 °C) Observed Cooler Temp 0.4 °C Corrected Cooler Temp 0.6 °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)?	(Y) (Y) (Y)
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# HC463162
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

Labeled by:

Labels Verified 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: Brydges Engineering in Environment & Energy DPC

Job Number: 480-229827-1

Login Number: 229827

List Source: Eurofins Buffalo

List Number: 1

Creator: Stapleton, Kaitlyn

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	9.3 IR#SC ice
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	Brydges Engineering in Environmental& Energy
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	