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March 18, 2025

Mr. Christopher Allan
NYS Department of Environmental Conservation
Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor
Albany, New York, 12233-7017

Re: Quarterly Monitoring and Engineering Control System Inspection Report – 2025 1st Quarter
Newtown Creek Bud Site (NCBS) – North Block
2-21 Malt Drive, Long Island City, New York
BCP Site ID: C241248

Dear Mr. Allan:

This Quarterly Monitoring and Engineering Control System Inspection Report has been prepared by AKRF, Inc. (AKRF), on behalf of Bud North LLC, to summarize routine post-remedial groundwater monitoring and sampling activities, and Sub-Slab Depressurization System (SSDS) and Soil Vapor Extraction System (SVES) inspections performed at the NCBS – North Block Brownfield Cleanup Program (BCP) Site located at 2-21 Malt Drive, Long Island City, New York (the "Site", BCP Site No. C241248). The Site, which is also referred to as Block 11, Lot 1 on the New York City Tax Map, is an approximately 130,915-square-foot parcel located in the Hunter's Point South section of Long Island City, New York. Currently, the Site consists of a multi-story mixed use commercial and residential building that is under construction. A Site location map is provided as Figure 1, and a Site plan is provided as Figure 2.

The Volunteer entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in January 2022, to investigate and remediate the Site. The Site was remediated to Restricted Residential Use, and the SSDS and SVES began operation on September 27, 2023. AKRF's Final Engineering Report (FER) and Site Management Plan (SMP) were approved by NYSDEC, resulting in the issuance of a Certificate of Completion (CoC) on December 29, 2023.

Ongoing Site management activities are being performed in accordance with the SMP. Post-remediation monitoring and inspection activities conducted at the Site for the first quarter of 2025 included the following activities as described in this letter report:

- One quarterly groundwater sampling event (January 22 and 27, 2025);
- One quarterly detailed routine inspection (January 22 and 27, 2025) of the operating SSDS/SVES; and

The next quarterly inspection of the SSDS and SVES and groundwater monitoring will be performed in the second quarter of 2025, which will be documented in the Quarterly Report for the second quarter of 2025**.**

Background

The Remedial Investigation (RI) determined that the nature and extent of contaminated soil, groundwater, and soil vapor present at the Site consisted of the following contaminants: volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, metals, and per- and poly-fluoroalkyl substances (PFAS) in soil/fill; chlorinated solvent and petroleum-related VOCs and dichlorodifluoromethane (Freon-12) in soil vapor; and petroleum-related VOCs, Freon-12, polyaromatic hydrocarbons (PAHs), PCBs, metals, and PFAS in groundwater. A figure presenting groundwater sample results from the RI is included for comparison to this quarter's sampling results as Figure 3.

The remedial action included excavation and off-site disposal of source material in soil and implementation of a groundwater treatment program consisting of mechanical mixing of Regenesis® ORC Advanced® and PersulfOx® in the southwestern portion of the Site. Additionally, engineering controls were constructed at the Site, including installation of an SSDS, SVES, and a site-wide cover system. On November 28, 2022 and December 1, 2022, post-remedial groundwater samples were collected from two post-remedial groundwater monitoring wells installed within the Site boundary (MW-01, MW-02, and MW-03) and submitted for laboratory analysis of VOCs. The post-remedial groundwater samples collected from the Site indicated that petroleum-related VOCs, including benzene, ethylbenzene, xylenes, toluene (collectively referred to as BTEX), and 1,2,4-trimethylbenzene were still present in groundwater at the Site above the Technical and Operational Guidance Series (TOGS) 1.1.1. Ambient Water Quality Standards and Guidance Values (AWQSGVs). A figure presenting the post-remedial groundwater sample results is included as Figure 4.

Quarterly Groundwater Monitoring

This quarterly monitoring report comprises a summary of the findings from the monitoring, sampling, and associated analytical reports and field sampling logs during the first quarter of 2025. In accordance with SMP, further assessment (and recommendations, if necessary) will be provided in the annual Periodic Review Report (PRR).

Field Methods

On January 22 and 27, 2025, groundwater samples were collected from the three on-site monitoring wells (MW-01, MW-02, and MW-03) in accordance with United States Environmental Protection Agency (EPA) low flow sampling methodology and the Site-specific Quality Assurance and Project Plan (QAPP) and Field Sampling Plan (FSP), which are included as Appendix H of the SMP. Matrix spike/matrix spike duplicates (MS/MSD) samples and a blind duplicate sample were taken and analyzed from well MW-01 and MW-02, respectively. Groundwater samples were collected using dedicated and decontaminated sampling equipment.

Prior to collecting the groundwater samples, the depth to groundwater and the total well depth was measured at each of the groundwater monitoring well using an oil/water interface probe attached to a measuring tape accurate to 0.01 foot. A sulfur-(rotten egg)-like odor was observed in two of the wells (MW-01 and MW-02). All purge water from the groundwater monitoring wells was containerized in a labeled, NYSDOT-approved 55-gallon drum for off-site disposal at a permitted facility. Groundwater sampling logs are provided in Attachment A.

The groundwater samples were collected and submitted to Eurofins Test America (Test America) of Edison, NJ, a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. In accordance with the SMP, the groundwater samples were analyzed for VOCs by EPA Method 8260D, and Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) and Oil Range Organics (ORO). At the request of the NYSDEC and the United States Environmental Protection Agency (EPA), the groundwater samples were also analyzed for Extractable Petroleum Hydrocarbons (EPH) [C19-C36] via the MADEP Method, Semivolatile Organic Compounds (SVOCs) by EPA Method 8270E, Target Compound List (TCL) Pesticides by EPA Method 8081B,Total Cyanide, TCL Polychlorinated biphenyls (PCBs) by EPA Method 8082A, Dissolved and Total Target Analyte List (TAL) Metals, Hexavalent Chromium by EPA Method 7196 and Per- and polyfluoroalkyl substances (PFAS) by EPA Method 1663 with Category B deliverables. A trip blank sample and blind duplicate sample were also sent with the samples for VOC analysis.

Results

VOCs

The petroleum-related VOC, benzene, was detected in groundwater samples MW-01 and MW-02 (plus the blind duplicate sample) at concentrations of 9.0 µg/L and 3.3 µg/L, respectively, above the Ambient Water Quality Standard and Guidance Value (AWQSGV) of 1 µg/L.

TPH DRO & ORO

Due to a miscommunication with the laboratory, TPH DRO and ORO were only analyzed in the groundwater sample collected from monitoring well MW-03. TPH DRO was detected at a concentration of 520 µg/L in MW-03. TPH ORO was not detected in the sample.

SVOCs

A total of 17 SVOCs were detected in one or more of the monitoring wells. One SVOC, naphthalene, was detected above the AWQSGV of 10 µg/L in the samples collected from MW-01 (21 µg/L), MW-02 (12 µg/L), and in the blind duplicate (16 µg/L).

Metals

Nineteen metals were detected at variable concentrations in one or more of the monitoring wells. Five metals (iron, lead, magnesium, manganese, and sodium) were detected in one or more of the wells at concentrations above the AWQSGVs.

PCBs and Pesticides

PCBs and pesticides were not detected in the groundwater samples collected from the monitoring wells.

EPH

EPH was detected in one or more of the samples. C11 through C22 aromatics and/or C9 through C18 aliphatics were detected at variable concentrations in samples collected from MW-01, MW-02, and in the blind duplicate.

PFAS

The compounds perfluorooctanessulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) were detected at concentrations above the AWQSGVs in all three wells. PFOS was detected at concentrations between 5.20 nanograms per liter (ng/l) in MW-03 and 13.2 ng/l in the blind duplicate sample collected from monitoring well MW-01, and PFOA was detected at concentrations between 31.4 ng/l in MW-01 and 50.0 ng/l in MW-03.

A summary of the first quarter 2025 groundwater sample results is provided in Tables 1A through 1F, with concentrations of VOCs and TPH over time provided in Table 2. A summary of exceedances of the AWQSGVs is presented in Figure 4. The complete data analytical report and Data Usability Summary Report (DUSR) are provided in Attachment B.

Third-Party DUSR Results

Third-party data validation was performed by Jeri Rossi of Cranford, NJ, and a DUSR was prepared (Attachment B), which confirmed usability of the data with additional qualifiers. Validated electronic data deliverables (EDDs) will be submitted to NYSDEC via the Environmental Quality Information System (EQuIS™).

SSDS Inspection

The summary of the inspection conducted in the first quarter of 2025 (on January 27, 2025), is provided in the sections below, and all observations and readings collected during the inspection were recorded on the SSDS Monitoring Inspection Form included in Attachment C. The layout of the SSDS is shown on Figure 5. The following items were inspected and noted to conform to the design standards or did not require additional maintenance during the completion of the Quarterly Monitoring Inspection of the SSDS:

- The SSDS blower was operating, and air was discharging through the exhaust piping;
- Confirmation that the pressure and air flow rate gauges were clean and within normal ranges;
- Confirmation that the blower effluent photoionization detector readings and temperatures were within acceptable ranges;
- The concrete floor slab overlying the SSDS piping was intact;
- Confirmation that the exterior control panel was clean; and
- Confirmation of the structural integrity of exhaust stack on the roof of the Site building.

The induced vacuum levels collected from the SSDS monitoring points (MP-01 through MP-14) ranged from 0.71 to 0.85 inches of water (in H_2O) as summarized in Table I below. The applied vacuum for the individual SSDS riser legs of the manifold (SSDS-N1 through SSDS-N16) ranged from 1.0 to 1.8 in H_2O, and the air flow rate ranged from 3 to 44 standard cubic feet per minute (SCFM).

Table I
SSDS Monitoring Point Vacuum Readings – January 2025

Monitoring Point	Vacuum (in. H_2O)
MP-01	0.76
MP-02	0.81
MP-03	Covered
MP-04	0.74
MP-05	0.82
MP-06	0.71
MP-07	0.75
MP-08	0.73
MP-09	0.79
MP-10	0.85
MP-11	0.83
MP-12	0.85
MP-13	0.76
MP-14	0.76

SVES Inspection

The summary of the inspection conducted in the first quarter of 2025 (on January 27, 2025), is provided in the sections below, and all observations and readings collected during the inspection were recorded on the SVES Monthly System Inspection Form included in Attachment C. The system layout is presented in Figure 5. The following items were inspected and noted to conform to the design standards or did not require additional maintenance during the completion of the Monthly Inspection of the SVES:

- The system was cycled on this month;
- That condensate in the knockout tank gauge is below the low-high float sensor;
- The SVES blower and transfer pump are currently operating properly; and
- Confirmation that the vacuum and air flow gauges were clean and within normal ranges.

The induced vacuum levels from the SVE monitoring points (SVMP-01 through SVMP-06) ranged from 0.69 to 0.85 in H_2O as summarized in Table II below. The applied vacuum for the individual SVE riser legs of the manifold (SVE-01 through SVE-05) ranged from 1.8 to 4.5 in H_2O, and the SVE riser air flow rates ranged from 3 to 38 CFM.

Table II
SVE Monitoring Point Vacuum Readings – January 2025

Monitoring Point	Vacuum (in. H_2O)
SVMP-1	0.79
SVMP-2	0.75
SVMP-3	0.85
SVMP-4	0.69
SVMP-5	0.71
SVMP-6	0.81

Third-Party DUSR Results

Third-party data validation was performed by Jeri Rossi of Cranford, NJ, and a DUSR was prepared (Attachment B), which confirmed usability of the data with additional qualifiers. Validated electronic data deliverables (EDDs) will be submitted to NYSDEC via the Environmental Quality Information System (EQuIS™).

Conclusions

Groundwater Monitoring

The groundwater monitoring and sampling results indicated that while benzene is still present in groundwater above AWQSGVs in groundwater in the southwestern portion of the Site (MW-01 and MW-2), there was a significant reduction of petroleum VOCs in groundwater from post-remediation to present-day. No VOCs were detected in MW-03. TPH- DRO and ORO were also detected in groundwater, but in the upgradient monitoring well suggesting the detections may be at least partially due to regional groundwater quality. The favorable (low) post-remedial groundwater results indicate that a reduction in the frequency and duration of the required groundwater monitoring program as per the SMP is warranted.

As requested by NYSDEC EPA, groundwater samples were also collected and analyzed for EPH, SVOCs, TCL pesticides, total cyanide, TCL PCBs, TAL metals, hexavalent chromium, and PFAS during the first quarter of 2025 (for the final time). One SVOC (naphthalene), metals, and PFOA and PFOS were detected in one or more of the groundwater samples at concentrations above the AWQSGVs. The detected compounds are commonly found in historic fill and/or groundwater in New York City and were likely the result of regional groundwater conditions and not related to any on-site sources.

SSDS Inspection

The flow rate readings collected for the individual SSDS riser legs of the manifolds are operating below the expected rate. However, the applied vacuum for the SSDS riser legs are operating within the expected range, and the induced vacuum observed at the SSDS monitoring points are two orders of magnitude above the minimum threshold of 0.004 in H_2O. Overall, the system is operating properly at the Site.

SVES Inspection

The flow rate reading collected from one of the individual SVES riser legs of the manifold indicate that one riser legs is operating slightly below the expected range. However, the applied vacuum for the SVE riser legs are operating within the expected range, and the induced vacuum observed at the SVE monitoring points are well above the minimum threshold of 0.1 in H_2O. The post-blower pressure slightly exceeds the expected level, but the overall system is operating properly at the Site.

Based on these results, AKRF respectfully requests the following:

1. That the Volunteer be permitted to remove the carbon drums from the SVE system and begin operating without carbon filtration; and
2. That the Volunteer be permitted to begin cycling the SVE system on a monthly basis with the goal of terminating operation by the end of 2025.

Scheduled Activities

In accordance with the SMP, the following is required following approval of the SMP:

- Eight post-remedial quarterly groundwater monitoring and sampling events in the first two years after SMP approval,
- Ongoing quarterly SSDS and SVES routine operations inspections, and
- Ongoing annual SSDS and SVES detailed operations inspections.

The next quarterly groundwater sampling event, SSDS inspection, and SVES inspection will be performed during the Second quarter of 2025 (likely April of 2025).

If you have any questions regarding the information presented herein, please contact Patrick Diggins at (914) 922-2784 or Marc Godick at (914) 922-2356.

Sincerely,
AKRF, Inc.

Marc S. Godick, LEP
Senior Vice President

J. Patrick Diggins
Senior Technical Director

In-Text Table: Table I SSDS Monitoring Point Vacuum Readings – January 2025
Table II SVE Monitoring Point Vacuum Readings – January 2025

Attachments:

Table 1 Post-Remedial Groundwater Concentrations – January 2025
Table 2 Post-Remedial Groundwater Concentrations Over Time

Figure 1 BCP Site Location
Figure 2 BCP Site Plan
Figure 3 Remedial Investigation Groundwater Sample Results
Figure 4 Post-Remedial Groundwater Sample Results – January 2025
Figure 5 SSDS and SVES Layout

Attachment A Groundwater Sampling Logs
Attachment B Laboratory Analytical Reports and DUSRs
Attachment C SSDS and SVES Inspection Logs

cc (electronic copy only):
Andre Obligado, Jane O'Connell – NYSDEC
Bruce Weill, Nicholas Vasta, Frank Vasta, George Georgioudakis – Bud North LLC
Rebecca Kinal, P.E. – AKRF

TABLES

Table 1A
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations – January 2025
VOCs and TPH

AKRF Sample ID		MW-01_20250122	MW-02_20250122	MW-0X_20250122	MW-03_20250127	FB-01_20250122	TB-01_20250122
Laboratory Sample ID		460-319158-2	460-319158-1	460-319158-3	460-319369-1	460-319158-4	460-319158-5
Date Sampled		1/22/2025	1/22/2025	1/22/2025	1/27/2025	1/22/2025	1/22/2025
Unit		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	1	1	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	1 UJ	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 UJ	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Acetone	**50**	**53**	5 U	5 U	**340**	5 U	5 U
Benzene	**1**	**9**	**3.3**	**3.3**	1 U	1 U	1 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	60	2.9	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	NS	1 UJ	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1.9	0.73 J	0.77 J	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	0.35 J	1 U	1 U	1 U	1 U
M,P-Xylenes	5	1.7	0.7 J	0.72 J	1 U	1 U	1 U
Methyl Acetate	NS	5 U	5 U	5 U	5 U	5 U	5 U
Methyl Ethyl Ketone (2-Butanone)	50	36 L	5 U	5 U	35	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	NS	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	5	1.6	0.59 J	0.61 J	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	10	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene (PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1.9	0.95 J	0.9 J	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U
Total Petroleum Hydrocarbons (TPH)	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
TPH - Diesel Range Organics (C10 - C28)	NS	NR	NR	NR	520	NR	NR
TPH - Oil Range Organics	NS	NR	NR	NR	100 U	NR	NR

Table 1B
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations – January 2025
SVOCs

AKRF Sample ID		MW-01_20250122	MW-02_20250122	MW-0X_20250122	MW-03_20250127	FB-01_20250122
Laboratory Sample ID		460-319158-2	460-319158-1	460-319158-3	460-319369-1	460-319158-4
Date Sampled		1/22/2025	1/22/2025	1/22/2025	1/27/2025	1/22/2025
Unit		µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	1	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	5	10 U	10 U	10 U	10 U	10 U
1,4-Dioxane (P-Dioxane)	0.35	0.3	0.2 U	0.19 J	0.2 U	0.2 U
2,3,4,6-Tetrachlorophenol	NS	10 U	10 U	10 UJ	10 UJ	10 U
2,4,5-Trichlorophenol	NS	10 U	10 U	10 UJ	10 UJ	10 U
2,4,6-Trichlorophenol	NS	10 U	10 U	10 UJ	10 UJ	10 U
2,4-Dichlorophenol	5	10 U	10 U	10 UJ	10 UJ	10 U
2,4-Dimethylphenol	50	0.72 J	10 U	10 UJ	10 UJ	10 U
2,4-Dinitrophenol	10	40 U	40 U	40 UJ	40 UJ	40 U
2,4-Dinitrotoluene	5	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	5	2 U	2 U	2 U	2 U	2 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	NS	10 U	10 U	10 UJ	10 UJ	10 U
2-Methylnaphthalene	NS	2.2 J	2.6 J	3 J	10 U	10 U
2-Methylphenol (O-Cresol)	NS	1 J	10 U	10 UJ	10 UJ	10 U
2-Nitroaniline	5	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	NS	10 U	10 U	10 UJ	10 UJ	10 U
3,3'-Dichlorobenzidine	5	10 UJ	10 UJ	10 U	10 UJ	10 UJ
3-Nitroaniline	5	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	20 U	20 U	20 UJ	20 UJ	20 U
4-Bromophenyl Phenyl Ether	NS	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	NS	10 U	10 U	10 UJ	10 UJ	10 U
4-Chloroaniline	5	10 UJ	10 U	10 U	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (P-Cresol)	NS	0.83 J	10 U	10 UJ	10 UJ	10 U
4-Nitroaniline	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
4-Nitrophenol	NS	20 U	20 U	20 UJ	20 UJ	20 U
Acenaphthene	20	5.6 J	4.6 J	5.5 J	10 U	10 U
Acenaphthylene	NS	10 U	10 U	10 U	10 U	10 U
Acetophenone	NS	10 U	10 U	10 U	10 U	10 U
Anthracene	50	2.8 J	3.6 J	3.3 J	10 U	10 U
Atrazine	7.5	2 U	2 U	2 U	2 U	2 U
Benzaldehyde	NS	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)Anthracene	0.002	1 UJ	1 UJ	1 U	1 UJ	1 UJ
Benzo(a)Pyrene	ND	1 UJ	1 UJ	1 U	1 UJ	1 UJ
Benzo(b)Fluoranthene	0.002	2 UJ	2 UJ	2 U	2 UJ	2 UJ
Benzo(g,h,i)Perylene	NS	10 UJ	10 UJ	10 U	10 UJ	10 U
Benzo(k)Fluoranthene	0.002	1 UJ	1 UJ	1 U	1 UJ	1 UJ
Benzyl Butyl Phthalate	50	10 U	10 U	10 U	10 U	10 U
Biphenyl (Diphenyl)	5	10 U	1.3 J	1.5 J	10 U	10 U
Bis(2-Chloroethoxy) Methane	5	10 U	10 U	10 U	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	1 U	1 U	1 U	1 U	1 U
Bis(2-Chloroisopropyl) Ether	5	10 U	10 U	10 U	10 U	10 U
Bis(2-Ethylhexyl) Phthalate	5	2 UJ	2 UJ	2 U	2 UJ	2 UJ
Caprolactam	NS	10 UJ	10 UJ	10 UJ	12 L	10 UJ
Carbazole	NS	7.2 J	7.7 J	10	10 U	10 U
Chrysene	0.002	2 UJ	2 UJ	2 U	2 UJ	2 UJ
Dibenz(a,h)Anthracene	NS	1 UJ	1 UJ	1 U	1 UJ	1 UJ
Dibenzofuran	NS	5.4 J	11	13	10 U	10 U
Diethyl Phthalate	50	10 U	10 U	10 U	10 U	10 U
Dimethyl Phthalate	50	10 U	10 U	10 U	10 U	10 U
Di-N-Butyl Phthalate	50	10 U	10 U	10 U	10 U	10 U
Di-N-Octylphthalate	50	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Fluoranthene	50	4.2 J	6 J	5.9 J	10 U	10 U
Fluorene	50	8.5 J	13	14	10 U	10 U
Hexachlorobenzene	0.04	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U
Hexachlorocyclopentadiene	5	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	5	2 U	2 U	2 U	2 U	2 U
Indeno(1,2,3-c,d)Pyrene	0.002	2 UJ	2 UJ	2 U	2 UJ	2 UJ
Isophorone	50	10 U	10 U	10 U	10 U	10 U
Naphthalene	**10**	**21**	**12**	**16**	2 U	2 U
Nitrobenzene	0.4	1 U	1 U	1 U	1 U	1 U
N-Nitrosodi-N-Propylamine	NS	1 U	1 U	1 U	1 U	1 U
N-Nitrosodiphenylamine	50	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	NS	20 U	20 U	20 U	20 U	20 U
Phenanthrene	50	18	38	40	10 U	10 U
Phenol	1	0.94 J	10 UJ	10 UJ	10 UJ	10 UJ
Pyrene	50	2.8 J	3.5 J	3.6 J	10 U	10 U

Table 1C
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations – January 2025
Total Metals

AKRF Sample ID		MW-01_20250122	MW-02_20250122	MW-0X_20250122	MW-03_20250127	FB-01_20250122
Laboratory Sample ID		460-319158-2	460-319158-1	460-319158-3	460-319369-1	460-319158-4
Date Sampled		1/22/2025	1/22/2025	1/22/2025	1/27/2025	1/22/2025
Unit		µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	1	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	316	25.7 J	24.8 J	1,210	40 U
Antimony	**3**	**3.1**	2 U	2 U	2 U	2 U
Arsenic	25	12.4	2	2.3	6.5	2 U
Barium	1,000	74.5	53.1	51.6	48.3	4 U
Beryllium	3	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Cadmium	5	2 U	2 U	2 U	1.1 J	2 U
Calcium	NS	203,000	198,000	196,000	254,000	34 J
Chromium, Total	50	4 U	4 U	4 U	40.9	4 U
Cobalt	NS	1.4 J	1.4 J	1.4 J	28.8	4 U
Copper	200	4.3	4 U	4 U	32.4	4 U
Iron	**300**	**829**	**382**	**374**	**66,300**	120 U
Lead	**25**	8.2	1.2 U	1.2 U	**34.5**	1.2 U
Magnesium	**35,000**	**41,600**	24,900	24,500	**47,600**	200 U
Manganese	**300**	106	142	142	**1,990**	8 U
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.11 J	0.2 U
Nickel	100	6	2.7 J	2.6 J	33.5	4 U
Potassium	NS	59,900	30,100	28,900	31,500	200 U
Selenium	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Silver	50	2 U	2 U	2 U	2 U	2 U
Sodium	**20,000**	**346,000**	**201,000**	**198,000**	**356,000**	500 U
Thallium	0.5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Vanadium	NS	6.6	1.4 J	1.4 J	4.6	4 U
Zinc	2,000	16 U	16 U	16 U	81.8	16 U

Table 1D
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations – January 2025
PCBs

AKRF Sample ID		MW-01_20250122	MW-02_20250122	MW-0X_20250122	MW-03_20250127	FB-01_20250122
Laboratory Sample ID		460-319158-2	460-319158-1	460-319158-3	460-319369-1	460-319158-4
Date Sampled		1/22/2025	1/22/2025	1/22/2025	1/27/2025	1/22/2025
Unit		µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	1	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1221 (Aroclor 1221)	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1232 (Aroclor 1232)	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1242 (Aroclor 1242)	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1248 (Aroclor 1248)	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1254 (Aroclor 1254)	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1260 (Aroclor 1260)	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1262 (Aroclor 1262)	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1268 (Aroclor 1268)	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Total PCBs	0.09	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U

Table 1E
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations – January 2025
Pesticides

AKRF Sample ID		MW-01_20250122	MW-02_20250122	MW-0X_20250122	MW-03_20250127	FB-01_20250122
Laboratory Sample ID		460-319158-2	460-319158-1	460-319158-3	460-319369-1	460-319158-4
Date Sampled		1/22/2025	1/22/2025	1/22/2025	1/27/2025	1/22/2025
Unit		µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	1	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	ND	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Alpha Endosulfan	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Beta Endosulfan	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan Sulfate	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfans ABS	NS	0 U	0 U	0 U	0 U	0 U
Endrin	ND	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin Aldehyde	5	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin Ketone	5	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Gamma Bhc (Lindane)	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor Epoxide	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
P,P'-DDD	0.3	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
P,P'-DDE	0.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
P,P'-DDT	0.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Silvex (2,4,5-TP)	0.26	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 UJ
Toxaphene	0.06	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 1F
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations – January 2025
PFAS

AKRF Sample ID		MW-01_20250122	MW-02_20250122	MW-0X_20250122	MW-03_20250127	FB-01_20250122
Laboratory Sample ID		460-319159-2	460-319159-1	460-319159-3	460-319401-1	460-319159-4
Date Sampled		1/22/2025	1/22/2025	1/22/2025	1/27/2025	1/22/2025
Unit		ppt	ppt	ppt	ppt	ppt
Dilution Factor		1	1	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	NS	6.32 U	5.92 U	6.15 U	17.1 UJ	5.99 U
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	NS	6.32 U	5.92 U	6.15 U	17.1 UJ	5.99 U
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	NS	6.32 U	5.92 U	6.15 U	17.1 UJ	5.99 U
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	NS	6.32 U	5.92 U	6.15 U	17.1 UJ	5.99 U
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	NS	39.5 U	37 U	38.4 U	107 UJ	37.4 U
3-Perfluoropentylpropanoic acid (5:3 FTCA)	NS	39.5 U	37 U	38.4 U	107 UJ	37.4 U
3-Perfluoropropylpropanoic acid (3:3 FTCA)	NS	7.9 U	7.4 U	7.69 U	21.3 UJ	7.49 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	6.32 U	5.92 U	6.15 U	17.1 UJ	5.99 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	NS	6.32 U	5.92 U	6.15 U	17.1 UJ	5.99 U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	NS	6.32 U	5.92 U	6.15 U	17.1 UJ	5.99 U
N-ethylperfluorooctane sulfonamide (NEtFOSA)	NS	1.58 U	1.48 U	1.54 U	4.27 UJ	1.5 U
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	NS	15.8 U	14.8 U	15.4 U	42.7 UJ	15 U
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NS	1.58 U	1.48 U	1.54 U	4.27 UJ	1.5 U
N-methylperfluorooctane sulfonamide (NMeFOSA)	NS	1.58 U	1.48 U	1.54 U	4.27 UJ	1.5 U
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	NS	15.8 U	14.8 U	15.4 U	42.7 UJ	15 U
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NS	1.58 U	1.48 U	0.81 J	4.27 UJ	1.5 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NS	3.16 U	2.96 U	3.08 U	8.53 UJ	3 U
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	NS	3.16 U	2.96 U	3.08 U	8.53 UJ	3 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NS	3.16 U	2.96 U	3.08 U	8.53 UJ	3 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NS	3.16 U	2.96 U	3.08 U	8.53 UJ	3 U
Perfluorobutanesulfonic acid (PFBS)	NS	2.47	13.2	12.5	22.3 L	1.5 U
Perfluorobutanoic acid (PFBA)	NS	9.72 J	22.3 J	23.9	34.5 J	5.99 U
Perfluorodecanesulfonic acid (PFDS)	NS	1.58 UJ	1.48 UJ	1.54 UJ	4.27 UJ	1.5 UJ
Perfluorodecanoic acid (PFDA)	NS	1.58 U	0.89 J	0.81 J	4.27 UJ	1.5 U
Perfluorododecanesulfonic acid (PFDoS)	NS	1.58 U	1.48 U	1.54 U	4.27 UJ	1.5 U
Perfluorododecanoic acid (PFDoA)	NS	1.58 U	1.48 U	1.54 U	4.27 UJ	1.5 U
Perfluoroheptanesulfonic acid (PFHpS)	NS	1.58 U	1.48 U	1.54 U	4.27 UJ	1.5 U
Perfluoroheptanoic acid (PFHpA)	NS	6.02 J	13.4 J	13	17.3 J	1.5 U
Perfluorohexanesulfonic acid (PFHxS)	NS	1.28 J	4.06 J	4.33	4.44 J	1.5 U
Perfluorohexanoic acid (PFHxA)	NS	9.32 J	42 J	41.8	54.1 J	1.5 U
Perfluorononanesulfonic acid (PFNS)	NS	1.58 U	1.48 U	1.54 U	4.27 UJ	1.5 U
Perfluorononanoic acid (PFNA)	NS	0.89 J	2.43 J	2.67	2.05 J	1.5 U
Perfluorooctanesulfonamide (PFOSA)	NS	1.58 U	1.48 U	1.54 U	4.27 UJ	1.5 U
Perfluorooctanesulfonic acid (PFOS)	**2.7**	**6.05 J**	**12.7 J**	**13.2**	**5.2 J**	1.5 U
Perfluorooctanoic acid (PFOA)	**6.7**	**31.4 J**	**45.5 J**	**47**	**50 J**	1.5 U
Perfluoropentanesulfonic acid (PFPeS)	NS	0.48 J	0.7 J	0.7 J	4.27 UJ	1.5 U
Perfluoropentanoic acid (PFPeA)	NS	8.8 J	37.4 J	37.7	40.4 J	3 U
Perfluorotetradecanoic acid (PFTeDA)	NS	1.58 U	1.48 U	1.54 U	4.27 UJ	1.5 U
Perfluorotridecanoic acid (PFTrDA)	NS	1.58 U	1.48 U	1.54 U	4.27 UJ	1.5 U
Perfluoroundecanoic acid (PFUnA)	NS	1.58 U	1.48 U	1.54 U	4.27 UJ	1.5 U

Table 1G
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations – January 2025
EPH

AKRF Sample ID	MW-01_20250122	MW-02_20250122	MW-0X_20250122	MW-03_20250127
Laboratory Sample ID	460-319158-2	460-319158-1	460-319158-3	460-319369-1
Date Sampled	1/22/2025	1/22/2025	1/22/2025	1/27/2025
Unit	µg/L	µg/L	µg/L	µg/L
Dilution Factor	1	1	1	1
Compound	CONC Q	CONC Q	CONC Q	CONC Q
C11-C22 AROMATICS	100	220	190	38 U
EXTRACTABLE PETROLEUM HYDROCARBONS C11-C22 AROMAT	60	120	110	38 U
EXTRACTABLE PETROLEUM HYDROCARBONS C19-C36 ALIPHAT	48 U	48 U	48 U	47 U
EXTRACTABLE PETROLEUM HYDROCARBONS C9-C18 ALIPHAT	29 U	29	29 U	28 U

Table 2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations Over Time
VOCs and TPH

AKRF Sample ID		MW-01_20221128	DUP-01_20221128	MW-01_20240304	MW-1_20240612	MW-X_20240612	MW-01_20240816	MW-01_20241018	MW-01_20250122
Laboratory Sample ID		22K1477-01	22K1477-02	L2411621-01	L2433259-05	L2433259-02	L2446856-01	L2460992-03	460-319158-2
Date Sampled		11/28/2022	11/28/2022	3/04/2024	6/12/2024	6/12/2024	8/16/2024	10/18/2024	1/22/2025
Unit		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		25	25	1	1	1	1	1	1
Volatile Organic Compounds (VOCs)	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1,2-Tetrachloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,1,1-Trichloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	5 U	5 U	NR	NR	NR	NR	NR	1 UJ
1,1,2-Trichloroethane	1	5 U	5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1 U
1,1-Dichloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,1-Dichloroethene	5	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 UJ
1,1-Dichloropropene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,2,3-Trichlorobenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,2,3-Trichloropropane	0.04	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,2,4,5-Tetramethylbenzene	5	NR	NR	2 U	2 U	2 U	2 U	2 U	NR
1,2,4-Trichlorobenzene	5	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,2,4-Trimethylbenzene	**5**	5 U	**7 JD**	0.7 J	2.5 U	0.79 J	2.5 U	2.5 U	NR
1,2-Dibromo-3-Chloropropane	0.04	NR	NR	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	NR	NR	2 U	2 U	2 U	2 U	2 U	1 U
1,2-Dichlorobenzene	3	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,2-Dichloroethane	0.6	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
1,2-Dichloropropane	1	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,3-Dichlorobenzene	3	NR	NR	NR	NR	NR	NR	2.5 U	1 U
1,3-Dichloropropane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,4-Dichlorobenzene	3	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,4-Diethyl Benzene	NS	NR	NR	2 U	2 U	2 U	2 U	2 U	NR
2,2-Dichloropropane	5	5 UJ	5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
2-Chlorotoluene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
4-Chlorotoluene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
4-Ethyltoluene	NS	NR	NR	2 U	2 U	2 U	2 U	2 U	NR
Acetone	50	25 UJ	25 UJ	1.7 J	5 U	5 U	5 U	5.7 J	**53**
Acrolein	5	5 UJ	5 UJ	NR	NR	NR	NR	NR	NR
Acrylonitrile	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NR
Benzene	**1**	**31.8 D**	**34.2 D**	**4.6**	**3.2**	**3.2**	1	**4.3 J**	**9**
Bromobenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Bromochloromethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Bromodichloromethane	50	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Bromoform	50	5 U	5 U	2 UJ	2 UJ	2 UJ	2 U	2 U	1 U
Bromomethane	5	5 UJ	5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 U	1 U
Carbon Disulfide	60	7.5 JD	8 JD	2.2 J	5 U	5 U	1.4 J	2.4 J	2.9
Carbon Tetrachloride	5	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Chlorobenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Chloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Chloroform	7	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Chloromethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Cis-1,2-Dichloroethylene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Cis-1,3-Dichloropropene	NS	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Cyclohexane	NS	5 U	5 U	NR	NR	NR	NR	NR	1 UJ
Cymene	5	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Dibromochloromethane	50	5 U	5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Dibromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NR
Dichlorodifluoromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U
Dichloroethylenes	NS	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Diethyl Ether (Ethyl Ether)	NS	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Ethylbenzene	**5**	**7.25 JD**	**8.25 JD**	1.2 J	0.85 J	0.79 J	2.5 U	1.1 J	1.9
Isopropylbenzene (Cumene)	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
M,P-Xylenes	**5**	**14 JD**	**15 JD**	1.2 J	0.7 J	2.5 U	2.5 U	1.1 J	1.7
Methyl Acetate	NS	5 U	5 U	NR	NR	NR	NR	NR	5 U
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	36 L
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	NS	5 U	5 U	NR	NR	NR	NR	NR	1 U
Methylene Chloride	5	25 U	25 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
N-Butylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
N-Propylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
O-Xylene (1,2-Dimethylbenzene)	**5**	**10.8 JD**	**11.8 JD**	1.1 J	2.5 U	2.5 U	2.5 U	0.97 J	1.6
Sec-Butylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Styrene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
T-Butylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Tert-Butyl Alcohol	NS	12.5 U	12.5 U	NR	NR	NR	NR	NR	NR
Tert-Butyl Methyl Ether	10	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Tetrachloroethylene (PCE)	5	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Toluene	**5**	**13 D**	**14.2 D**	1 J	2.5 U	0.8 J	2.5 U	0.93 J	1.9
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	NR	NR	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	NR
Trans-1,2-Dichloroethene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Trans-1,3-Dichloropropene	NS	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	1 U
Trans-1,4-Dichloro-2-Butene	5	NR	NR	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 U	NR
Trichloroethylene (TCE)	5	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Trichlorofluoromethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Vinyl Acetate	NS	NR	NR	5 U	5 U	5 U	5 U	5 UJ	NR
Vinyl Chloride	2	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	24.8 JD	26.8 JD	2.3 J	0.7 J	2.5 U	2.5 U	2.1 J	NR
Total Petroleum Hydrocarbons (TPH)	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
TPH - Diesel Range Organics (C10 - C28)	NS	NT	NT	401	213	304	115	303	NR
TPH - Oil Range Organics	NS	NT	NT	41.9	10.1 J	10.8	5.01	28.8	NR

Table 2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations Over Time
VOCs and TPH

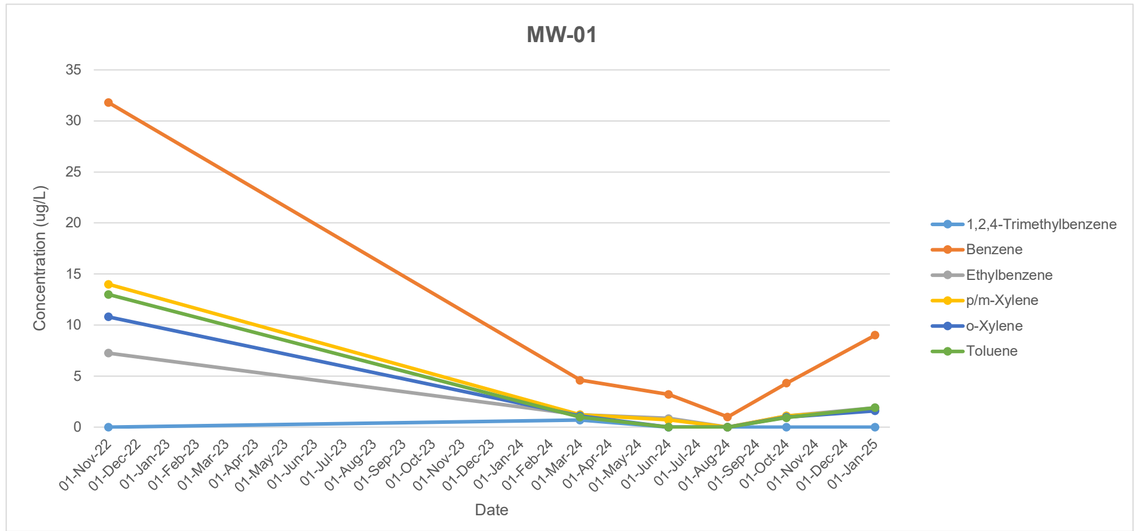


Table 2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations Over Time
VOCs and TPH

	AKRF Sample ID	MW-02_20221201	MW-02_20240304	MW-0X_20240304	MW-2_20240612	MW-02_20240816	MW-0X_20240816	MW-02_20241018	MW-0X_20241018	MW-02_20250122
	Laboratory Sample ID	22L0110-02	L2411621-02	L2411621-04	L2433259-01	L2446856-02	L2446856-04	L2460992-02	L2460992-05	460-319158-1
	Date Sampled	12/01/2022	3/04/2024	3/04/2024	6/12/2024	8/16/2024	8/16/2024	10/18/2024	10/18/2024	1/22/2025
	Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	Dilution Factor	1	1	1	1	1	1	1	1	1
Volatile Organic Compounds (VOCs)	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1,2-Tetrachloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,1,1-Trichloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,1,2,2-Tetrachloroethane	5	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	0.2 U	NR	NR	NR	NR	NR	NR	NR	1 U
1,1,2-Trichloroethane	1	0.2 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1 U
1,1-Dichloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,1-Dichloroethene	5	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
1,1-Dichloropropene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,2,3-Trichlorobenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,2,3-Trichloropropane	0.04	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,2,4,5-Tetramethylbenzene	5	NR	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NR
1,2,4-Trichlorobenzene	5	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,2,4-Trimethylbenzene	**5**	0.37 J	1.3 J	1.2 J	0.84 J	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,2-Dibromo-3-Chloropropane	0.04	NR	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	NR	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
1,2-Dichlorobenzene	3	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,2-Dichloroethane	0.6	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
1,2-Dichloropropane	1	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,3-Dichlorobenzene	3	NR	NR	NR	NR	NR	NR	2.5 U	2.5 U	1 U
1,3-Dichloropropane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,4-Dichlorobenzene	3	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,4-Diethyl Benzene	NS	NR	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NR
2,2-Dichloropropane	5	0.2 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
2-Chlorotoluene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
2-Hexanone	50	0.2 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
4-Chlorotoluene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
4-Ethyltoluene	NS	NR	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NR
Acetone	50	1 UJ	5 U	5 U	5 U	5 U	5 U	1.7 J	2.6 J	5 U
Acrolein	5	0.2 UJ	NR	NR	NR	NR	NR	NR	NR	NR
Acrylonitrile	5	0.2 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NR
Benzene	**1**	0.93	**4.3**	**4**	**3.2**	**2**	**2**	**2.3 J**	**1.6 J**	**3.3**
Bromobenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Bromochloromethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Bromodichloromethane	50	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Bromoform	50	0.2 U	2 UJ	2 UJ	2 UJ	2 U	2 U	2 U	2 U	1 U
Bromomethane	5	0.2 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 U	2.5 U	1 U
Carbon Disulfide	60	0.29 J	1.5 J	1.2 J	5 U	5 U	5 U	5 U	5 U	1 U
Carbon Tetrachloride	5	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Chlorobenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Chloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Chloroform	7	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Chloromethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Cis-1,2-Dichloroethylene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Cis-1,3-Dichloropropene	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Cyclohexane	NS	0.2 U	NR	NR	NR	NR	NR	NR	NR	1 U
Cymene	5	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Dibromochloromethane	50	0.2 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Dibromomethane	5	0.2 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NR
Dichlorodifluoromethane	5	1.16	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U
Dichloroethylenes	NS	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Diethyl Ether (Ethyl Ether)	NS	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Ethylbenzene	**5**	0.37 J	1.2 J	1.1 J	0.8 J	2.5 U	2.5 U	2.5 U	2.5 U	0.73 J
Isopropylbenzene (Cumene)	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.35 J
M,P-Xylenes	**5**	0.55 J	1.1 J	1 J	0.76 J	2.5 U	2.5 U	2.5 U	2.5 U	0.7 J
Methyl Acetate	NS	0.2 U	NR	NR	NR	NR	NR	NR	NR	5 U
Methyl Ethyl Ketone (2-Butanone)	50	0.29 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	0.2 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	NS	0.2 U	NR	NR	NR	NR	NR	NR	NR	1 U
Methylene Chloride	5	1 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
N-Butylbenzene	5	0.2 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
N-Propylbenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
O-Xylene (1,2-Dimethylbenzene)	**5**	0.49 J	1.3 J	1.2 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.59 J
Sec-Butylbenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Styrene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
T-Butylbenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Tert-Butyl Alcohol	NS	0.5 U	NR	NR	NR	NR	NR	NR	NR	NR
Tert-Butyl Methyl Ether	10	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Tetrachloroethylene (PCE)	5	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Toluene	**5**	0.84	0.89 J	0.82 J	0.85 J	2.5 U	2.5 U	0.77 J	2.5 UJ	0.95 J
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	NR	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	NR
Trans-1,2-Dichloroethene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Trans-1,3-Dichloropropene	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	1 U
Trans-1,4-Dichloro-2-Butene	5	NR	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Trichloroethylene (TCE)	5	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Trichlorofluoromethane	5	0.41 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Vinyl Acetate	NS	NR	5 U	5 U	5 U	5 U	5 U	5 UJ	5 UJ	NR
Vinyl Chloride	2	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	1.04 J	2.4 J	2.2 J	0.76 J	2.5 U	2.5 U	2.5 U	2.5 U	NR
Total Petroleum Hydrocarbons (TPH)	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
TPH - Diesel Range Organics (C10 - C28)	NS	NT	429	469	288	303	237	427	294	NR
TPH - Oil Range Organics	NS	NT	26.6	23.7	18.5	27.7	7.41 J	72.4	42.9	NR

Table 2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations Over Time
VOCs and TPH

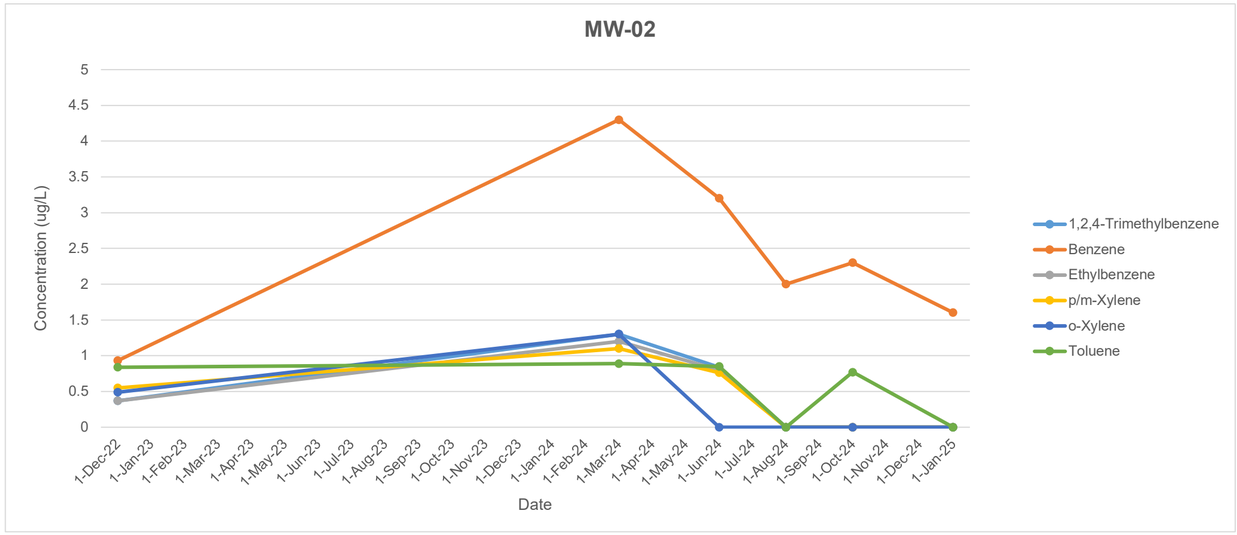
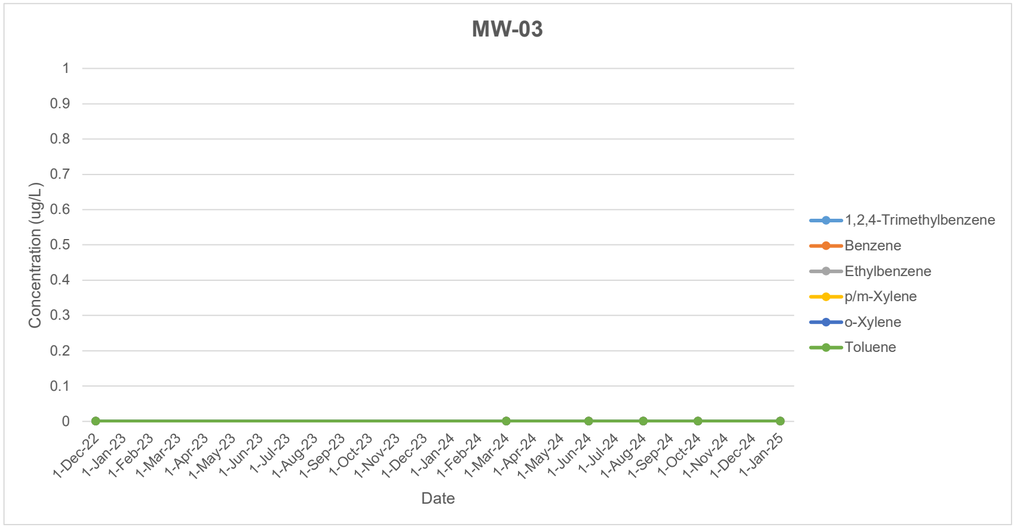


Table 2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations Over Time
VOCs and TPH

AKRF Sample ID		MW-0X_20250122	MW-03_20221201	MW-03_20240304	MW-3_20240612	MW-03_20240816	MW-03_20241018	MW-03_20250127
Laboratory Sample ID		460-319158-3	22L0110-01	L2411621-03	L2433259-06	L2446856-03	L2460992-01	460-319369-1
Date Sampled		1/22/2025	12/01/2022	3/04/2024	6/12/2024	8/16/2024	10/18/2024	1/27/2025
Unit		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	1	1	1	1	1	1
Volatile Organic Compounds (VOCs)	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1,2-Tetrachloroethane	5	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,1,1-Trichloroethane	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	1 U	0.2 U	NR	NR	NR	NR	1 U
1,1,2-Trichloroethane	1	1 U	0.2 U	1.5 U	1.5 U	1.5 U	1.5 U	1 U
1,1-Dichloroethane	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,1-Dichloroethene	5	1 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
1,1-Dichloropropene	5	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,2,3-Trichlorobenzene	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,2,3-Trichloropropane	0.04	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,2,4,5-Tetramethylbenzene	5	NR	NR	2 U	2 U	2 U	2 U	NR
1,2,4-Trichlorobenzene	5	1 U	NR	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,2,4-Trimethylbenzene	**5**	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,2-Dibromo-3-Chloropropane	0.04	1 U	NR	2.5 UJ	2.5 U	2.5 U	2.5 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1 U	NR	2 U	2 U	2 U	2 U	1 U
1,2-Dichlorobenzene	3	1 U	NR	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,2-Dichloroethane	0.6	1 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
1,2-Dichloropropane	1	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,3-Dichlorobenzene	3	1 U	NR	NR	NR	NR	2.5 U	1 U
1,3-Dichloropropane	5	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
1,4-Dichlorobenzene	3	1 U	NR	2.5 U	2.5 U	2.5 U	2.5 U	1 U
1,4-Diethyl Benzene	NS	NR	NR	2 U	2 U	2 U	2 U	NR
2,2-Dichloropropane	5	NR	0.2 UJ	2.5 U	2.5 U	2.5 U	2.5 U	NR
2-Chlorotoluene	5	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
2-Hexanone	50	5 UJ	0.2 U	5 U	5 U	5 U	5 U	5 UJ
4-Chlorotoluene	5	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
4-Ethyltoluene	NS	NR	NR	2 U	2 U	2 U	2 U	NR
Acetone	50	5 U	1 UJ	5 U	10	5 U	1.8 J	**340**
Acrolein	5	NR	0.2 UJ	NR	NR	NR	NR	NR
Acrylonitrile	5	NR	0.2 U	5 U	5 U	5 U	5 U	NR
Benzene	**1**	**3.3**	0.2 U	0.5 U	0.5 U	0.5 U	0.5 UJ	1 U
Bromobenzene	5	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Bromochloromethane	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Bromodichloromethane	50	1 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Bromoform	50	1 U	0.2 U	2 UJ	2 UJ	2 U	2 U	1 U
Bromomethane	5	1 U	0.2 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 U	1 U
Carbon Disulfide	60	1 U	0.2 U	5 U	5 U	5 U	5 U	1 U
Carbon Tetrachloride	5	1 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Chlorobenzene	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Chloroethane	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Chloroform	7	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Chloromethane	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Cis-1,3-Dichloropropene	NS	1 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Cyclohexane	NS	1 U	0.2 U	NR	NR	NR	NR	1 U
Cymene	5	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	NR
Dibromochloromethane	50	1 U	0.2 U	0.5 UJ	0.5 U	0.5 U	0.5 U	1 U
Dibromomethane	5	NR	0.2 U	5 U	5 U	5 U	5 U	NR
Dichlorodifluoromethane	5	1 U	0.2 U	5 U	5 U	5 U	5 U	1 U
Dichloroethylenes	NS	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	NR
Diethyl Ether (Ethyl Ether)	NS	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	NR
Ethylbenzene	**5**	0.77 J	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Isopropylbenzene (Cumene)	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
M,P-Xylenes	**5**	0.72 J	0.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Methyl Acetate	NS	5 U	0.2 U	NR	NR	NR	NR	5 U
Methyl Ethyl Ketone (2-Butanone)	50	5 U	0.2 U	5 U	5 U	5 U	5 U	35
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	0.2 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	NS	1 U	0.2 U	NR	NR	NR	NR	1 U
Methylene Chloride	5	1 U	1 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
N-Butylbenzene	5	NR	0.2 UJ	2.5 U	2.5 U	2.5 U	2.5 U	NR
N-Propylbenzene	5	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
O-Xylene (1,2-Dimethylbenzene)	**5**	0.61 J	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Sec-Butylbenzene	5	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Styrene	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
T-Butylbenzene	5	NR	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Tert-Butyl Alcohol	NS	NR	0.98 U	NR	NR	NR	NR	NR
Tert-Butyl Methyl Ether	10	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Tetrachloroethylene (PCE)	5	1 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Toluene	**5**	0.9 J	0.2 U	2.5 U	2.5 U	2.5 U	2.5 UJ	1 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	NR	NR	0.5 U	0.5 U	0.5 UJ	0.5 U	NR
Trans-1,2-Dichloroethene	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Trans-1,3-Dichloropropene	NS	1 U	0.2 U	0.5 U	0.5 U	0.5 UJ	0.5 U	1 U
Trans-1,4-Dichloro-2-Butene	5	NR	NR	2.5 UJ	2.5 U	2.5 U	2.5 U	NR
Trichloroethylene (TCE)	5	1 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Trichlorofluoromethane	5	1 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U
Vinyl Acetate	NS	NR	NR	5 U	5 U	5 U	5 UJ	NR
Vinyl Chloride	2	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	NR	0.6 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Total Petroleum Hydrocarbons (TPH)	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
TPH - Diesel Range Organics (C10 - C28)	NS	NR	75.8	116	288	70.7	115	520
TPH - Oil Range Organics	NS	NR	2.8 U	23.5	18.5	2.66 U	22.6	100 U

Table 2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations Over Time
VOCs and TPH



Tables 1-3
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Sampling
Notes

DEFINITIONS

D	:	Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.
F	:	Field parameter with a holding time of 15 minutes
H	:	Sample result is estimated and biased high.
J	:	The concentration given is an estimated value.
L	:	Sample result is estimated and biased low.
ND	:	The standard is a non-detectable concentration by the approved analytical method.
NR	:	Not reported.
NS	:	No standard.
NT	:	Not tested.
U	:	The analyte was not detected at the indicated concentration.
UJ	:	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
µg/L	:	micrograms per liter
µg/m^3	:	micrograms per cubic meter
ppt	:	parts per trillion

STANDARDS

NYSDEC Class GA AWQSGVs	:	New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs).

Exceedances of NYSDEC Class GA AWQSGVs are highlighted in bold font.

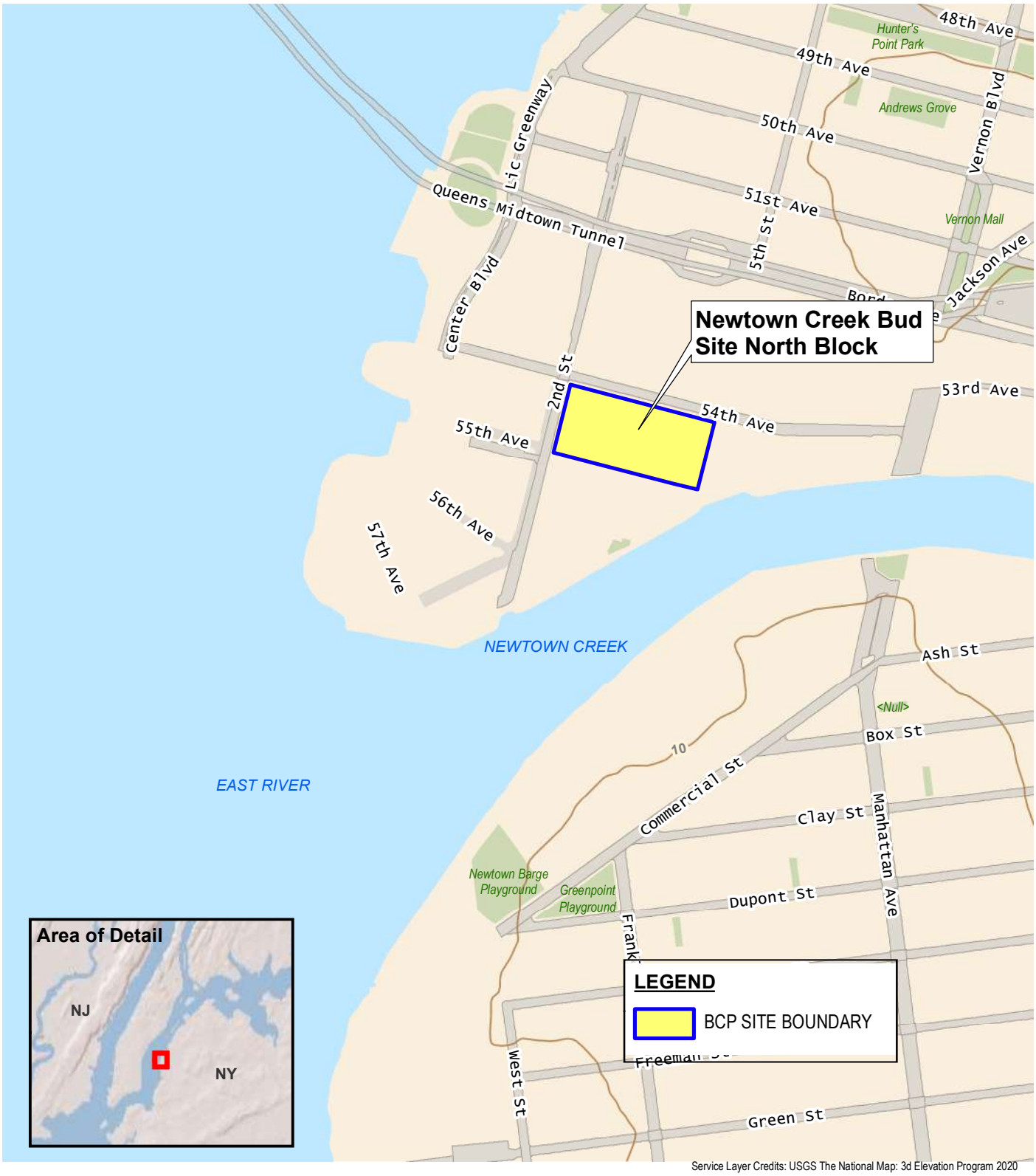
DAR-1 AGC/SGC	:	NYSDEC Division of Air Resources (DAR) Annual Guideline Concentrations (AGC) and Short-Term Guideline Concentrations (SGC) published in Air Guide-1 (DAR-1) Oct 18, 2010.

Exceedances of DAR-1 AGCs are highlighted in bold font.
Exceedances of DAR-1 SGCs are highlighted in gray shading.

DUPLICATES

DUP-01_20221128 is a blind duplicate of sample MW-01_20221128
MW-0X_20240304 is a blind duplicate of sample MW-02_20240304
MW-X_20240612 is a blind duplicate of sample MW-1_20240612
MW-0X_20240816 is a duplicate of sample MW-03_20240816
MW-0X_20241018 is a blind duplicate of sample MW-02_20241018
MW-0X_20250122 is a blind duplicate of sample MW-02_20250122

FIGURES



AKRF
440 Park Avenue South, New York, NY 10016

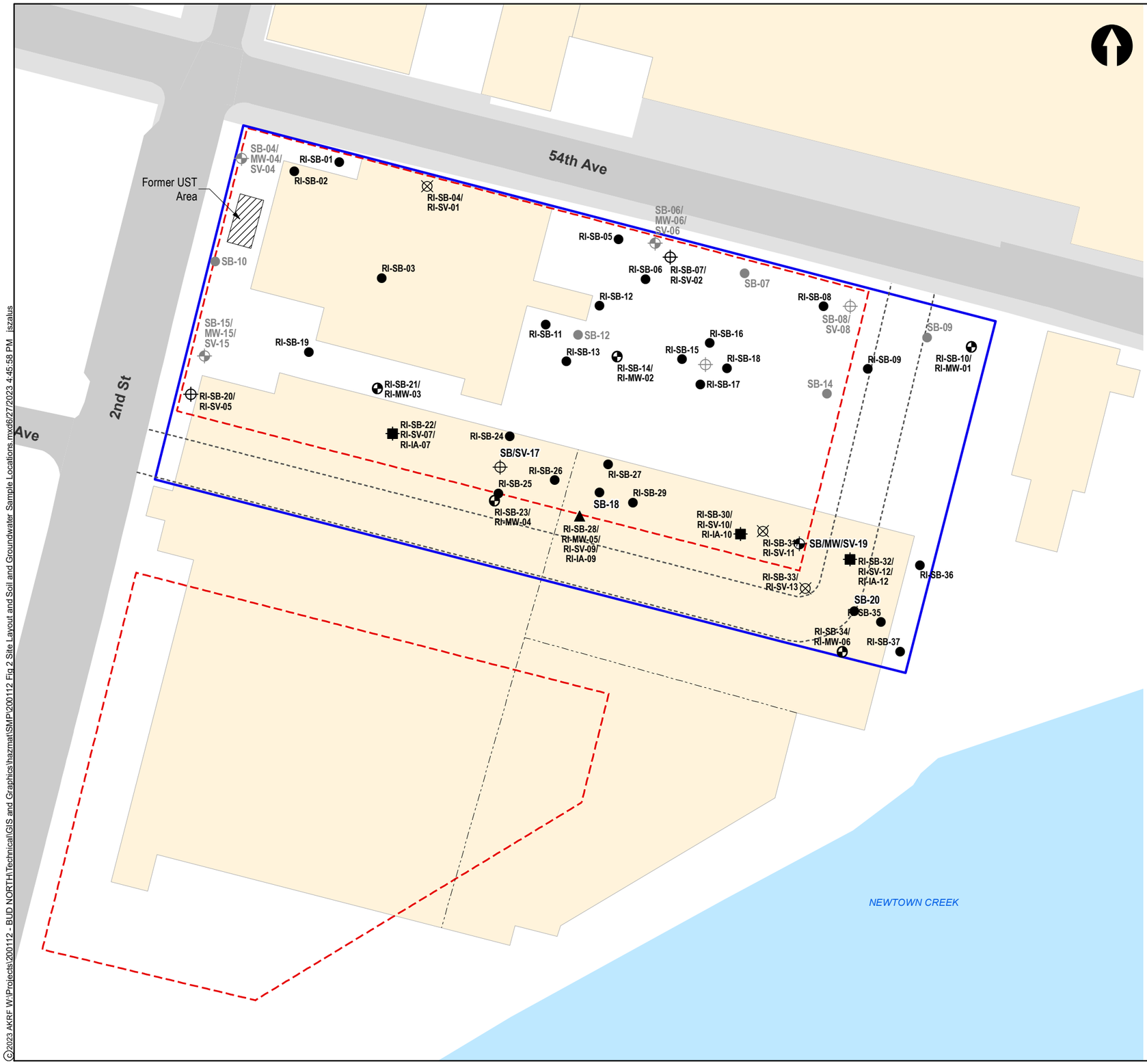
Newtown Creek Bud Site - North Block
2-10 54th Avenue - Long Island City, New York

BCP SITE LOCATION

DATE
11/29/2021

PROJECT NO.
200112

FIGURE
1



LEGEND

- BCP SITE AND ENVIRONMENTAL EASEMENT BOUNDARY
- NEW BUILDING FOOTPRINT
- FORMER BUILDING
- PREVIOUS SOIL BORING LOCATION
- PREVIOUS SOIL BORING/GROUNDWATER/SOIL VAPOR POINT LOCATION
- PREVIOUS SOIL BORING/SOIL VAPOR POINT LOCATION
- RI SOIL BORING
- RI SOIL BORING/MONITORING WELL
- RI SOIL BORING/MONITORING WELL/SOIL VAPOR POINT/INDOOR AIR SAMPLE LOCATION
- RI SOIL BORING/SUB-SLAB LOCATION
- RI SOIL BORING/SOIL VAPOR POINT
- RI SOIL BORING/SOIL VAPOR POINT/INDOOR

UST UNDERGROUND STORAGE TANK

0 25 50 75 100 125

SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

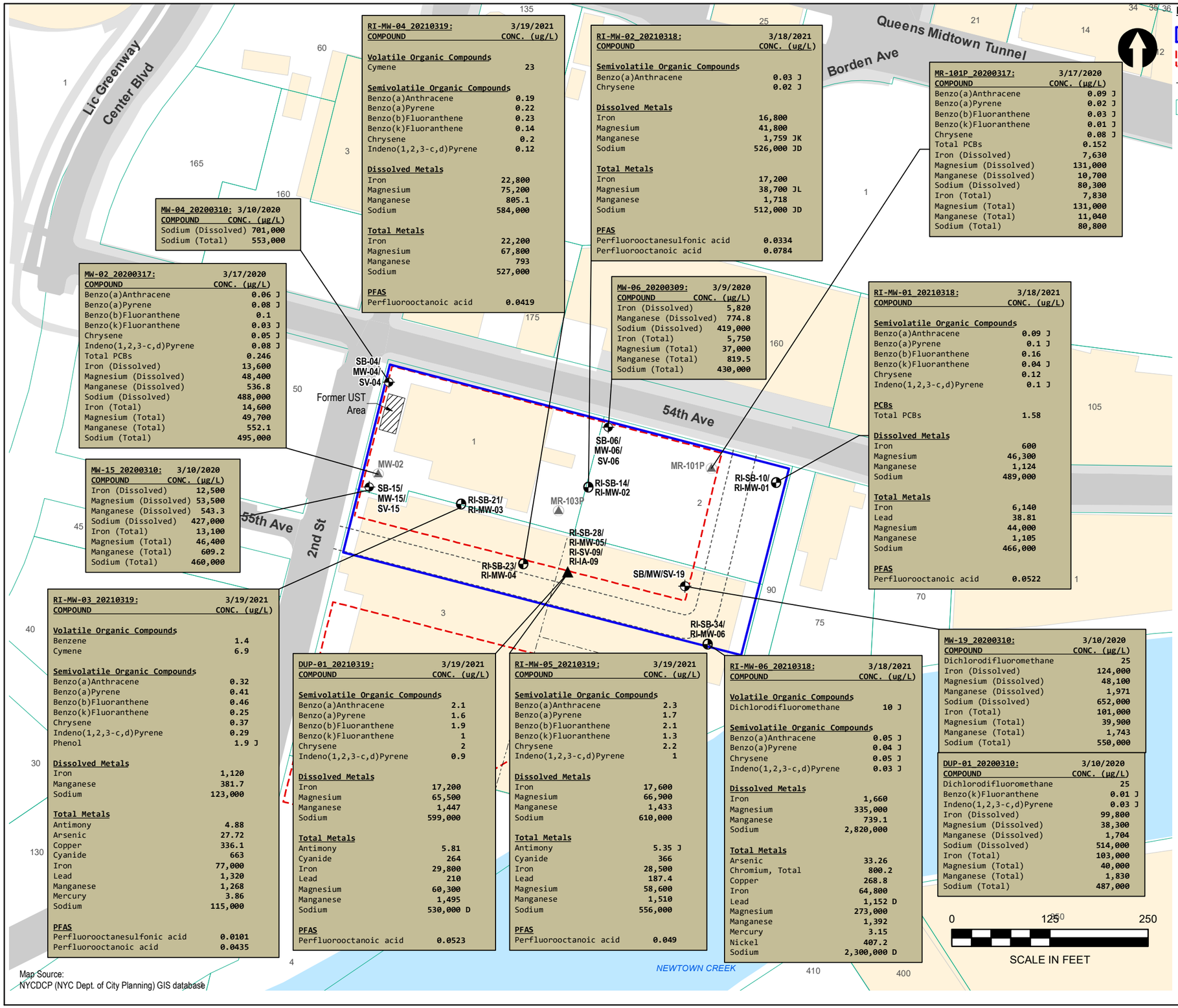
Newtown Creek Bud Site - North Block
2-21 Malt Drive - Long Island City, New York

SITE LAYOUT AND SOIL AND GROUNDWATER SAMPLE LOCATIONS

DATE
6/27/2023

PROJECT NO.
200112

FIGURE
2



RI-MW-04 20210319: 3/19/2021

COMPOUND	CONC. (ug/L)
Volatile Organic Compounds	
Cymene	23
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.19
Benzo(a)Pyrene	0.22
Benzo(b)Fluoranthene	0.23
Benzo(k)Fluoranthene	0.14
Chrysene	0.2
Indeno(1,2,3-c,d)Pyrene	0.12
Dissolved Metals	
Iron	22,800
Magnesium	75,200
Manganese	805.1
Sodium	584,000
Total Metals	
Iron	22,200
Magnesium	67,800
Manganese	793
Sodium	527,000
PFAS	
Perfluorooctanoic acid	0.0419

RI-MW-02 20210318: 3/18/2021

COMPOUND	CONC. (ug/L)
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.03 J
Chrysene	0.02 J
Dissolved Metals	
Iron	16,800
Magnesium	41,800
Manganese	1,759 JK
Sodium	526,000 JD
Total Metals	
Iron	17,200
Magnesium	38,700 JL
Manganese	1,718
Sodium	512,000 JD
PFAS	
Perfluorooctanesulfonic acid	0.0334
Perfluorooctanoic acid	0.0784

MR-101P 20200317: 3/17/2020

COMPOUND	CONC. (ug/L)
Benzo(a)Anthracene	0.09 J
Benzo(a)Pyrene	0.02 J
Benzo(b)Fluoranthene	0.03 J
Benzo(k)Fluoranthene	0.01 J
Chrysene	0.08 J
Total PCBs	0.152
Iron (Dissolved)	7,630
Magnesium (Dissolved)	131,000
Manganese (Dissolved)	10,700
Sodium (Dissolved)	80,300
Iron (Total)	7,830
Magnesium (Total)	131,000
Manganese (Total)	11,040
Sodium (Total)	80,800

MW-04 20200310: 3/10/2020

COMPOUND	CONC. (µg/L)
Sodium (Dissolved)	701,000
Sodium (Total)	553,000

MW-06 20200309: 3/9/2020

COMPOUND	CONC. (µg/L)
Iron (Dissolved)	5,820
Manganese (Dissolved)	774.8
Sodium (Dissolved)	419,000
Iron (Total)	5,750
Magnesium (Total)	37,000
Manganese (Total)	819.5
Sodium (Total)	430,000

RI-MW-01 20210318: 3/18/2021

COMPOUND	CONC. (ug/L)
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.09 J
Benzo(a)Pyrene	0.1 J
Benzo(b)Fluoranthene	0.16
Benzo(k)Fluoranthene	0.04 J
Chrysene	0.12
Indeno(1,2,3-c,d)Pyrene	0.1 J
PCBs	
Total PCBs	1.58
Dissolved Metals	
Iron	600
Magnesium	46,300
Manganese	1,124
Sodium	489,000
Total Metals	
Iron	6,140
Lead	38.81
Magnesium	44,000
Manganese	1,105
Sodium	466,000
PFAS	
Perfluorooctanoic acid	0.0522

MW-02 20200317: 3/17/2020

COMPOUND	CONC. (µg/L)
Benzo(a)Anthracene	0.06 J
Benzo(a)Pyrene	0.08 J
Benzo(b)Fluoranthene	0.1
Benzo(k)Fluoranthene	0.03 J
Chrysene	0.05 J
Indeno(1,2,3-c,d)Pyrene	0.08 J
Total PCBs	0.246
Iron (Dissolved)	13,600
Magnesium (Dissolved)	48,400
Manganese (Dissolved)	536.8
Sodium (Dissolved)	488,000
Iron (Total)	14,600
Magnesium (Total)	49,700
Manganese (Total)	552.1
Sodium (Total)	495,000

MW-15 20200310: 3/10/2020

COMPOUND	CONC. (µg/L)
Iron (Dissolved)	12,500
Magnesium (Dissolved)	53,500
Manganese (Dissolved)	543.3
Sodium (Dissolved)	427,000
Iron (Total)	13,100
Magnesium (Total)	46,400
Manganese (Total)	609.2
Sodium (Total)	460,000

RI-MW-03 20210319: 3/19/2021

COMPOUND	CONC. (ug/L)
Volatile Organic Compounds	
Benzene	1.4
Cymene	6.9
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.32
Benzo(a)Pyrene	0.41
Benzo(b)Fluoranthene	0.46
Benzo(k)Fluoranthene	0.25
Chrysene	0.37
Indeno(1,2,3-c,d)Pyrene	0.29
Phenol	1.9 J
Dissolved Metals	
Iron	1,120
Manganese	381.7
Sodium	123,000
Total Metals	
Antimony	4.88
Arsenic	27.72
Copper	336.1
Cyanide	663
Iron	77,000
Lead	1,320
Manganese	1,268
Mercury	3.86
Sodium	115,000
PFAS	
Perfluorooctanesulfonic acid	0.0101
Perfluorooctanoic acid	0.0435

DUP-01 20210319: 3/19/2021

COMPOUND	CONC. (ug/L)
Semivolatile Organic Compounds	
Benzo(a)Anthracene	2.1
Benzo(a)Pyrene	1.6
Benzo(b)Fluoranthene	1.9
Benzo(k)Fluoranthene	1
Chrysene	2
Indeno(1,2,3-c,d)Pyrene	0.9
Dissolved Metals	
Iron	17,200
Magnesium	65,500
Manganese	1,447
Sodium	599,000
Total Metals	
Antimony	5.81
Cyanide	264
Iron	29,800
Lead	210
Magnesium	60,300
Manganese	1,495
Sodium	530,000 D
PFAS	
Perfluorooctanoic acid	0.0523

RI-MW-05 20210319: 3/19/2021

COMPOUND	CONC. (ug/L)
Semivolatile Organic Compounds	
Benzo(a)Anthracene	2.3
Benzo(a)Pyrene	1.7
Benzo(b)Fluoranthene	2.1
Benzo(k)Fluoranthene	1.3
Chrysene	2.2
Indeno(1,2,3-c,d)Pyrene	1
Dissolved Metals	
Iron	17,600
Magnesium	66,900
Manganese	1,433
Sodium	610,000
Total Metals	
Antimony	5.35 J
Cyanide	366
Iron	28,500
Lead	187.4
Magnesium	58,600
Manganese	1,510
Sodium	556,000
PFAS	
Perfluorooctanoic acid	0.049

RI-MW-06 20210318: 3/18/2021

COMPOUND	CONC. (ug/L)
Volatile Organic Compounds	
Dichlorodifluoromethane	10 J
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.05 J
Benzo(a)Pyrene	0.04 J
Chrysene	0.05 J
Indeno(1,2,3-c,d)Pyrene	0.03 J
Dissolved Metals	
Iron	1,660
Magnesium	335,000
Manganese	739.1
Sodium	2,820,000
Total Metals	
Arsenic	33.26
Chromium, Total	800.2
Copper	268.8
Iron	64,800
Lead	1,152 D
Magnesium	273,000
Manganese	1,392
Mercury	3.15
Nickel	407.2
Sodium	2,300,000 D

MW-19 20200310: 3/10/2020

COMPOUND	CONC. (µg/L)
Dichlorodifluoromethane	25
Iron (Dissolved)	124,000
Magnesium (Dissolved)	48,100
Manganese (Dissolved)	1,971
Sodium (Dissolved)	652,000
Iron (Total)	101,000
Magnesium (Total)	39,900
Manganese (Total)	1,743
Sodium (Total)	550,000

DUP-01 20200310: 3/10/2020

COMPOUND	CONC. (µg/L)
Dichlorodifluoromethane	25
Benzo(k)Fluoranthene	0.01 J
Indeno(1,2,3-c,d)Pyrene	0.03 J
Iron (Dissolved)	99,800
Magnesium (Dissolved)	38,300
Manganese (Dissolved)	1,704
Sodium (Dissolved)	514,000
Iron (Total)	103,000
Magnesium (Total)	40,000
Manganese (Total)	1,830
Sodium (Total)	487,000

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

LEGEND

- BCP SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- APPROXIMATE LOCATION OF PROPOSED ROAD
- LOT BOUNDARY
- EXISTING MONITORING WELL LOCATION
- SOIL BORING/GROUNDWATER/SOIL VAPOR WITHIN PLANNED BUILDING FOOTPRINT
- RI SOIL BORING/MONITORING WELL
- RI SOIL BORING/MONITORING WELL/SOIL VAPOR POINT/INDOOR AIR SAMPLE LOCATION

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs) and/or Screening Levels:

New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):

µg/L: micrograms per Liter = parts per billion (ppb)

PFOA: Perfluorooctanoic acid
PFAS: Per- and polyfluoroalkyl substances

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The concentration given is an estimated value.
D: Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.
K: Reported concentration value is proportional to dilution factor and may be exaggerated
L: Sample result is estimated and biased low.

DUP-01_20210319 is a blind duplicate of sample RI-MW-05_20210319

	NYSDEC AWQSGVs ug/l	NYSDEC PFAS Screening Levels ug/l
Volatile Organic Compounds		
Benzene	1	
Cymene	5	
Dichlorodifluoromethane	5	
Semivolatile Organic Compounds		
Benzo(a)Anthracene	0.002	
Benzo(a)Pyrene	0	
Benzo(b)Fluoranthene	0.002	
Benzo(k)Fluoranthene	0.002	
Chrysene	0.002	
Indeno(1,2,3-c,d)Pyrene	0.002	
Phenol	1	
PCBs		
Total PCBs	0.09	
Metals		
Antimony	3	
Arsenic	25	
Chromium, Total	50	
Copper	200	
Cyanide	200	
Iron	300	
Lead	25	
Magnesium	35,000	
Manganese	300	
Mercury	0.7	
Nickel	100	
Sodium	20,000	
PFAS		
Perfluorooctanesulfonic acid		0.01
Perfluorooctanoic acid		0.01

Sample ID — Sample Date

MW-04 20200310: 3/10/2020

COMPOUND	CONC. (µg/L)
Sodium (Dissolved)	701,000
Sodium (Total)	553,000

Analyte/Compound — Concentration

AKRF
440 Park Avenue South, New York, NY 10016

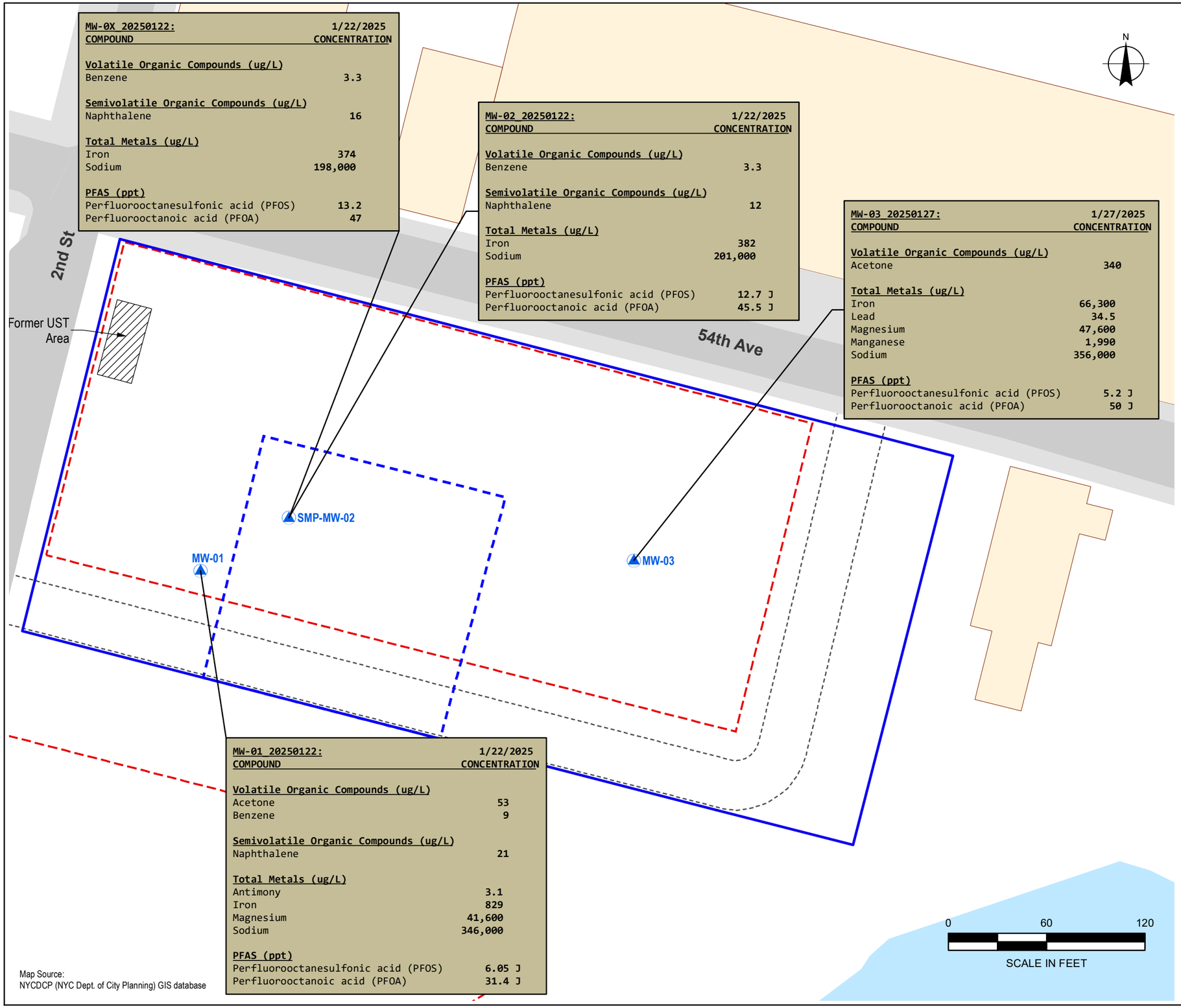
Newtown Creek Bud Site - North Block
2-10 54th Avenue - Long Island City, New York

RI Groundwater Sample Concentrations Above AWQSGVs and Screening Levels

DATE
4/9/2024

PROJECT NO.
200112

FIGURE
3



MW-0X_20250122: COMPOUND	1/22/2025 CONCENTRATION
Volatile Organic Compounds (ug/L)	
Benzene	3.3
Semivolatile Organic Compounds (ug/L)	
Naphthalene	16
Total Metals (ug/L)	
Iron	374
Sodium	198,000
PFAS (ppt)	
Perfluorooctanesulfonic acid (PFOS)	13.2
Perfluorooctanoic acid (PFOA)	47

MW-02_20250122: COMPOUND	1/22/2025 CONCENTRATION
Volatile Organic Compounds (ug/L)	
Benzene	3.3
Semivolatile Organic Compounds (ug/L)	
Naphthalene	12
Total Metals (ug/L)	
Iron	382
Sodium	201,000
PFAS (ppt)	
Perfluorooctanesulfonic acid (PFOS)	12.7 J
Perfluorooctanoic acid (PFOA)	45.5 J

MW-03_20250127: COMPOUND	1/27/2025 CONCENTRATION
Volatile Organic Compounds (ug/L)	
Acetone	340
Total Metals (ug/L)	
Iron	66,300
Lead	34.5
Magnesium	47,600
Manganese	1,990
Sodium	356,000
PFAS (ppt)	
Perfluorooctanesulfonic acid (PFOS)	5.2 J
Perfluorooctanoic acid (PFOA)	50 J

MW-01_20250122: COMPOUND	1/22/2025 CONCENTRATION
Volatile Organic Compounds (ug/L)	
Acetone	53
Benzene	9
Semivolatile Organic Compounds (ug/L)	
Naphthalene	21
Total Metals (ug/L)	
Antimony	3.1
Iron	829
Magnesium	41,600
Sodium	346,000
PFAS (ppt)	
Perfluorooctanesulfonic acid (PFOS)	6.05 J
Perfluorooctanoic acid (PFOA)	31.4 J

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

LEGEND

- BCP SITE BOUNDARY
- EXISTING BUILDING
- NEW BUILDING FOOTPRINT
- APPROXIMATE LOCATION OF NEW ROAD
- GROUNDWATER MONITORING WELL LOCATION

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs)

New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1): April 2023

µg/L: micrograms per Liter = parts per billion (ppb)
ppt parts per trillion(ppt)

PFOA: Perfluorooctanoic acid
PFAS: Per- and polyfluoroalkyl substances

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The concentration given is an estimated value.

MW-0X_20250122 is a blind duplicate of sample MW-02_20250122

	NYSDEC AWQSGVs ug/l	ppt
Volatile Organic Compounds		
Benzene	1	
Acetone	50	
Semivolatile Organic Compounds		
Naphthalene	10	
Metals		
Antimony	3	
Iron	300	
Lead	25	
Magnesium	35,000	
Manganese	300	
Sodium	20,000	
PFAS		
Perfluorooctanesulfonic acid (PFOS)		2.7
Perfluorooctanoic acid (PFOA)		6.7

Sample ID — Sample Date

MW-04_20200310: 3/10/2020
COMPOUND — CONC. (ug/L)
Sodium (Dissolved) 701,000
Sodium (Total) 553,000

Analyte/Compound — Concentration

AKRF
440 Park Avenue South, New York, NY 10016

Newtown Creek Bud Site - North Block

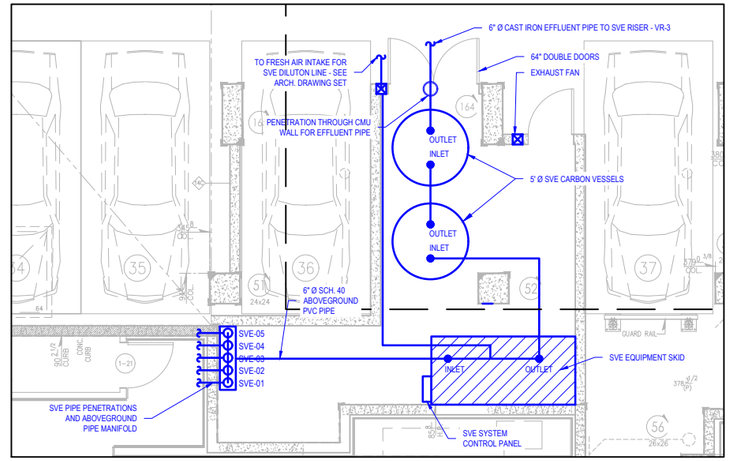
2-21 Malt Drive - Long Island City, New York

Post-Remediation Groundwater Sample Analytical Results Above AWQSGVs

DATE
3/12/2025

PROJECT NO.
200112

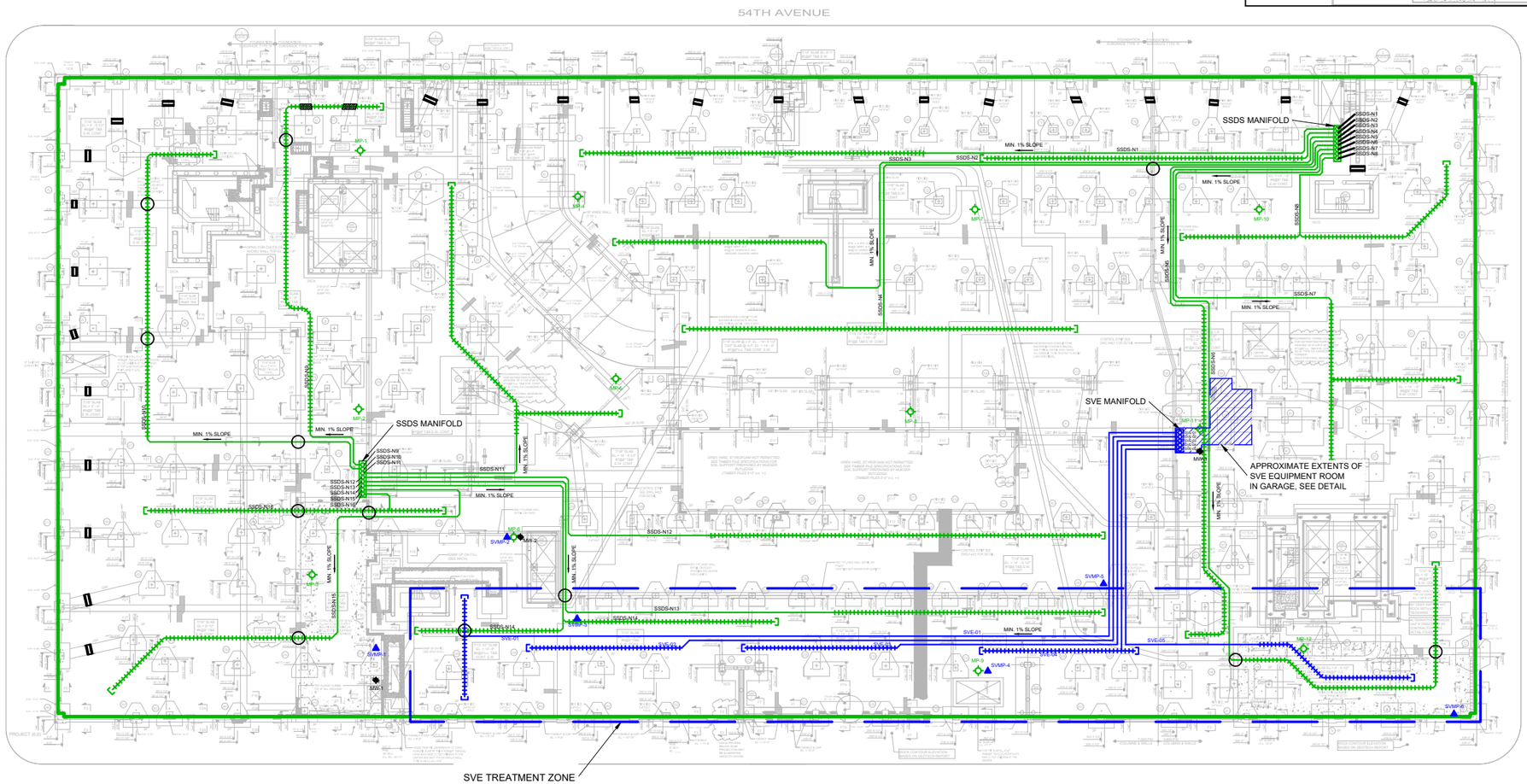
FIGURE
4



SVE EQUIPMENT ROOM LAYOUT

0 5 10 20

SCALE IN FEET



LEGEND

- SSDS TREATMENT ZONE (EXTENT OF WATERPROOFING/ VAPOR BARRIER/GAS-PERMEABLE AGGREGATE
- SVE TREATMENT ZONE
- SSDS COMMUNICATION SLEEVE THROUGH GRADE BEAM
- SSDS PIPE SLEEVE THROUGH GRADE BEAM
- SVE 4" Ø SLOTTED SCHEDULE 40 PVC PIPE WITH PVC END CAP
- SSDS 4" Ø SLOTTED SCHEDULE 40 PVC PIPE WITH PVC END CAP
- SSDS/SVE 4" Ø SOLID SCHEDULE 40 PVC PIPE
- SSDS PIPE ELEVATION CHANGE
- SSDS/SVE PIPING MANIFOLD
- SVE-01/SSDS-N8 SSDS/SVE 4" Ø RISER SLAB PENETRATION
- MP-1 SSDS VACUUM MONITORING POINT
- SVMP-1 SVE VACUUM MONITORING POINT
- MW-1 POST-REMEDIAL GROUNDWATER MONITORING WELL

0 20 40 80

SCALE IN FEET

NOTE: PIPE SPACING NOT TO SCALE

AKRF

440 Park Avenue South, New York, NY 10016

Newtown Creek Bud Site - North Block

2-21 Malt Drive - Long Island City, New York

SVE, SSDS AND VAPOR BARRIER PLAN

DATE
7/6/2023

PROJECT NO.
200112

FIGURE
5

ATTACMENT A
GROUNDWATER SAMPLING LOGS

akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

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Groundwater Monitoring Well Sampling Log

Project Name:	Bed North	**Client:**	TF Cornerstone	**Well ID:**	MW-1
Project Location:	2-21 Malt Drive LIC	**Sampled By:**	MB/IL		
Project Number:	20112	**Sampling Date:**	1-22-25		
Headspace PID:	0.2	**Sampling Time:**	1335		
Total Well Depth:	16.93 ft. below top of casing	**Water Column:**	0 feet	*= 0.041 * WC for 1" wells	
Depth to Water:	9.77 ft. below top of casing	**Well Volume*:**	0 gallons	*= 0.163 * WC for 2" wells	
Product Thickness:	NA ft. below top of casing	**Volume Purged:**	gallons	*= 0.653 * WC for 4" wells	
Depth to Top of Screen:	ft. below top of casing	**Well Diameter:**	2 inches	The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.	
Depth to Bottom of Screen:	ft. below top of casing	**Purging Device:**	Bladder pump		
Approximate Pump Intake:	14.00 ft. below top of casing				

Time	Depth to Water (ft.)	Purge Rate (ml/min)	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1250	10.36	150	17.92	1.99	7.68	6.16	-201	111	-MS/MSD taken
1255	10.36	150	16.70	3.01	12.89	6.45	-279	87.6	
1300	10.33	150	16.60	3.01	12.75	6.43	-303	69.6	-sulfur odor
1305	10.60	150	16.66	3.10	12.53	6.37	-319	44.8	
1310	10.60	150	16.64	3.21	12.27	6.42	-325	35.4	
1315	11.11	150	16.61	3.28	11.85	6.42	-332	34.9	
1320	12.35	150	16.62	3.36	11.75	6.42	-337	33.4	
1325	12.30	150	16.64	3.39	11.81	6.42	-341	32.5	✓
1330	12.55	150	16.65	3.42	11.63	6.43	-342	32.5	✓
	Sampling								
1335	12.54	150	16.64	3.44	11.61	6.42	-342	32.0	
Stabilization Criteria:				+/- 3% mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	

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New York, NY 10016

Groundwater Monitoring Well Sampling Log

Page X of X

Project Name:	Bud North	**Client:**	TF Cornerstone	**Well ID:**	MW-2
Project Location:	2-21 Malt Drive LIC	**Sampled By:**	MB/IL		
Project Number:	200112	**Sampling Date:**	1-22-25		
Headspace PID:	0	**Sampling Time:**	1033		
Total Well Depth:	25.32 ft. below top of casing	**Water Column:**	0 feet	*= 0.041 * WC for 1" wells	
Depth to Water:	14.72 ft. below top of casing	**Well Volume*:**	0 gallons	*= 0.163 * WC for 2" wells	
Product Thickness:	— ft. below top of casing	**Volume Purged:**	gallons	*= 0.653 * WC for 4" wells	
Depth to Top of Screen:	ft. below top of casing	**Well Diameter:**	2 ~~4~~ inches		
Depth to Bottom of Screen:	ft. below top of casing	**Purging Device:**	Bladder pump	The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.	
Approximate Pump Intake:	23.25 ft. below top of casing				

Time	Depth to Water (ft.)	Purge Rate (ml/min)	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
0945	14.72	150	9.56	3.63	24.11	6.85	-285	183	
0950	14.72	150	11.02	3.52	24.35	6.67	-330	147	- Sulfur smell
0955	14.70	150	12.35	3.47	21.54	6.57	-352	107	- duplicate taken
1000	14.66	150	13.76	3.42	19.45	6.56	-365	68.5	
1005	14.61	150	15.65	3.18	16.75	6.53	-370	36.9	
1010	14.60	150	16.16	3.11	15.76	6.49	-374	29.0	
1015	14.60	150	16.32	3.13	15.49	6.76	-375	22.5	
1020	14.60	150	16.31	3.02	14.86	6.48	-377	18.5	✓
1025	14.59	150	16.25	3.02	15.01	6.44	-378	16.5	✓
1030	14.59	150	16.50	2.99	15.09	6.41	-380	~~15~~ 13.7	✓
	Sampling								
1033	14.58	150	16.50	2.96	~~14.8~~ 14.91	6.39	-380	11.8	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

Page X of X

Groundwater Monitoring Well Sampling Log

Project Name:	BUD North	Client:	BUD North / TF Cornerstone	Well ID:	MW-03
Project Location:	2-21 Mott Drive, LIC, NY	Sampled By:	MB		
Project Number:	20112	Sampling Date:	1/27/24		
Headspace PID:	0.1	Sampling Time:	1420		
Total Well Depth:	19.82 ft. below top of casing	Water Column:	0 feet		*= 0.041 * WC for 1" wells
Depth to Water:	14.48 ft. below top of casing	Well Volume*:	0 gallons		*= 0.163 * WC for 2" wells
Product Thickness:	NA ft. below top of casing	Volume Purged:	gallons		*= 0.653 * WC for 4" wells
Depth to Top of Screen:	ft. below top of casing	Well Diameter:	2 inches		The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
Depth to Bottom of Screen:	ft. below top of casing	Purging Device:	Bladder Pump		
Approximate Pump Intake:	17.00 ft. below top of casing				

Time	Depth to Water (ft.)	Purge Rate (ml/min)	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1315	14.54	75	15.85	2.00	7.02	6.15	-60	638	
1320	14.62	75	17.29	~~1.98~~	2.15	6.17	-61	522	
1325	14.62	75	17.84	2.06	1.34	6.19	-65	417	
1330	14.64	75	18.17	2.22	1.28	6.19	-71	282	
1335	14.67	75	18.13	2.34	1.33	6.18	-75	210	
1340	14.66	75	18.29	2.48	1.36	6.17	-81	138	
1345	14.66	75	18.34	2.58	1.18	6.16	-85	108	
1350	14.67	75	18.37	2.71	1.11	6.14	-90	82.5	
1355	14.64	75	18.42	2.73	1.19	6.13	-90	79.5	
1400	14.63	75	18.50	2.77	1.15	6.13	-92	65.9	
1405	14.66	75	18.52	2.79	1.04	6.13	-92	55.5	
1410	14.67	75	18.6	2.84	1.06	6.12	-93	45.0	
1415	14.66	75	18.58	2.80	1.04	6.13	-94	42.4	
					Sampling				
Stabilization Criteria:				+/- 3% mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	

ATTACMENT B
LABORATORY DATA REPORTS AND DUSRS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Diggins
AKRF Inc
440 Park Avenue South
7th Floor
New York, New York 10016

Generated 2/3/2025 11:05:09 AM

JOB DESCRIPTION

Bud North - 2-21 Malt Drive, Long Island

JOB NUMBER

460-319159-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

Job Notes

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

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

Authorization

Generated
2/3/2025 11:05:09 AM

Authorized for release by
Elizabeth Flannery, Project Manager I
Elizabeth.Flannery@et.eurofinsus.com
(732)549-3900

Table of Contents

Definitions/Glossary

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Qualifiers

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Indicates an estimated value.
U	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 Narrative
460-319159-1

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 1/22/2025 6:00 PM and 1/27/2025 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.5°C, 3.7°C, 4.4°C, 5.5°C, 5.7°C and 5.9°C.

Method 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS
Samples MW-02_20250122 (460-319159-1), MW-01_20250122 (460-319159-2), MW-01_20250122 (460-319159-2MS), MW-01_20250122 (460-319159-2MSD), MW-01X_20250122 (460-319159-3), FB-01_20250122 (460-319159-4) and MW-03_20250127 (460-319401-1) were analyzed for Per- and Polyfluoroalkyl Substances by LC/MS/MS. The samples were prepared on 1/27/2025 and 1/31/2025 and analyzed on 1/28/2025 and 1/31/2025.

The low level continuing calibration verification (CCVL) associated with batch 240-642732 recovered above the upper control limit for Perfluorodecanesulfonic acid (PFDS). The samples associated with this CCVL were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-02_20250122 (460-319159-1), MW-01_20250122 (460-319159-2), MW-01_20250122 (460-319159-2[MS]), MW-01_20250122 (460-319159-2[MSD]), MW-01X_20250122 (460-319159-3), FB-01_20250122 (460-319159-4), (CCVL 240-642732/2) and (460-319159-B-1-A DU).

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: MW-02_20250122 (460-319159-1), MW-01_20250122 (460-319159-2), MW-01_20250122 (460-319159-2[MS]), MW-01_20250122 (460-319159-2[MSD]), MW-01X_20250122 (460-319159-3), FB-01_20250122 (460-319159-4), (CCVIS 240-642732/3) and (460-319159-B-1-A DU).

The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: MW-02_20250122 (460-319159-1). Generally, data quality is not considered affected if the IDA recovery is greater than 5% and signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: MW-01_20250122 (460-319159-2). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Dilution performed per analyst visual inspection due to high amount of particulate matter in sample. Aliquot taken. Laboratory proceeded with analysis.

MW-03_20250127 (460-319401-1)

Detection Summary

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-02_20250122 — Lab Sample ID: 460-319159-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	22.3		5.92	1.58	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	37.4		2.96	0.74	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	42.0		1.48	0.37	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	13.4		1.48	0.37	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	45.5		1.48	0.37	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	2.43		1.48	0.37	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.89	J	1.48	0.37	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	13.2		1.48	0.37	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.70	J	1.48	0.37	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.06		1.48	0.38	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	12.7		1.48	0.37	ng/L	1		1633	Total/NA

Client Sample ID: MW-01_20250122 — Lab Sample ID: 460-319159-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.72		6.32	1.68	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	8.80		3.16	0.79	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	9.32		1.58	0.39	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.02		1.58	0.39	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	31.4		1.58	0.39	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	0.89	J	1.58	0.39	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.47		1.58	0.39	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.48	J	1.58	0.39	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.28	J	1.58	0.41	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.05		1.58	0.39	ng/L	1		1633	Total/NA

Client Sample ID: MW-01X_20250122 — Lab Sample ID: 460-319159-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	23.9		6.15	1.64	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	37.7		3.08	0.77	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	41.8		1.54	0.38	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	13.0		1.54	0.38	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	47.0		1.54	0.38	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	2.67		1.54	0.38	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.81	J	1.54	0.38	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12.5		1.54	0.38	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.70	J	1.54	0.38	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.33		1.54	0.40	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	13.2		1.54	0.38	ng/L	1		1633	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.81	J	1.54	0.48	ng/L	1		1633	Total/NA

Client Sample ID: FB-01_20250122 — Lab Sample ID: 460-319159-4

No Detections.

Client Sample ID: MW-03_20250127 — Lab Sample ID: 460-319401-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	34.5		17.1	4.54	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample ID: MW-03_20250127 (Continued)
Lab Sample ID: 460-319401-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	40.4		8.53	2.13	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	54.1		4.27	1.07	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	17.3		4.27	1.07	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	50.0		4.27	1.07	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	2.05	J	4.27	1.07	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	22.3		4.27	1.07	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.44		4.27	1.10	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.20		4.27	1.07	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-02_20250122
Lab Sample ID: 460-319159-1
Date Collected: 01/22/25 10:33
Matrix: Water
Date Received: 01/22/25 18:00

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)	**22.3**		5.92	1.58	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluoropentanoic acid (PFPeA)	**37.4**		2.96	0.74	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorohexanoic acid (PFHxA)	**42.0**		1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluoroheptanoic acid (PFHpA)	**13.4**		1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorooctanoic acid (PFOA)	**45.5**		1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorononanoic acid (PFNA)	**2.43**		1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorodecanoic acid (PFDA)	**0.89**	**J**	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluoroundecanoic acid (PFUnA)	1.48	U	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorododecanoic acid (PFDoA)	1.48	U	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorotridecanoic acid (PFTrDA)	1.48	U	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorotetradecanoic acid (PFTeDA)	1.48	U	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorobutanesulfonic acid (PFBS)	**13.2**		1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluoropentanesulfonic acid (PFPeS)	**0.70**	**J**	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorohexanesulfonic acid (PFHxS)	**4.06**		1.48	0.38	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluoroheptanesulfonic acid (PFHpS)	1.48	U	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorooctanesulfonic acid (PFOS)	**12.7**		1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorononanesulfonic acid (PFNS)	1.48	U	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorododecanesulfonic acid (PFDoS)	1.48	U	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	5.92	U	5.92	1.48	ng/L		01/27/25 13:46	01/28/25 04:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.92	U	5.92	1.48	ng/L		01/27/25 13:46	01/28/25 04:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	5.92	U	5.92	1.48	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorooctanesulfonamide (PFOSA)	1.48	U	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.48	U	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.48	U	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.48	U	1.48	0.46	ng/L		01/27/25 13:46	01/28/25 04:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.48	U	1.48	0.39	ng/L		01/27/25 13:46	01/28/25 04:51	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	14.8	U	14.8	3.70	ng/L		01/27/25 13:46	01/28/25 04:51	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	14.8	U	14.8	3.70	ng/L		01/27/25 13:46	01/28/25 04:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	5.92	U	5.92	1.48	ng/L		01/27/25 13:46	01/28/25 04:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.92	U	5.92	1.48	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.96	U	2.96	0.74	ng/L		01/27/25 13:46	01/28/25 04:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.96	U	2.96	0.90	ng/L		01/27/25 13:46	01/28/25 04:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	5.92	U	5.92	1.48	ng/L		01/27/25 13:46	01/28/25 04:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	5.92	U	5.92	1.48	ng/L		01/27/25 13:46	01/28/25 04:51	1

Client Sample ID: MW-02_20250122
Lab Sample ID: 460-319159-1

Date Collected: 01/22/25 10:33
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.96	U	2.96	0.74	ng/L		01/27/25 13:46	01/28/25 04:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.40	U	7.40	1.85	ng/L		01/27/25 13:46	01/28/25 04:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	37.0	U	37.0	9.25	ng/L		01/27/25 13:46	01/28/25 04:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	37.0	U	37.0	11.0	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluorodecanesulfonic acid (PFDS)	1.48	U	1.48	0.37	ng/L		01/27/25 13:46	01/28/25 04:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.96	U	2.96	0.74	ng/L		01/27/25 13:46	01/28/25 04:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*68.2*		*10 - 130*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C5 PFPeA	*53.1*		*35 - 150*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C5 PFHxA	*53.5*	*	*55 - 150*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C4 PFHpA	*51.9*	*	*55 - 150*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C8 PFOA	*62.7*		*60 - 140*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C9 PFNA	*64.6*		*55 - 140*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C6 PFDA	*52.7*		*50 - 140*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C7 PFUnA	*58.2*		*30 - 140*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C2 PFTeDA	*50.9*		*10 - 130*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C3 PFBS	*67.3*		*55 - 150*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C3 PFHxS	*72.8*		*55 - 150*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C8 PFOS	*57.4*		*45 - 140*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C8 FOSA	*53.2*		*30 - 130*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
d3-NMeFOSAA	*64.9*		*45 - 200*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
d5-NEtFOSAA	*69.7*		*10 - 200*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
M2-4:2 FTS	*147*		*60 - 200*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
M2-6:2 FTS	*93.0*		*60 - 200*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
M2-8:2 FTS	*77.1*		*50 - 200*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C3 HFPO-DA	*57.7*		*25 - 160*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
d7-N-MeFOSE-M	*46.7*		*10 - 150*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
d9-N-EtFOSE-M	*50.1*		*10 - 150*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
d5-NEtPFOSA	*52.5*		*10 - 130*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
d3-NMePFOSA	*48.7*		*15 - 130*	*01/27/25 13:46*	*01/28/25 04:51*	*1*
13C2-PFDoDA	*48.8*		*10 - 150*	*01/27/25 13:46*	*01/28/25 04:51*	*1*

Client Sample ID: MW-01_20250122
Lab Sample ID: 460-319159-2

Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

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)	**9.72**		6.32	1.68	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluoropentanoic acid (PFPeA)	**8.80**		3.16	0.79	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorohexanoic acid (PFHxA)	**9.32**		1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluoroheptanoic acid (PFHpA)	**6.02**		1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorooctanoic acid (PFOA)	**31.4**		1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorononanoic acid (PFNA)	**0.89**	**J**	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorodecanoic acid (PFDA)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluoroundecanoic acid (PFUnA)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-01_20250122
Lab Sample ID: 460-319159-2
Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorotridecanoic acid (PFTrDA)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorotetradecanoic acid (PFTeDA)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorobutanesulfonic acid (PFBS)	**2.47**		1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluoropentanesulfonic acid (PFPeS)	**0.48**	**J**	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorohexanesulfonic acid (PFHxS)	**1.28**	**J**	1.58	0.41	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluoroheptanesulfonic acid (PFHpS)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorooctanesulfonic acid (PFOS)	**6.05**		1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorononanesulfonic acid (PFNS)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorododecanesulfonic acid (PFDoS)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	6.32	U	6.32	1.58	ng/L		01/27/25 13:46	01/28/25 05:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	6.32	U	6.32	1.58	ng/L		01/27/25 13:46	01/28/25 05:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.32	U	6.32	1.58	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorooctanesulfonamide (PFOSA)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.58	U	1.58	0.49	ng/L		01/27/25 13:46	01/28/25 05:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.58	U	1.58	0.41	ng/L		01/27/25 13:46	01/28/25 05:08	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	15.8	U	15.8	3.95	ng/L		01/27/25 13:46	01/28/25 05:08	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	15.8	U	15.8	3.95	ng/L		01/27/25 13:46	01/28/25 05:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.32	U	6.32	1.58	ng/L		01/27/25 13:46	01/28/25 05:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.32	U	6.32	1.58	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.16	U	3.16	0.79	ng/L		01/27/25 13:46	01/28/25 05:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.16	U	3.16	0.96	ng/L		01/27/25 13:46	01/28/25 05:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	6.32	U	6.32	1.58	ng/L		01/27/25 13:46	01/28/25 05:08	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	6.32	U	6.32	1.58	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.16	U	3.16	0.79	ng/L		01/27/25 13:46	01/28/25 05:08	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.90	U	7.90	1.97	ng/L		01/27/25 13:46	01/28/25 05:08	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	39.5	U	39.5	9.87	ng/L		01/27/25 13:46	01/28/25 05:08	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	39.5	U	39.5	11.8	ng/L		01/27/25 13:46	01/28/25 05:08	1
Perfluorodecanesulfonic acid (PFDS)	1.58	U	1.58	0.39	ng/L		01/27/25 13:46	01/28/25 05:08	1

Client Sample ID: MW-01_20250122
Lab Sample ID: 460-319159-2

Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

Method: EPA 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)	3.16	U	3.16	0.79	ng/L		01/27/25 13:46	01/28/25 05:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*84.7*		*10 - 130*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C5 PFPeA	*73.6*		*35 - 150*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C5 PFHxA	*78.3*		*55 - 150*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C4 PFHpA	*75.6*		*55 - 150*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C8 PFOA	*89.3*		*60 - 140*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C9 PFNA	*92.2*		*55 - 140*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C6 PFDA	*77.2*		*50 - 140*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C7 PFUnA	*79.1*		*30 - 140*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C2 PFTeDA	*60.3*		*10 - 130*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C3 PFBS	*88.8*		*55 - 150*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C3 PFHxS	*101*		*55 - 150*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C8 PFOS	*78.0*		*45 - 140*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C8 FOSA	*75.7*		*30 - 130*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
d3-NMeFOSAA	*89.5*		*45 - 200*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
d5-NEtFOSAA	*89.4*		*10 - 200*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
M2-4:2 FTS	*203*	*	*60 - 200*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
M2-6:2 FTS	*124*		*60 - 200*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
M2-8:2 FTS	*104*		*50 - 200*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C3 HFPO-DA	*82.0*		*25 - 160*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
d7-N-MeFOSE-M	*63.7*		*10 - 150*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
d9-N-EtFOSE-M	*69.4*		*10 - 150*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
d5-NEtPFOSA	*70.0*		*10 - 130*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
d3-NMePFOSA	*65.0*		*15 - 130*	*01/27/25 13:46*	*01/28/25 05:08*	*1*
13C2-PFDoDA	*65.7*		*10 - 150*	*01/27/25 13:46*	*01/28/25 05:08*	*1*

Client Sample ID: MW-01X_20250122
Lab Sample ID: 460-319159-3

Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

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)	**23.9**		6.15	1.64	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluoropentanoic acid (PFPeA)	**37.7**		3.08	0.77	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorohexanoic acid (PFHxA)	**41.8**		1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluoroheptanoic acid (PFHpA)	**13.0**		1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorooctanoic acid (PFOA)	**47.0**		1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorononanoic acid (PFNA)	**2.67**		1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorodecanoic acid (PFDA)	**0.81**	**J**	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluoroundecanoic acid (PFUnA)	1.54	U	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorododecanoic acid (PFDoA)	1.54	U	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorotridecanoic acid (PFTrDA)	1.54	U	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorotetradecanoic acid (PFTeDA)	1.54	U	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorobutanesulfonic acid (PFBS)	**12.5**		1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluoropentanesulfonic acid (PFPeS)	**0.70**	**J**	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorohexanesulfonic acid (PFHxS)	**4.33**		1.54	0.40	ng/L		01/27/25 13:46	01/28/25 05:58	1

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-01X_20250122
Lab Sample ID: 460-319159-3
Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	1.54	U	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorooctanesulfonic acid (PFOS)	**13.2**		1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorononanesulfonic acid (PFNS)	1.54	U	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorododecanesulfonic acid (PFDoS)	1.54	U	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	6.15	U	6.15	1.54	ng/L		01/27/25 13:46	01/28/25 05:58	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	6.15	U	6.15	1.54	ng/L		01/27/25 13:46	01/28/25 05:58	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.15	U	6.15	1.54	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorooctanesulfonamide (PFOSA)	1.54	U	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.54	U	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.54	U	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**0.81**	**J**	1.54	0.48	ng/L		01/27/25 13:46	01/28/25 05:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.54	U	1.54	0.40	ng/L		01/27/25 13:46	01/28/25 05:58	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	15.4	U	15.4	3.84	ng/L		01/27/25 13:46	01/28/25 05:58	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	15.4	U	15.4	3.84	ng/L		01/27/25 13:46	01/28/25 05:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.15	U	6.15	1.54	ng/L		01/27/25 13:46	01/28/25 05:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.15	U	6.15	1.54	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.08	U	3.08	0.77	ng/L		01/27/25 13:46	01/28/25 05:58	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.08	U	3.08	0.94	ng/L		01/27/25 13:46	01/28/25 05:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	6.15	U	6.15	1.54	ng/L		01/27/25 13:46	01/28/25 05:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	6.15	U	6.15	1.54	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.08	U	3.08	0.77	ng/L		01/27/25 13:46	01/28/25 05:58	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.69	U	7.69	1.92	ng/L		01/27/25 13:46	01/28/25 05:58	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	38.4	U	38.4	9.61	ng/L		01/27/25 13:46	01/28/25 05:58	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	38.4	U	38.4	11.5	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluorodecanesulfonic acid (PFDS)	1.54	U	1.54	0.38	ng/L		01/27/25 13:46	01/28/25 05:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.08	U	3.08	0.77	ng/L		01/27/25 13:46	01/28/25 05:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*70.3*		*10 - 130*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C5 PFPeA	*57.0*		*35 - 150*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C5 PFHxA	*61.1*		*55 - 150*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C4 PFHpA	*59.4*		*55 - 150*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C8 PFOA	*70.8*		*60 - 140*	*01/27/25 13:46*	*01/28/25 05:58*	*1*

Client Sample ID: MW-01X_20250122
Lab Sample ID: 460-319159-3

Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C9 PFNA	*72.3*		*55 - 140*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C6 PFDA	*63.1*		*50 - 140*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C7 PFUnA	*67.9*		*30 - 140*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C2 PFTeDA	*53.6*		*10 - 130*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C3 PFBS	*74.6*		*55 - 150*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C3 PFHxS	*79.8*		*55 - 150*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C8 PFOS	*65.0*		*45 - 140*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C8 FOSA	*61.6*		*30 - 130*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
d3-NMeFOSAA	*74.9*		*45 - 200*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
d5-NEtFOSAA	*73.6*		*10 - 200*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
M2-4:2 FTS	*165*		*60 - 200*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
M2-6:2 FTS	*105*		*60 - 200*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
M2-8:2 FTS	*81.7*		*50 - 200*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C3 HFPO-DA	*62.4*		*25 - 160*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
d7-N-MeFOSE-M	*54.3*		*10 - 150*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
d9-N-EtFOSE-M	*52.8*		*10 - 150*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
d5-NEtPFOSA	*57.6*		*10 - 130*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
d3-NMePFOSA	*51.5*		*15 - 130*	*01/27/25 13:46*	*01/28/25 05:58*	*1*
13C2-PFDoDA	*55.4*		*10 - 150*	*01/27/25 13:46*	*01/28/25 05:58*	*1*

Client Sample ID: FB-01_20250122
Lab Sample ID: 460-319159-4

Date Collected: 01/22/25 12:05
Matrix: Water
Date Received: 01/22/25 18:00

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)	5.99	U	5.99	1.60	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluoropentanoic acid (PFPeA)	3.00	U	3.00	0.75	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorohexanoic acid (PFHxA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluoroheptanoic acid (PFHpA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorooctanoic acid (PFOA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorononanoic acid (PFNA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorodecanoic acid (PFDA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluoroundecanoic acid (PFUnA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorododecanoic acid (PFDoA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorotridecanoic acid (PFTrDA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorotetradecanoic acid (PFTeDA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorobutanesulfonic acid (PFBS)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluoropentanesulfonic acid (PFPeS)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorohexanesulfonic acid (PFHxS)	1.50	U	1.50	0.39	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluoroheptanesulfonic acid (PFHpS)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorooctanesulfonic acid (PFOS)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorononanesulfonic acid (PFNS)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorododecanesulfonic acid (PFDoS)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	5.99	U	5.99	1.50	ng/L		01/27/25 13:46	01/28/25 06:14	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.99	U	5.99	1.50	ng/L		01/27/25 13:46	01/28/25 06:14	1

Client Sample ID: FB-01_20250122
Lab Sample ID: 460-319159-4
Date Collected: 01/22/25 12:05
Matrix: Water
Date Received: 01/22/25 18:00

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)	5.99	U	5.99	1.50	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorooctanesulfonamide (PFOSA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.50	U	1.50	0.46	ng/L		01/27/25 13:46	01/28/25 06:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.50	U	1.50	0.39	ng/L		01/27/25 13:46	01/28/25 06:14	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	15.0	U	15.0	3.74	ng/L		01/27/25 13:46	01/28/25 06:14	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	15.0	U	15.0	3.74	ng/L		01/27/25 13:46	01/28/25 06:14	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	5.99	U	5.99	1.50	ng/L		01/27/25 13:46	01/28/25 06:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.99	U	5.99	1.50	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.00	U	3.00	0.75	ng/L		01/27/25 13:46	01/28/25 06:14	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.00	U	3.00	0.91	ng/L		01/27/25 13:46	01/28/25 06:14	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	5.99	U	5.99	1.50	ng/L		01/27/25 13:46	01/28/25 06:14	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	5.99	U	5.99	1.50	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.00	U	3.00	0.75	ng/L		01/27/25 13:46	01/28/25 06:14	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.49	U	7.49	1.87	ng/L		01/27/25 13:46	01/28/25 06:14	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	37.4	U	37.4	9.36	ng/L		01/27/25 13:46	01/28/25 06:14	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	37.4	U	37.4	11.2	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluorodecanesulfonic acid (PFDS)	1.50	U	1.50	0.37	ng/L		01/27/25 13:46	01/28/25 06:14	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.00	U	3.00	0.75	ng/L		01/27/25 13:46	01/28/25 06:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*84.7*		*10 - 130*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C5 PFPeA	*76.9*		*35 - 150*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C5 PFHxA	*72.5*		*55 - 150*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C4 PFHpA	*70.2*		*55 - 150*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C8 PFOA	*84.3*		*60 - 140*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C9 PFNA	*90.2*		*55 - 140*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C6 PFDA	*75.6*		*50 - 140*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C7 PFUnA	*78.8*		*30 - 140*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C2 PFTeDA	*60.1*		*10 - 130*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C3 PFBS	*87.2*		*55 - 150*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C3 PFHxS	*91.8*		*55 - 150*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C8 PFOS	*76.2*		*45 - 140*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C8 FOSA	*74.5*		*30 - 130*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
d3-NMeFOSAA	*79.3*		*45 - 200*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
d5-NEtFOSAA	*85.1*		*10 - 200*	*01/27/25 13:46*	*01/28/25 06:14*	*1*

Client Sample ID: FB-01_20250122
Lab Sample ID: 460-319159-4

Date Collected: 01/22/25 12:05
Matrix: Water
Date Received: 01/22/25 18:00

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	*94.3*		*60 - 200*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
M2-6:2 FTS	*102*		*60 - 200*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
M2-8:2 FTS	*93.5*		*50 - 200*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C3 HFPO-DA	*76.4*		*25 - 160*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
d7-N-MeFOSE-M	*70.1*		*10 - 150*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
d9-N-EtFOSE-M	*73.1*		*10 - 150*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
d5-NEtPFOSA	*70.7*		*10 - 130*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
d3-NMePFOSA	*63.9*		*15 - 130*	*01/27/25 13:46*	*01/28/25 06:14*	*1*
13C2-PFDoDA	*67.3*		*10 - 150*	*01/27/25 13:46*	*01/28/25 06:14*	*1*

Client Sample ID: MW-03_20250127
Lab Sample ID: 460-319401-1

Date Collected: 01/27/25 14:30
Matrix: Water
Date Received: 01/27/25 18:00

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)	**34.5**		17.1	4.54	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluoropentanoic acid (PFPeA)	**40.4**		8.53	2.13	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorohexanoic acid (PFHxA)	**54.1**		4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluoroheptanoic acid (PFHpA)	**17.3**		4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorooctanoic acid (PFOA)	**50.0**		4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorononanoic acid (PFNA)	**2.05**	**J**	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorodecanoic acid (PFDA)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluoroundecanoic acid (PFUnA)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorododecanoic acid (PFDoA)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorotridecanoic acid (PFTrDA)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorotetradecanoic acid (PFTeDA)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorobutanesulfonic acid (PFBS)	**22.3**		4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluoropentanesulfonic acid (PFPeS)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorohexanesulfonic acid (PFHxS)	**4.44**		4.27	1.10	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluoroheptanesulfonic acid (PFHpS)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorooctanesulfonic acid (PFOS)	**5.20**		4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorononanesulfonic acid (PFNS)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorododecanesulfonic acid (PFDoS)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	17.1	U	17.1	4.27	ng/L		01/31/25 08:55	01/31/25 15:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	17.1	U	17.1	4.27	ng/L		01/31/25 08:55	01/31/25 15:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	17.1	U	17.1	4.27	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorooctanesulfonamide (PFOSA)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.27	U	4.27	1.32	ng/L		01/31/25 08:55	01/31/25 15:23	1

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-03_20250127
Lab Sample ID: 460-319401-1
Date Collected: 01/27/25 14:30
Matrix: Water
Date Received: 01/27/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.27	U	4.27	1.11	ng/L		01/31/25 08:55	01/31/25 15:23	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	42.7	U	42.7	10.7	ng/L		01/31/25 08:55	01/31/25 15:23	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	42.7	U	42.7	10.7	ng/L		01/31/25 08:55	01/31/25 15:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	17.1	U	17.1	4.27	ng/L		01/31/25 08:55	01/31/25 15:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	17.1	U	17.1	4.27	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	8.53	U	8.53	2.13	ng/L		01/31/25 08:55	01/31/25 15:23	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.53	U	8.53	2.60	ng/L		01/31/25 08:55	01/31/25 15:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	17.1	U	17.1	4.27	ng/L		01/31/25 08:55	01/31/25 15:23	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	17.1	U	17.1	4.27	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	8.53	U	8.53	2.13	ng/L		01/31/25 08:55	01/31/25 15:23	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	21.3	U	21.3	5.33	ng/L		01/31/25 08:55	01/31/25 15:23	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	107	U	107	26.7	ng/L		01/31/25 08:55	01/31/25 15:23	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	107	U	107	31.8	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluorodecanesulfonic acid (PFDS)	4.27	U	4.27	1.07	ng/L		01/31/25 08:55	01/31/25 15:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	8.53	U	8.53	2.13	ng/L		01/31/25 08:55	01/31/25 15:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93.3*		*10 - 130*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C5 PFPeA	*94.7*		*35 - 150*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C5 PFHxA	*86.6*		*55 - 150*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C4 PFHpA	*87.2*		*55 - 150*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C8 PFOA	*97.9*		*60 - 140*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C9 PFNA	*107*		*55 - 140*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C6 PFDA	*95.9*		*50 - 140*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C7 PFUnA	*84.9*		*30 - 140*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C2 PFTeDA	*77.4*		*10 - 130*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C3 PFBS	*98.8*		*55 - 150*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C3 PFHxS	*105*		*55 - 150*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C8 PFOS	*99.3*		*45 - 140*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C8 FOSA	*96.2*		*30 - 130*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
d3-NMeFOSAA	*91.8*		*45 - 200*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
d5-NEtFOSAA	*103*		*10 - 200*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
M2-4:2 FTS	*166*		*60 - 200*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
M2-6:2 FTS	*120*		*60 - 200*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
M2-8:2 FTS	*104*		*50 - 200*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
13C3 HFPO-DA	*86.3*		*25 - 160*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
d7-N-MeFOSE-M	*37.8*		*10 - 150*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
d9-N-EtFOSE-M	*19.9*		*10 - 150*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
d5-NEtPFOSA	*77.3*		*10 - 130*	*01/31/25 08:55*	*01/31/25 15:23*	*1*
d3-NMePFOSA	*70.6*		*15 - 130*	*01/31/25 08:55*	*01/31/25 15:23*	*1*

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-03_20250127
Lab Sample ID: 460-319401-1
Date Collected: 01/27/25 14:30
Matrix: Water
Date Received: 01/27/25 18:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoDA	78.0		10 - 150	01/31/25 08:55	01/31/25 15:23	1

Isotope Dilution Summary

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

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)
460-319159-1	MW-02_20250122	68.2	53.1	53.5 *	51.9 *	62.7	64.6	52.7	58.2
460-319159-1 DU	MW-02_20250122	68.7	54.8	59.0	56.4	65.6	68.2	56.9	63.5
460-319159-2	MW-01_20250122	84.7	73.6	78.3	75.6	89.3	92.2	77.2	79.1
460-319159-2 MS	MW-01_20250122	66.3	54.0	57.3	56.0	60.0	66.7	55.4	56.8
460-319159-2 MSD	MW-01_20250122	79.4	67.7	71.0	70.1	85.0	87.7	72.6	74.8
460-319159-3	MW-01X_20250122	70.3	57.0	61.1	59.4	70.8	72.3	63.1	67.9
460-319159-4	FB-01_20250122	84.7	76.9	72.5	70.2	84.3	90.2	75.6	78.8
460-319401-1	MW-03_20250127	93.3	94.7	86.6	87.2	97.9	107	95.9	84.9
MB 240-642719/1-A	Method Blank	96.5	91.0	88.3	89.4	100	102	87.5	94.3
MB 240-643167/1-A	Method Blank	78.8	85.0	74.3	74.3	75.7	80.9	71.4	69.6

		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)
460-319159-1	MW-02_20250122	50.9	67.3	72.8	57.4	53.2	64.9	69.7	147
460-319159-1 DU	MW-02_20250122	55.4	68.9	74.8	60.4	58.0	68.4	94.4	142
460-319159-2	MW-01_20250122	60.3	88.8	101	78.0	75.7	89.5	89.4	203 *
460-319159-2 MS	MW-01_20250122	40.7	67.3	73.5	56.5	53.0	65.9	65.8	156
460-319159-2 MSD	MW-01_20250122	56.3	82.0	89.0	74.4	71.4	84.9	82.6	184
460-319159-3	MW-01X_20250122	53.6	74.6	79.8	65.0	61.6	74.9	73.6	165
460-319159-4	FB-01_20250122	60.1	87.2	91.8	76.2	74.5	79.3	85.1	94.3
460-319401-1	MW-03_20250127	77.4	98.8	105	99.3	96.2	91.8	103	166
MB 240-642719/1-A	Method Blank	71.6	106	111	84.7	84.0	96.8	117	117
MB 240-643167/1-A	Method Blank	75.6	77.7	79.4	70.9	72.3	71.2	88.8	78.3

		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)
460-319159-1	MW-02_20250122	93.0	77.1	57.7	46.7	50.1	52.5	48.7	48.8
460-319159-1 DU	MW-02_20250122	93.0	82.5	56.6	53.8	54.4	57.2	50.5	54.2
460-319159-2	MW-01_20250122	124	104	82.0	63.7	69.4	70.0	65.0	65.7
460-319159-2 MS	MW-01_20250122	89.6	74.4	57.0	47.0	47.9	51.8	45.7	45.8
460-319159-2 MSD	MW-01_20250122	121	93.7	73.2	65.2	62.6	68.4	59.0	60.5
460-319159-3	MW-01X_20250122	105	81.7	62.4	54.3	52.8	57.6	51.5	55.4
460-319159-4	FB-01_20250122	102	93.5	76.4	70.1	73.1	70.7	63.9	67.3
460-319401-1	MW-03_20250127	120	104	86.3	37.8	19.9	77.3	70.6	78.0
MB 240-642719/1-A	Method Blank	123	111	95.9	76.9	83.8	81.9	69.5	78.4
MB 240-643167/1-A	Method Blank	77.2	76.0	78.3	54.2	53.6	63.6	58.1	69.7

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: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
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-NMePFOSA
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 240-642719/3-A	Lab Control Sample	84.8	82.3	72.8	72.9	82.1	86.8	70.7	74.7
LCS 240-643167/3-A	Lab Control Sample	74.8	83.3	76.2	73.2	76.4	79.9	73.4	72.0
LLCS 240-642719/2-A	Lab Control Sample	86.9	90.5	76.0	78.1	87.9	95.9	78.6	82.3
LLCS 240-643167/2-A	Lab Control Sample	68.5	77.4	68.3	67.6	69.4	72.0	64.2	61.2

		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 240-642719/3-A	Lab Control Sample	57.3	78.0	91.8	72.4	70.2	76.3	94.4	90.6
LCS 240-643167/3-A	Lab Control Sample	72.7	76.8	80.5	74.0	71.1	68.6	91.4	81.5
LLCS 240-642719/2-A	Lab Control Sample	56.1	88.0	96.3	78.9	77.3	81.3	101	103
LLCS 240-643167/2-A	Lab Control Sample	66.4	71.3	72.4	65.9	64.5	64.0	84.2	72.9

		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 240-642719/3-A	Lab Control Sample	90.6	89.5	82.3	61.0	69.0	61.8	57.1	60.7
LCS 240-643167/3-A	Lab Control Sample	78.4	78.1	76.3	55.3	51.1	61.2	57.9	66.5
LLCS 240-642719/2-A	Lab Control Sample	109	100	90.7	67.8	76.6	68.7	60.2	63.4
LLCS 240-643167/2-A	Lab Control Sample	70.5	67.5	72.4	52.6	47.5	51.9	50.2	62.1

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS

Isotope Dilution Summary

Client: AKRF Inc

Job ID: 460-319159-1

Project/Site: Bud North - 2-21 Malt Drive, Long Island

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-NMePFOSA

PFDoDA = 13C2-PFDoDA

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

Lab Sample ID: MB 240-642719/1-A
Matrix: Water
Analysis Batch: 642732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	8.00	U	8.00	2.13	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluoropentanoic acid (PFPeA)	4.00	U	4.00	1.00	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorotridecanoic acid (PFTrDA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorotetradecanoic acid (PFTeDA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluoropentanesulfonic acid (PFPeS)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.52	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluoroheptanesulfonic acid (PFHpS)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorononanesulfonic acid (PFNS)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorododecanesulfonic acid (PFDoS)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	8.00	U	8.00	2.00	ng/L		01/27/25 13:46	01/28/25 04:01	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	8.00	U	8.00	2.00	ng/L		01/27/25 13:46	01/28/25 04:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	8.00	U	8.00	2.00	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorooctanesulfonamide (PFOSA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.62	ng/L		01/27/25 13:46	01/28/25 04:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.52	ng/L		01/27/25 13:46	01/28/25 04:01	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	U	20.0	5.00	ng/L		01/27/25 13:46	01/28/25 04:01	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	U	20.0	5.00	ng/L		01/27/25 13:46	01/28/25 04:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.00	U	8.00	2.00	ng/L		01/27/25 13:46	01/28/25 04:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.00	U	8.00	2.00	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	U	4.00	1.00	ng/L		01/27/25 13:46	01/28/25 04:01	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	U	4.00	1.22	ng/L		01/27/25 13:46	01/28/25 04:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	8.00	U	8.00	2.00	ng/L		01/27/25 13:46	01/28/25 04:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	8.00	U	8.00	2.00	ng/L		01/27/25 13:46	01/28/25 04:01	1

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

Lab Sample ID: MB 240-642719/1-A
Matrix: Water
Analysis Batch: 642732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.00	U	4.00	1.00	ng/L		01/27/25 13:46	01/28/25 04:01	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	10.0	U	10.0	2.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	50.0	U	50.0	12.5	ng/L		01/27/25 13:46	01/28/25 04:01	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50.0	U	50.0	14.9	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluorodecanesulfonic acid (PFDS)	2.00	U	2.00	0.50	ng/L		01/27/25 13:46	01/28/25 04:01	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	U	4.00	1.00	ng/L		01/27/25 13:46	01/28/25 04:01	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96.5*		*10 - 130*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C5 PFPeA	*91.0*		*35 - 150*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C5 PFHxA	*88.3*		*55 - 150*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C4 PFHpA	*89.4*		*55 - 150*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C8 PFOA	*100*		*60 - 140*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C9 PFNA	*102*		*55 - 140*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C6 PFDA	*87.5*		*50 - 140*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C7 PFUnA	*94.3*		*30 - 140*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C2 PFTeDA	*71.6*		*10 - 130*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C3 PFBS	*106*		*55 - 150*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C3 PFHxS	*111*		*55 - 150*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C8 PFOS	*84.7*		*45 - 140*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C8 FOSA	*84.0*		*30 - 130*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
d3-NMeFOSAA	*96.8*		*45 - 200*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
d5-NEtFOSAA	*117*		*10 - 200*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
M2-4:2 FTS	*117*		*60 - 200*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
M2-6:2 FTS	*123*		*60 - 200*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
M2-8:2 FTS	*111*		*50 - 200*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C3 HFPO-DA	*95.9*		*25 - 160*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
d7-N-MeFOSE-M	*76.9*		*10 - 150*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
d9-N-EtFOSE-M	*83.8*		*10 - 150*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
d5-NEtPFOSA	*81.9*		*10 - 130*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
d3-NMePFOSA	*69.5*		*15 - 130*	*01/27/25 13:46*	*01/28/25 04:01*	*1*
13C2-PFDoDA	*78.4*		*10 - 150*	*01/27/25 13:46*	*01/28/25 04:01*	*1*

Lab Sample ID: LCS 240-642719/3-A
Matrix: Water
Analysis Batch: 642732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	100	100.6		ng/L		101	58 - 148
Perfluoropentanoic acid (PFPeA)	50.0	55.99		ng/L		112	54 - 152
Perfluorohexanoic acid (PFHxA)	25.0	30.02		ng/L		120	55 - 152
Perfluoroheptanoic acid (PFHpA)	25.0	27.09		ng/L		108	54 - 154
Perfluorooctanoic acid (PFOA)	25.0	26.74		ng/L		107	52 - 161
Perfluorononanoic acid (PFNA)	25.0	27.94		ng/L		112	59 - 149
Perfluorodecanoic acid (PFDA)	25.0	27.04		ng/L		108	52 - 147

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

Lab Sample ID: LCS 240-642719/3-A
Matrix: Water
Analysis Batch: 642732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	25.0	26.21		ng/L		105	48 - 159
Perfluorododecanoic acid (PFDoA)	25.0	25.21		ng/L		101	64 - 142
Perfluorotridecanoic acid (PFTrDA)	25.0	28.38		ng/L		114	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	25.0	22.65		ng/L		91	47 - 161
Perfluorobutanesulfonic acid (PFBS)	22.2	26.39		ng/L		119	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	23.5	22.26		ng/L		95	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	22.8	20.95		ng/L		92	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	23.9	29.71		ng/L		125	55 - 152
Perfluorooctanesulfonic acid (PFOS)	23.3	27.47		ng/L		118	58 - 149
Perfluorononanesulfonic acid (PFNS)	24.1	27.54		ng/L		115	52 - 148
Perfluorododecanesulfonic acid (PFDoS)	24.3	19.37		ng/L		80	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	93.8	97.59		ng/L		104	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	95.2	99.12		ng/L		104	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	96.0	98.29		ng/L		102	63 - 152
Perfluorooctanesulfonamide (PFOSA)	25.0	25.66		ng/L		103	61 - 148
N-methylperfluorooctane sulfonamide (NMeFOSA)	25.0	29.65		ng/L		119	63 - 145
N-ethylperfluorooctane sulfonamide (NEtFOSA)	25.0	27.42		ng/L		110	65 - 139
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.0	26.55		ng/L		106	58 - 144
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.0	24.97		ng/L		100	59 - 146
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	250	242.6		ng/L		97	71 - 136
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	250	240.0		ng/L		96	69 - 137
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	108.0		ng/L		108	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.6	95.67		ng/L		101	68 - 146
Perfluoro-4-methoxybutanoic acid (PFMBA)	50.0	53.23		ng/L		106	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50.0	52.15		ng/L		104	48 - 161
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.4	91.28		ng/L		98	56 - 156
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.4	85.56		ng/L		91	46 - 156
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44.6	47.68		ng/L		107	56 - 151

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

Lab Sample ID: LCS 240-642719/3-A
Matrix: Water
Analysis Batch: 642732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA)	125	107.9		ng/L		86	62 - 129
3-Perfluoropentylpropanoic acid (5:3 FTCA)	625	637.4		ng/L		102	63 - 134
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	625	616.9		ng/L		99	50 - 138
Perfluorodecanesulfonic acid (PFDS)	24.1	28.95		ng/L		120	51 - 147
Perfluoro-3-methoxypropanoic acid (PFMPA)	50.0	47.47		ng/L		95	51 - 145

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*84.8*		*10 - 130*
13C5 PFPeA	*82.3*		*40 - 150*
13C5 PFHxA	*72.8*		*40 - 150*
13C4 PFHpA	*72.9*		*40 - 150*
13C8 PFOA	*82.1*		*30 - 140*
13C9 PFNA	*86.8*		*30 - 140*
13C6 PFDA	*70.7*		*20 - 140*
13C7 PFUnA	*74.7*		*20 - 140*
13C2 PFTeDA	*57.3*		*10 - 130*
13C3 PFBS	*78.0*		*25 - 150*
13C3 PFHxS	*91.8*		*25 - 150*
13C8 PFOS	*72.4*		*20 - 140*
13C8 FOSA	*70.2*		*10 - 130*
d3-NMeFOSAA	*76.3*		*10 - 200*
d5-NEtFOSAA	*94.4*		*10 - 200*
M2-4:2 FTS	*90.6*		*25 - 200*
M2-6:2 FTS	*90.6*		*25 - 200*
M2-8:2 FTS	*89.5*		*25 - 200*
13C3 HFPO-DA	*82.3*		*25 - 160*
d7-N-MeFOSE-M	*61.0*		*10 - 150*
d9-N-EtFOSE-M	*69.0*		*10 - 150*
d5-NEtPFOSA	*61.8*		*10 - 130*
d3-NMePFOSA	*57.1*		*10 - 130*
13C2-PFDoDA	*60.7*		*10 - 150*

Lab Sample ID: LLCS 240-642719/2-A
Matrix: Water
Analysis Batch: 642732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642719

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	8.740		ng/L		109	44 - 157
Perfluoropentanoic acid (PFPeA)	4.00	4.261		ng/L		107	57 - 148
Perfluorohexanoic acid (PFHxA)	2.00	2.797		ng/L		140	62 - 149
Perfluoroheptanoic acid (PFHpA)	2.00	2.246		ng/L		112	56 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.381		ng/L		119	57 - 161
Perfluorononanoic acid (PFNA)	2.00	2.353		ng/L		118	53 - 157
Perfluorodecanoic acid (PFDA)	2.00	1.973	J	ng/L		99	43 - 158

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

Lab Sample ID: LLCS 240-642719/2-A
Matrix: Water
Analysis Batch: 642732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642719

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.00	2.118		ng/L		106	50 - 155
Perfluorododecanoic acid (PFDoA)	2.00	2.148		ng/L		107	60 - 141
Perfluorotridecanoic acid (PFTrDA)	2.00	2.601		ng/L		130	52 - 140
Perfluorotetradecanoic acid (PFTeDA)	2.00	2.072		ng/L		104	52 - 156
Perfluorobutanesulfonic acid (PFBS)	1.78	2.137		ng/L		120	63 - 145
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.914	J	ng/L		102	58 - 144
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.857	J	ng/L		102	44 - 158
Perfluoroheptanesulfonic acid (PFHpS)	1.91	2.428		ng/L		127	51 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	2.639		ng/L		142	43 - 162
Perfluorononanesulfonic acid (PFNS)	1.92	2.300		ng/L		120	46 - 151
Perfluorododecanesulfonic acid (PFDoS)	1.94	1.389	J	ng/L		72	30 - 138
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	8.435		ng/L		112	52 - 158
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	7.133	J	ng/L		94	48 - 158
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	7.960	J	ng/L		104	46 - 165
Perfluorooctanesulfonamide (PFOSA)	2.00	2.145		ng/L		107	47 - 163
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.00	2.470		ng/L		124	54 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.00	2.129		ng/L		106	49 - 156
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.259		ng/L		113	32 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.326		ng/L		116	51 - 154
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	20.40		ng/L		102	56 - 151
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	20.02		ng/L		100	60 - 147
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.00	9.112		ng/L		114	58 - 154
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	7.943	J	ng/L		105	61 - 148
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.146		ng/L		104	49 - 154
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.108		ng/L		103	47 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	7.47	7.152	J	ng/L		96	44 - 167
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	7.55	6.549	J	ng/L		87	36 - 158
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	3.957	J	ng/L		111	56 - 144

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

Lab Sample ID: LLCS 240-642719/2-A
Matrix: Water
Analysis Batch: 642732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642719

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA)	10.0	8.917	J	ng/L		89	32 - 161
3-Perfluoropentylpropanoic acid (5:3 FTCA)	50.0	52.68		ng/L		105	39 - 156
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50.0	50.23		ng/L		100	36 - 149
Perfluorodecanesulfonic acid (PFDS)	1.93	2.389		ng/L		124	50 - 144
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.770	J	ng/L		94	48 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*86.9*		*10 - 130*
13C5 PFPeA	*90.5*		*40 - 150*
13C5 PFHxA	*76.0*		*40 - 150*
13C4 PFHpA	*78.1*		*40 - 150*
13C8 PFOA	*87.9*		*30 - 140*
13C9 PFNA	*95.9*		*30 - 140*
13C6 PFDA	*78.6*		*20 - 140*
13C7 PFUnA	*82.3*		*20 - 140*
13C2 PFTeDA	*56.1*		*10 - 130*
13C3 PFBS	*88.0*		*25 - 150*
13C3 PFHxS	*96.3*		*25 - 150*
13C8 PFOS	*78.9*		*20 - 140*
13C8 FOSA	*77.3*		*10 - 130*
d3-NMeFOSAA	*81.3*		*10 - 200*
d5-NEtFOSAA	*101*		*10 - 200*
M2-4:2 FTS	*103*		*25 - 200*
M2-6:2 FTS	*109*		*25 - 200*
M2-8:2 FTS	*100*		*25 - 200*
13C3 HFPO-DA	*90.7*		*25 - 160*
d7-N-MeFOSE-M	*67.8*		*10 - 150*
d9-N-EtFOSE-M	*76.6*		*10 - 150*
d5-NEtPFOSA	*68.7*		*10 - 130*
d3-NMePFOSA	*60.2*		*10 - 130*
13C2-PFDoDA	*63.4*		*10 - 150*

Lab Sample ID: 460-319159-2 MS
Matrix: Water
Analysis Batch: 642732

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 642719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	9.72		73.1	79.87		ng/L		96	58 - 148
Perfluoropentanoic acid (PFPeA)	8.80		36.5	44.50		ng/L		98	54 - 152
Perfluorohexanoic acid (PFHxA)	9.32		18.3	34.03		ng/L		135	55 - 152
Perfluoroheptanoic acid (PFHpA)	6.02		18.3	26.32		ng/L		111	54 - 154
Perfluorooctanoic acid (PFOA)	31.4		18.3	51.37		ng/L		109	52 - 161
Perfluorononanoic acid (PFNA)	0.89	J	18.3	20.77		ng/L		109	59 - 149
Perfluorodecanoic acid (PFDA)	1.58	U	18.3	19.93		ng/L		109	52 - 147

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

Lab Sample ID: 460-319159-2 MS
Client Sample ID: MW-01_20250122
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 642732
Prep Batch: 642719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	1.58	U	18.3	20.10		ng/L		110	48 - 159
Perfluorododecanoic acid (PFDoA)	1.58	U	18.3	19.52		ng/L		107	64 - 142
Perfluorotridecanoic acid (PFTrDA)	1.58	U	18.3	25.27		ng/L		138	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	1.58	U	18.3	18.30		ng/L		100	47 - 161
Perfluorobutanesulfonic acid (PFBS)	2.47		16.2	23.02		ng/L		127	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	0.48	J	17.2	16.69		ng/L		94	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	1.28	J	16.7	17.09		ng/L		95	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	1.58	U	17.4	21.88		ng/L		126	55 - 152
Perfluorooctanesulfonic acid (PFOS)	6.05		17.0	26.75		ng/L		122	58 - 149
Perfluorononanesulfonic acid (PFNS)	1.58	U	17.6	21.59		ng/L		123	52 - 148
Perfluorododecanesulfonic acid (PFDoS)	1.58	U	17.7	15.01		ng/L		85	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	6.32	U	68.5	66.11		ng/L		96	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	6.32	U	69.5	68.31		ng/L		98	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.32	U	70.1	73.54		ng/L		105	63 - 152
Perfluorooctanesulfonamide (PFOSA)	1.58	U	18.3	20.00		ng/L		109	61 - 148
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.58	U	18.3	23.34		ng/L		128	63 - 145
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.58	U	18.3	19.49		ng/L		107	65 - 139
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.58	U	18.3	20.05		ng/L		110	58 - 144
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.58	U	18.3	21.14		ng/L		116	59 - 146
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	15.8	U	183	181.6		ng/L		99	71 - 136
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	15.8	U	183	196.6		ng/L		108	69 - 137
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.32	U	73.1	82.03		ng/L		112	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.32	U	69.1	72.50		ng/L		105	68 - 146
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.16	U	36.5	37.73		ng/L		103	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.16	U	36.5	35.71		ng/L		98	48 - 161
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	6.32	U	68.2	72.32		ng/L		106	56 - 156
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	6.32	U	69.0	66.03		ng/L		96	46 - 156
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.16	U	32.6	32.70		ng/L		100	56 - 151

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

Lab Sample ID: 460-319159-2 MS
Matrix: Water
Analysis Batch: 642732

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 642719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.90	U	91.3	103.3		ng/L		113	62 - 129
3-Perfluoropentylpropanoic acid (5:3 FTCA)	39.5	U	457	462.8		ng/L		101	63 - 134
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	39.5	U	457	448.7		ng/L		98	50 - 138
Perfluorodecanesulfonic acid (PFDS)	1.58	U	17.6	22.30		ng/L		127	51 - 147
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.16	U	36.5	27.20		ng/L		74	51 - 145

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*66.3*		*10 - 130*
13C5 PFPeA	*54.0*		*35 - 150*
13C5 PFHxA	*57.3*		*55 - 150*
13C4 PFHpA	*56.0*		*55 - 150*
13C8 PFOA	*60.0*		*60 - 140*
13C9 PFNA	*66.7*		*55 - 140*
13C6 PFDA	*55.4*		*50 - 140*
13C7 PFUnA	*56.8*		*30 - 140*
13C2 PFTeDA	*40.7*		*10 - 130*
13C3 PFBS	*67.3*		*55 - 150*
13C3 PFHxS	*73.5*		*55 - 150*
13C8 PFOS	*56.5*		*45 - 140*
13C8 FOSA	*53.0*		*30 - 130*
d3-NMeFOSAA	*65.9*		*45 - 200*
d5-NEtFOSAA	*65.8*		*10 - 200*
M2-4:2 FTS	*156*		*60 - 200*
M2-6:2 FTS	*89.6*		*60 - 200*
M2-8:2 FTS	*74.4*		*50 - 200*
13C3 HFPO-DA	*57.0*		*25 - 160*
d7-N-MeFOSE-M	*47.0*		*10 - 150*
d9-N-EtFOSE-M	*47.9*		*10 - 150*
d5-NEtPFOSA	*51.8*		*10 - 130*
d3-NMePFOSA	*45.7*		*15 - 130*
13C2-PFDoDA	*45.8*		*10 - 150*

Lab Sample ID: 460-319159-2 MSD
Matrix: Water
Analysis Batch: 642732

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 642719

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	9.72		75.9	82.47		ng/L		96	58 - 148	3	30
Perfluoropentanoic acid (PFPeA)	8.80		37.9	47.19		ng/L		101	54 - 152	6	30
Perfluorohexanoic acid (PFHxA)	9.32		19.0	31.88		ng/L		119	55 - 152	7	30
Perfluoroheptanoic acid (PFHpA)	6.02		19.0	27.08		ng/L		111	54 - 154	3	30
Perfluorooctanoic acid (PFOA)	31.4		19.0	49.15		ng/L		94	52 - 161	4	30
Perfluorononanoic acid (PFNA)	0.89	J	19.0	20.45		ng/L		103	59 - 149	2	30
Perfluorodecanoic acid (PFDA)	1.58	U	19.0	19.64		ng/L		104	52 - 147	1	30

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

Lab Sample ID: 460-319159-2 MSD
Client Sample ID: MW-01_20250122
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 642732
Prep Batch: 642719

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroundecanoic acid (PFUnA)	1.58	U	19.0	19.42		ng/L		102	48 - 159	3	30
Perfluorododecanoic acid (PFDoA)	1.58	U	19.0	19.11		ng/L		101	64 - 142	2	30
Perfluorotridecanoic acid (PFTrDA)	1.58	U	19.0	23.93		ng/L		126	49 - 148	5	30
Perfluorotetradecanoic acid (PFTeDA)	1.58	U	19.0	17.37		ng/L		92	47 - 161	5	30
Perfluorobutanesulfonic acid (PFBS)	2.47		16.8	23.33		ng/L		124	62 - 144	1	30
Perfluoropentanesulfonic acid (PFPeS)	0.48	J	17.8	17.91		ng/L		98	59 - 151	7	30
Perfluorohexanesulfonic acid (PFHxS)	1.28	J	17.3	17.69		ng/L		95	57 - 146	3	30
Perfluoroheptanesulfonic acid (PFHpS)	1.58	U	18.1	21.33		ng/L		118	55 - 152	3	30
Perfluorooctanesulfonic acid (PFOS)	6.05		17.6	25.20		ng/L		109	58 - 149	6	30
Perfluorononanesulfonic acid (PFNS)	1.58	U	18.3	20.37		ng/L		112	52 - 148	6	30
Perfluorododecanesulfonic acid (PFDoS)	1.58	U	18.4	14.86		ng/L		81	36 - 145	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	6.32	U	71.2	76.64		ng/L		108	67 - 146	15	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	6.32	U	72.3	83.32		ng/L		115	61 - 151	20	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.32	U	72.9	77.51		ng/L		106	63 - 152	5	30
Perfluorooctanesulfonamide (PFOSA)	1.58	U	19.0	19.38		ng/L		102	61 - 148	3	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.58	U	19.0	22.70		ng/L		120	63 - 145	3	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.58	U	19.0	19.45		ng/L		102	65 - 139	0	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.58	U	19.0	19.67		ng/L		104	58 - 144	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.58	U	19.0	20.70		ng/L		109	59 - 146	2	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	15.8	U	190	175.9		ng/L		93	71 - 136	3	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	15.8	U	190	188.7		ng/L		99	69 - 137	4	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	6.32	U	75.9	82.17		ng/L		108	63 - 144	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.32	U	71.8	73.31		ng/L		102	68 - 146	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.16	U	37.9	40.35		ng/L		106	55 - 148	7	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.16	U	37.9	36.47		ng/L		96	48 - 161	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	6.32	U	70.9	70.36		ng/L		99	56 - 156	3	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	6.32	U	71.6	62.13		ng/L		87	46 - 156	6	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.16	U	33.8	33.55		ng/L		99	56 - 151	3	30

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

Lab Sample ID: 460-319159-2 MSD
Client Sample ID: MW-01_20250122
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 642732
Prep Batch: 642719

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.90	U	94.9	84.62		ng/L		89	62 - 129	20	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	39.5	U	474	470.7		ng/L		99	63 - 134	2	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	39.5	U	474	464.0		ng/L		98	50 - 138	3	30
Perfluorodecanesulfonic acid (PFDS)	1.58	U	18.3	21.05		ng/L		115	51 - 147	6	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.16	U	37.9	28.53		ng/L		75	51 - 145	5	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*79.4*		*10 - 130*
13C5 PFPeA	*67.7*		*35 - 150*
13C5 PFHxA	*71.0*		*55 - 150*
13C4 PFHpA	*70.1*		*55 - 150*
13C8 PFOA	*85.0*		*60 - 140*
13C9 PFNA	*87.7*		*55 - 140*
13C6 PFDA	*72.6*		*50 - 140*
13C7 PFUnA	*74.8*		*30 - 140*
13C2 PFTeDA	*56.3*		*10 - 130*
13C3 PFBS	*82.0*		*55 - 150*
13C3 PFHxS	*89.0*		*55 - 150*
13C8 PFOS	*74.4*		*45 - 140*
13C8 FOSA	*71.4*		*30 - 130*
d3-NMeFOSAA	*84.9*		*45 - 200*
d5-NEtFOSAA	*82.6*		*10 - 200*
M2-4:2 FTS	*184*		*60 - 200*
M2-6:2 FTS	*121*		*60 - 200*
M2-8:2 FTS	*93.7*		*50 - 200*
13C3 HFPO-DA	*73.2*		*25 - 160*
d7-N-MeFOSE-M	*65.2*		*10 - 150*
d9-N-EtFOSE-M	*62.6*		*10 - 150*
d5-NEtPFOSA	*68.4*		*10 - 130*
d3-NMePFOSA	*59.0*		*15 - 130*
13C2-PFDoDA	*60.5*		*10 - 150*

Lab Sample ID: 460-319159-1 DU
Client Sample ID: MW-02_20250122
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 642732
Prep Batch: 642719

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	22.3			23.25		ng/L				4	30
Perfluoropentanoic acid (PFPeA)	37.4			37.49		ng/L				0.2	30
Perfluorohexanoic acid (PFHxA)	42.0			45.30		ng/L				8	30
Perfluoroheptanoic acid (PFHpA)	13.4			12.91		ng/L				4	30
Perfluorooctanoic acid (PFOA)	45.5			46.47		ng/L				2	30
Perfluorononanoic acid (PFNA)	2.43			2.368		ng/L				3	30
Perfluorodecanoic acid (PFDA)	0.89	J		0.750	J	ng/L				17	30

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

Lab Sample ID: 460-319159-1 DU
Matrix: Water
Analysis Batch: 642732

Client Sample ID: MW-02_20250122
Prep Type: Total/NA
Prep Batch: 642719

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluoroundecanoic acid (PFUnA)	1.48	U		1.55	U	ng/L				NC	30
Perfluorododecanoic acid (PFDoA)	1.48	U		1.55	U	ng/L				NC	30
Perfluorotridecanoic acid (PFTrDA)	1.48	U		1.55	U	ng/L				NC	30
Perfluorotetradecanoic acid (PFTeDA)	1.48	U		1.55	U	ng/L				NC	30
Perfluorobutanesulfonic acid (PFBS)	13.2			12.97		ng/L				2	30
Perfluoropentanesulfonic acid (PFPeS)	0.70	J		0.696	J	ng/L				0.07	30
Perfluorohexanesulfonic acid (PFHxS)	4.06			4.098		ng/L				0.8	30
Perfluoroheptanesulfonic acid (PFHpS)	1.48	U		1.55	U	ng/L				NC	30
Perfluorooctanesulfonic acid (PFOS)	12.7			12.57		ng/L				1	30
Perfluorononanesulfonic acid (PFNS)	1.48	U		1.55	U	ng/L				NC	30
Perfluorododecanesulfonic acid (PFDoS)	1.48	U		1.55	U	ng/L				NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	5.92	U		6.19	U	ng/L				NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.92	U		6.19	U	ng/L				NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	5.92	U		6.19	U	ng/L				NC	30
Perfluorooctanesulfonamide (PFOSA)	1.48	U		1.55	U	ng/L				NC	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.48	U		1.55	U	ng/L				NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.48	U		1.55	U	ng/L				NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.48	U		1.55	U	ng/L				NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.48	U		1.55	U	ng/L				NC	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	14.8	U		15.5	U	ng/L				NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	14.8	U		15.5	U	ng/L				NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	5.92	U		6.19	U	ng/L				NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.92	U		6.19	U	ng/L				NC	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.96	U		3.09	U	ng/L				NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.96	U		3.09	U	ng/L				NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	5.92	U		6.19	U	ng/L				NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	5.92	U		6.19	U	ng/L				NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.96	U		3.09	U	ng/L				NC	30

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

Lab Sample ID: 460-319159-1 DU
Matrix: Water
Analysis Batch: 642732

Client Sample ID: MW-02_20250122
Prep Type: Total/NA
Prep Batch: 642719

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.40	U		7.74	U	ng/L				NC	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	37.0	U		38.7	U	ng/L				NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	37.0	U		38.7	U	ng/L				NC	30
Perfluorodecanesulfonic acid (PFDS)	1.48	U		1.55	U	ng/L				NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.96	U		3.09	U	ng/L				NC	30

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
13C4 PFBA	*68.7*		*10 - 130*
13C5 PFPeA	*54.8*		*35 - 150*
13C5 PFHxA	*59.0*		*55 - 150*
13C4 PFHpA	*56.4*		*55 - 150*
13C8 PFOA	*65.6*		*60 - 140*
13C9 PFNA	*68.2*		*55 - 140*
13C6 PFDA	*56.9*		*50 - 140*
13C7 PFUnA	*63.5*		*30 - 140*
13C2 PFTeDA	*55.4*		*10 - 130*
13C3 PFBS	*68.9*		*55 - 150*
13C3 PFHxS	*74.8*		*55 - 150*
13C8 PFOS	*60.4*		*45 - 140*
13C8 FOSA	*58.0*		*30 - 130*
d3-NMeFOSAA	*68.4*		*45 - 200*
d5-NEtFOSAA	*94.4*		*10 - 200*
M2-4:2 FTS	*142*		*60 - 200*
M2-6:2 FTS	*93.0*		*60 - 200*
M2-8:2 FTS	*82.5*		*50 - 200*
13C3 HFPO-DA	*56.6*		*25 - 160*
d7-N-MeFOSE-M	*53.8*		*10 - 150*
d9-N-EtFOSE-M	*54.4*		*10 - 150*
d5-NEtPFOSA	*57.2*		*10 - 130*
d3-NMePFOSA	*50.5*		*15 - 130*
13C2-PFDoDA	*54.2*		*10 - 150*

Lab Sample ID: MB 240-643167/1-A
Matrix: Water
Analysis Batch: 643184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	8.00	U	8.00	2.13	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluoropentanoic acid (PFPeA)	4.00	U	4.00	1.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1

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

Lab Sample ID: MB 240-643167/1-A
Matrix: Water
Analysis Batch: 643184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorotridecanoic acid (PFTrDA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorotetradecanoic acid (PFTeDA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluoropentanesulfonic acid (PFPeS)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.52	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluoroheptanesulfonic acid (PFHpS)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorononanesulfonic acid (PFNS)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorododecanesulfonic acid (PFDoS)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	8.00	U	8.00	2.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	8.00	U	8.00	2.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	8.00	U	8.00	2.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorooctanesulfonamide (PFOSA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.62	ng/L		01/31/25 08:55	01/31/25 14:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.52	ng/L		01/31/25 08:55	01/31/25 14:00	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	U	20.0	5.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	U	20.0	5.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.00	U	8.00	2.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.00	U	8.00	2.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	U	4.00	1.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	U	4.00	1.22	ng/L		01/31/25 08:55	01/31/25 14:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	8.00	U	8.00	2.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	8.00	U	8.00	2.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.00	U	4.00	1.00	ng/L		01/31/25 08:55	01/31/25 14:00	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	10.0	U	10.0	2.50	ng/L		01/31/25 08:55	01/31/25 14:00	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	50.0	U	50.0	12.5	ng/L		01/31/25 08:55	01/31/25 14:00	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50.0	U	50.0	14.9	ng/L		01/31/25 08:55	01/31/25 14:00	1
Perfluorodecanesulfonic acid (PFDS)	2.00	U	2.00	0.50	ng/L		01/31/25 08:55	01/31/25 14:00	1

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

Lab Sample ID: MB 240-643167/1-A
Matrix: Water
Analysis Batch: 643184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	U	4.00	1.00	ng/L		01/31/25 08:55	01/31/25 14:00	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*78.8*		*10 - 130*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C5 PFPeA	*85.0*		*35 - 150*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C5 PFHxA	*74.3*		*55 - 150*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C4 PFHpA	*74.3*		*55 - 150*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C8 PFOA	*75.7*		*60 - 140*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C9 PFNA	*80.9*		*55 - 140*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C6 PFDA	*71.4*		*50 - 140*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C7 PFUnA	*69.6*		*30 - 140*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C2 PFTeDA	*75.6*		*10 - 130*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C3 PFBS	*77.7*		*55 - 150*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C3 PFHxS	*79.4*		*55 - 150*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C8 PFOS	*70.9*		*45 - 140*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C8 FOSA	*72.3*		*30 - 130*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
d3-NMeFOSAA	*71.2*		*45 - 200*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
d5-NEtFOSAA	*88.8*		*10 - 200*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
M2-4:2 FTS	*78.3*		*60 - 200*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
M2-6:2 FTS	*77.2*		*60 - 200*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
M2-8:2 FTS	*76.0*		*50 - 200*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C3 HFPO-DA	*78.3*		*25 - 160*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
d7-N-MeFOSE-M	*54.2*		*10 - 150*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
d9-N-EtFOSE-M	*53.6*		*10 - 150*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
d5-NEtPFOSA	*63.6*		*10 - 130*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
d3-NMePFOSA	*58.1*		*15 - 130*	*01/31/25 08:55*	*01/31/25 14:00*	*1*
13C2-PFDoDA	*69.7*		*10 - 150*	*01/31/25 08:55*	*01/31/25 14:00*	*1*

Lab Sample ID: LCS 240-643167/3-A
Matrix: Water
Analysis Batch: 643184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	100	100.3		ng/L		100	58 - 148
Perfluoropentanoic acid (PFPeA)	50.0	47.99		ng/L		96	54 - 152
Perfluorohexanoic acid (PFHxA)	25.0	24.49		ng/L		98	55 - 152
Perfluoroheptanoic acid (PFHpA)	25.0	27.42		ng/L		110	54 - 154
Perfluorooctanoic acid (PFOA)	25.0	24.56		ng/L		98	52 - 161
Perfluorononanoic acid (PFNA)	25.0	24.21		ng/L		97	59 - 149
Perfluorodecanoic acid (PFDA)	25.0	26.68		ng/L		107	52 - 147
Perfluoroundecanoic acid (PFUnA)	25.0	25.99		ng/L		104	48 - 159
Perfluorododecanoic acid (PFDoA)	25.0	26.49		ng/L		106	64 - 142
Perfluorotridecanoic acid (PFTrDA)	25.0	24.80		ng/L		99	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	25.0	24.28		ng/L		97	47 - 161

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

Lab Sample ID: LCS 240-643167/3-A
Matrix: Water
Analysis Batch: 643184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanesulfonic acid (PFBS)	22.2	22.04		ng/L		99	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	23.5	22.91		ng/L		98	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	22.8	21.59		ng/L		95	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	23.9	24.05		ng/L		101	55 - 152
Perfluorooctanesulfonic acid (PFOS)	23.3	23.21		ng/L		100	58 - 149
Perfluorononanesulfonic acid (PFNS)	24.1	25.74		ng/L		107	52 - 148
Perfluorododecanesulfonic acid (PFDoS)	24.3	23.51		ng/L		97	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	93.8	94.30		ng/L		101	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	95.2	94.41		ng/L		99	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	96.0	93.48		ng/L		97	63 - 152
Perfluorooctanesulfonamide (PFOSA)	25.0	25.82		ng/L		103	61 - 148
N-methylperfluorooctane sulfonamide (NMeFOSA)	25.0	27.10		ng/L		108	63 - 145
N-ethylperfluorooctane sulfonamide (NEtFOSA)	25.0	24.14		ng/L		97	65 - 139
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.0	26.02		ng/L		104	58 - 144
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.0	26.87		ng/L		107	59 - 146
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	250	248.3		ng/L		99	71 - 136
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	250	247.9		ng/L		99	69 - 137
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	104.8		ng/L		105	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.6	99.85		ng/L		106	68 - 146
Perfluoro-4-methoxybutanoic acid (PFMBA)	50.0	47.08		ng/L		94	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50.0	54.94		ng/L		110	48 - 161
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.4	97.28		ng/L		104	56 - 156
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.4	96.72		ng/L		102	46 - 156
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44.6	47.35		ng/L		106	56 - 151
3-Perfluoropropylpropanoic acid (3:3 FTCA)	125	116.5		ng/L		93	62 - 129
3-Perfluoropentylpropanoic acid (5:3 FTCA)	625	638.5		ng/L		102	63 - 134
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	625	559.7		ng/L		90	50 - 138
Perfluorodecanesulfonic acid (PFDS)	24.1	25.18		ng/L		104	51 - 147

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

Lab Sample ID: LCS 240-643167/3-A
Matrix: Water
Analysis Batch: 643184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643167

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoro-3-methoxypropanoic acid (PFMPA)			50.0	47.78		ng/L		96	51 - 145		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*74.8*		*10 - 130*
13C5 PFPeA	*83.3*		*40 - 150*
13C5 PFHxA	*76.2*		*40 - 150*
13C4 PFHpA	*73.2*		*40 - 150*
13C8 PFOA	*76.4*		*30 - 140*
13C9 PFNA	*79.9*		*30 - 140*
13C6 PFDA	*73.4*		*20 - 140*
13C7 PFUnA	*72.0*		*20 - 140*
13C2 PFTeDA	*72.7*		*10 - 130*
13C3 PFBS	*76.8*		*25 - 150*
13C3 PFHxS	*80.5*		*25 - 150*
13C8 PFOS	*74.0*		*20 - 140*
13C8 FOSA	*71.1*		*10 - 130*
d3-NMeFOSAA	*68.6*		*10 - 200*
d5-NEtFOSAA	*91.4*		*10 - 200*
M2-4:2 FTS	*81.5*		*25 - 200*
M2-6:2 FTS	*78.4*		*25 - 200*
M2-8:2 FTS	*78.1*		*25 - 200*
13C3 HFPO-DA	*76.3*		*25 - 160*
d7-N-MeFOSE-M	*55.3*		*10 - 150*
d9-N-EtFOSE-M	*51.1*		*10 - 150*
d5-NEtPFOSA	*61.2*		*10 - 130*
d3-NMePFOSA	*57.9*		*10 - 130*
13C2-PFDoDA	*66.5*		*10 - 150*

Lab Sample ID: LLCS 240-643167/2-A
Matrix: Water
Analysis Batch: 643184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643167

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorobutanoic acid (PFBA)			8.00	8.444		ng/L		106	44 - 157		
Perfluoropentanoic acid (PFPeA)			4.00	3.987	J	ng/L		100	57 - 148		
Perfluorohexanoic acid (PFHxA)			2.00	2.214		ng/L		111	62 - 149		
Perfluoroheptanoic acid (PFHpA)			2.00	2.276		ng/L		114	56 - 150		
Perfluorooctanoic acid (PFOA)			2.00	2.310		ng/L		116	57 - 161		
Perfluorononanoic acid (PFNA)			2.00	2.003		ng/L		100	53 - 157		
Perfluorodecanoic acid (PFDA)			2.00	2.088		ng/L		104	43 - 158		
Perfluoroundecanoic acid (PFUnA)			2.00	2.053		ng/L		103	50 - 155		
Perfluorododecanoic acid (PFDoA)			2.00	2.159		ng/L		108	60 - 141		
Perfluorotridecanoic acid (PFTrDA)			2.00	2.065		ng/L		103	52 - 140		
Perfluorotetradecanoic acid (PFTeDA)			2.00	1.913	J	ng/L		96	52 - 156		

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

Lab Sample ID: LLCS 240-643167/2-A
Matrix: Water
Analysis Batch: 643184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643167

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanesulfonic acid (PFBS)	1.78	1.772	J	ng/L		100	63 - 145
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.950	J	ng/L		104	58 - 144
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.947	J	ng/L		107	44 - 158
Perfluoroheptanesulfonic acid (PFHpS)	1.91	2.045		ng/L		107	51 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	2.278		ng/L		122	43 - 162
Perfluorononanesulfonic acid (PFNS)	1.92	2.134		ng/L		111	46 - 151
Perfluorododecanesulfonic acid (PFDoS)	1.94	2.001		ng/L		103	30 - 138
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	8.304		ng/L		111	52 - 158
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	9.643		ng/L		127	48 - 158
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	8.374		ng/L		109	46 - 165
Perfluorooctanesulfonamide (PFOSA)	2.00	2.129		ng/L		106	47 - 163
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.00	2.265		ng/L		113	54 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.00	1.922	J	ng/L		96	49 - 156
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.035		ng/L		102	32 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.102		ng/L		105	51 - 154
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	22.31		ng/L		112	56 - 151
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	21.10		ng/L		105	60 - 147
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.00	9.301		ng/L		116	58 - 154
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	7.929	J	ng/L		105	61 - 148
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.676	J	ng/L		92	49 - 154
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.086		ng/L		102	47 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	7.47	7.209	J	ng/L		96	44 - 167
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	7.55	7.374	J	ng/L		98	36 - 158
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	3.859	J	ng/L		108	56 - 144
3-Perfluoropropylpropanoic acid (3:3 FTCA)	10.0	9.943	J	ng/L		99	32 - 161
3-Perfluoropentylpropanoic acid (5:3 FTCA)	50.0	52.50		ng/L		105	39 - 156
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50.0	45.68	J	ng/L		91	36 - 149
Perfluorodecanesulfonic acid (PFDS)	1.93	2.037		ng/L		106	50 - 144

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

Lab Sample ID: LLCS 240-643167/2-A
Matrix: Water
Analysis Batch: 643184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643167

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoro-3-methoxypropanoic acid (PFMPA)			4.00	4.001		ng/L		100	48 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*68.5*		*10 - 130*
13C5 PFPeA	*77.4*		*40 - 150*
13C5 PFHxA	*68.3*		*40 - 150*
13C4 PFHpA	*67.6*		*40 - 150*
13C8 PFOA	*69.4*		*30 - 140*
13C9 PFNA	*72.0*		*30 - 140*
13C6 PFDA	*64.2*		*20 - 140*
13C7 PFUnA	*61.2*		*20 - 140*
13C2 PFTeDA	*66.4*		*10 - 130*
13C3 PFBS	*71.3*		*25 - 150*
13C3 PFHxS	*72.4*		*25 - 150*
13C8 PFOS	*65.9*		*20 - 140*
13C8 FOSA	*64.5*		*10 - 130*
d3-NMeFOSAA	*64.0*		*10 - 200*
d5-NEtFOSAA	*84.2*		*10 - 200*
M2-4:2 FTS	*72.9*		*25 - 200*
M2-6:2 FTS	*70.5*		*25 - 200*
M2-8:2 FTS	*67.5*		*25 - 200*
13C3 HFPO-DA	*72.4*		*25 - 160*
d7-N-MeFOSE-M	*52.6*		*10 - 150*
d9-N-EtFOSE-M	*47.5*		*10 - 150*
d5-NEtPFOSA	*51.9*		*10 - 130*
d3-NMePFOSA	*50.2*		*10 - 130*
13C2-PFDoDA	*62.1*		*10 - 150*

LCMS

Prep Batch: 642719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319159-1	MW-02_20250122	Total/NA	Water	1633	
460-319159-2	MW-01_20250122	Total/NA	Water	1633	
460-319159-3	MW-01X_20250122	Total/NA	Water	1633	
460-319159-4	FB-01_20250122	Total/NA	Water	1633	
MB 240-642719/1-A	Method Blank	Total/NA	Water	1633	
LCS 240-642719/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 240-642719/2-A	Lab Control Sample	Total/NA	Water	1633	
460-319159-2 MS	MW-01_20250122	Total/NA	Water	1633	
460-319159-2 MSD	MW-01_20250122	Total/NA	Water	1633	
460-319159-1 DU	MW-02_20250122	Total/NA	Water	1633	

Analysis Batch: 642732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319159-1	MW-02_20250122	Total/NA	Water	1633	642719
460-319159-2	MW-01_20250122	Total/NA	Water	1633	642719
460-319159-3	MW-01X_20250122	Total/NA	Water	1633	642719
460-319159-4	FB-01_20250122	Total/NA	Water	1633	642719
MB 240-642719/1-A	Method Blank	Total/NA	Water	1633	642719
LCS 240-642719/3-A	Lab Control Sample	Total/NA	Water	1633	642719
LLCS 240-642719/2-A	Lab Control Sample	Total/NA	Water	1633	642719
460-319159-2 MS	MW-01_20250122	Total/NA	Water	1633	642719
460-319159-2 MSD	MW-01_20250122	Total/NA	Water	1633	642719
460-319159-1 DU	MW-02_20250122	Total/NA	Water	1633	642719

Prep Batch: 643167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319401-1	MW-03_20250127	Total/NA	Water	1633	
MB 240-643167/1-A	Method Blank	Total/NA	Water	1633	
LCS 240-643167/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 240-643167/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 643184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319401-1	MW-03_20250127	Total/NA	Water	1633	643167
MB 240-643167/1-A	Method Blank	Total/NA	Water	1633	643167
LCS 240-643167/3-A	Lab Control Sample	Total/NA	Water	1633	643167
LLCS 240-643167/2-A	Lab Control Sample	Total/NA	Water	1633	643167

Lab Chronicle

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-02_20250122
Lab Sample ID: 460-319159-1
Date Collected: 01/22/25 10:33
Matrix: Water
Date Received: 01/22/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			642719	JVB4	EET CLE	01/27/25 13:46
Total/NA	Analysis	1633		1	642732	LD	EET CLE	01/28/25 04:51

Client Sample ID: MW-01_20250122
Lab Sample ID: 460-319159-2
Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			642719	JVB4	EET CLE	01/27/25 13:46
Total/NA	Analysis	1633		1	642732	LD	EET CLE	01/28/25 05:08

Client Sample ID: MW-01X_20250122
Lab Sample ID: 460-319159-3
Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			642719	JVB4	EET CLE	01/27/25 13:46
Total/NA	Analysis	1633		1	642732	LD	EET CLE	01/28/25 05:58

Client Sample ID: FB-01_20250122
Lab Sample ID: 460-319159-4
Date Collected: 01/22/25 12:05
Matrix: Water
Date Received: 01/22/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			642719	JVB4	EET CLE	01/27/25 13:46
Total/NA	Analysis	1633		1	642732	LD	EET CLE	01/28/25 06:14

Client Sample ID: MW-03_20250127
Lab Sample ID: 460-319401-1
Date Collected: 01/27/25 14:30
Matrix: Water
Date Received: 01/27/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			643167	JVB4	EET CLE	01/31/25 08:55
Total/NA	Analysis	1633		1	643184	LD	EET CLE	01/31/25 15:23

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

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	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Method Summary

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
1633	Solid-Phase Extraction (SPE)	EPA	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: AKRF Inc
Job ID: 460-319159-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-319159-1	MW-02_20250122	Water	01/22/25 10:33	01/22/25 18:00
460-319159-2	MW-01_20250122	Water	01/22/25 13:35	01/22/25 18:00
460-319159-3	MW-01X_20250122	Water	01/22/25 12:00	01/22/25 18:00
460-319159-4	FB-01_20250122	Water	01/22/25 12:05	01/22/25 18:00
460-319401-1	MW-03_20250127	Water	01/27/25 14:30	01/27/25 18:00

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Phone 732-549-3900 Fax 732-549-3679

Chain of Custody Record

NY 222

eurofins

Client Information	Sampler: Mike Bates / Isabella Logovich	Lab PM: Flannery Elizabeth J	Carrier Tracking No(s):	COC No: 460-190530-124699 1
Client Contact: ~~Michael Bates~~ Patrick Diggins	Phone:	E-Mail: Elizabeth.Flannery@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 1
Company: AKRF Inc	PWSID:	Analysis Requested		Job #: 319159
Address: 440 Park Avenue South 7th Floor	Due Date Requested:			Preservation Codes: N - None
City: New York	TAT Requested (days):			
State, Zip: NY, 10016	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 200112			
Email: ~~mbates@akrf.com~~ JDiggins@AKRF.com	WO #:			
Project Name: Bud North - 2-21 Malt Drive, Long Island	Project #: 46045611			
Site: Bud North	SSOW#:			

460-319159 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - 1633 Standard List of 40	Total Num	Special Instructions/Note:
			Preservation Code:				N		
MW-02_20250122	1/22/25	1033	G	Water			X	3	
MW-01_20250122		1335		Water			X	9	
MW-0X_20250122		1200		Water			X	3	
FB-01_20250122		1205		Water			X	3	
				Water					
				Water					
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: AKRF EQuIS, CAT B, Keep SDG open

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Mike Bates	1/22/25 1500	AKRF		1/22/25	ET
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				1-22-25 16:00	ET
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1-22-25 18:00	ET		1/22/25 1800	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No: no/cs RLG

Cooler Temperature(s) °C and Other Remarks: 3.5/3.7-4.2/4.4-5.7/5.9-5.3/5.5-5.5/5.7

Ver 10/10 2024

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: B19159

Number of Coolers: 5 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.5 °C	3.7 °C	Cooler #4:	5.3 °C	5.5 °C	Cooler #7:	°C	°C
Cooler #2:	4.2 °C	4.4 °C	Cooler #5:	5.5 °C	5.7 °C	Cooler #8:	°C	°C
Cooler #3:	5.7 °C	5.9 °C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 1-22-25

Chain of Custody Record

674934 eurofins | Environment Testing America

Address ____________

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact						Site Contact: Mike Bates	Date: 1/27/25	COC No:
Company Name: AKRF	Project Manager: Patrick Diggins					Lab Contact:	Carrier:	1 of 1 COCs
Address: 440 Park Ave S	Tel/Email: jDiggins@AKRF.com							Sampler:
City/State/Zip: NY NY 10016	Analysis Turnaround Time							For Lab Use Only:
Phone:	☐ CALENDAR DAYS ☐ WORKING DAYS							Walk-in Client:
Fax:	TAT if different from Below ____							Lab Sampling
Project Name: BLD North	☐ 2 weeks ☑ 1 week ☐ 2 days ☐ 1 day							Job / SDG No: 319401
Site: 2-21 malt Drive, LIC, NY								
PO# 209117								

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	1633 Standard List of PFAS	Sample Specific Notes:
MW-03_20250127	1/27/25	1430	G	GW	3			X	-1

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: AKRF EQuIS, CAT B, Close SDG

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ Therm ID No. ____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Mike Bates [signature]	AKRF	1/27/25 1300	[signature]	EET	1-27-25 16:30
[signature]	EET 1-27-25	18:00	[signature]	EET [signature]	1/27/25 1800
			Received in Laboratory by:		

no/cs ZR #9   2.3.25

460-319401 Chain of Custody

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 319401

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.3°C	2.5°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below*

Sample No(s). adjusted: _____

Preservative Name/Conc. _____ Volume of Preservative used (ml) _____

Lot # of Preservative(s)* _____ Expiration Date _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

**Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: MA Date: 1-27-25

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

3.0 | 2.9

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Flannery Elizabeth J	Carrier Tracking No(s): N/A	COC No: 460-73186.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Elizabeth.Flannery@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 #: 460-319159-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 1/29/2025			
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: Bud North 2-21 Malt Drive, Long Island	Project #: 46045611			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes.

Other: N/A

PFAS 2084-23

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-02_20250122 (460-319159-1)	1/22/25	10:33 Eastern	G	Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III IV Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/23/25 1900	ET FDL	KATHARINE MARTIN	1/24/25 1005	EUE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

2/3/2025

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client Eurofins Edison Site Name _____ Cooler unpacked by: KMartin

Cooler Received on 11/24/25 Opened on 11/24/25

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. Bubble Wrap Foam Plastic Bag None Other _____

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 18 (CF -0.1 °C) Observed Cooler Temp. 3.0 °C Corrected Cooler Temp 2.9 °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# HC448976
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
17 Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

19 SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s). _____

VOA Sample Preservation - Date/Time VOAs Frozen _____

ORIGIN ID LDJA (732) 549
KENNETH RIVERA
EUROFINS EDISON
777 NEW DURHAM ROAD

EDISON NJ 08817
UNITED STATES US

SHIP DATE 23JAN25
ACTWGT: 46.70 LB
CAD: 0619092/CAFE3855

BILL SENDER

4450 FRI 01/24 08:40
180 S VAN BUREN AVE
PRIORITY OVERNIGHT
-3051
SP:PD:106:Y
44203-3543-80
BARBERTON,OH
432015039293

TO **SHIPPING/RECEIVING**
EUROFINS ENVIRONMENT TESTING NORTH
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396 REF: S460-190682
PO: YE8

FedEx Express
E

TRK# 0201 **4320 1503 9293**

FRI - 24 JAN 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

Part # 159469-434 MTW EXP 04/25

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Flannery Elizabeth J	Carrier Tracking No(s): N/A	COC No: 460-73191 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Elizabeth.Flannery@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 #: 460-319159-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 1/29/2025			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: Bud North 2-21 Malt Drive, Long Island	Project #: 46045611			
Site: N/A	SSOW#: N/A			Other: N/A

PFAS 2084-23

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-01_20250122 (460-319159-2)	1/22/25	13:35 Eastern	G	Water			X	3	
MW-01_20250122 (460-319159-2MS)	1/22/25	13:35 Eastern	G	Water			X	3	
MW-01_20250122 (460-319159-2MSD)	1/22/25	13:35 Eastern	G	Water			X	3	
MW-01X_20250122 (460-319159-3)	1/22/25	12:00 Eastern	G	Water			X	3	
FB-01_20250122 (460-319159-4)	1/22/25	12:05 Eastern	G	Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III IV Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/23/25 1900		KATHARINE MARTIN	1/24/25 1005	EUE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

2/3/2025

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client Eurofins Edison Site Name

Cooler Received on 11/24/25 Opened on 11/24/25

Cooler unpacked by: KMartin

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used. Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 18 (CF -0.1 °C) Observed Cooler Temp 3.0 °C Corrected Cooler Temp. 2.9 °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# HC448976
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container

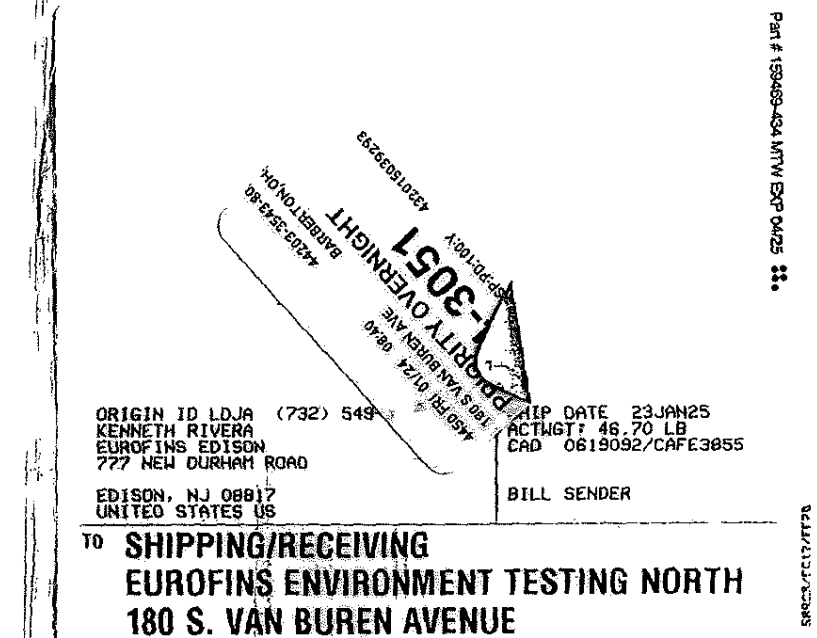
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s).

VOA Sample Preservation - Date/Time VOAs Frozen.



TO **SHIPPING/RECEIVING**
EUROFINS ENVIRONMENT TESTING NORTH
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396 REF: S460-190682
PO: YES

FedEx Express

FRI - 24 JAN 10:30A
TRK# 0201 **4320 1503 9293** **PRIORITY OVERNIGHT**

NX CAKA

44203
OH-US **CLE**

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Flannery Elizabeth J	Carrier Tracking No(s): N/A	COC No: 460-73223.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Elizabeth.Flannery@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 #: 460-319401 1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 2/3/2025			
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Bud North 2-21 Malt Drive, Long Island	Project #: 46045611			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes.

Other: N/A

R84-24

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE 1633 Standard List of 40	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-03_20250127 (460-319401 1)	1/27/25	14:30 Eastern	G	Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/28/25 1900			1/30/25 0945	
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 Eurofins Site Name

Cooler unpacked by: 25

Cooler Received on 1/30/25 Opened on 1/30/25

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # 1 C Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 18 (CF -0.1 °C) Observed Cooler Temp 2.4 °C Corrected Cooler Temp. 2.3 °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# HC448976
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen

ORIGIN ID:LDJA (732) 549-3900
KENNETH RIVERA
EUROFINS EDISON
777 NEW DURHAM ROAD
EDISON, NJ 08817
UNITED STATES US

SHIP DATE 28JAN25
ACTWGT 40.45 LB
CAD 0619092/CAFE3855

BILL SENDER

TO **SHIPPING/RECEIVING**
EUROFINS ENVIRONMENT TESTING NORTH
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF 8460-190846

FedEx
Express

E

J243024070401

TRK# 0201 **4320 1503 9499**

WED - 29 JAN 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US **CLE**

085
Y OVERNIGHT
N OH
BUREN AVE
ENVIRONMENT
SP-PD-100Y

Part # 159469-434 MTWEXP 04/25

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-319159-1

Login Number: 319159

List Source: Eurofins Edison

List Number: 1

Creator: Rivera, Kenneth

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	
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: AKRF Inc

Job Number: 460-319159-1

Login Number: 319401

List Source: Eurofins Edison

List Number: 1

Creator: Lysy, Susan

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	
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").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Diggins
AKRF Inc
440 Park Avenue South
7th Floor
New York, New York 10016

Generated 2/6/2025 11:41:53 AM

JOB DESCRIPTION

Bud North - 2-21 Malt Drive, Long Island

JOB NUMBER

460-319158-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

Job Notes

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

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

Authorization

Generated
2/6/2025 11:41:53 AM

Authorized for release by
Elizabeth Flannery, Project Manager I
Elizabeth.Flannery@et.eurofinsus.com
(732)549-3900

Table of Contents

Definitions/Glossary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	MS or MSD is outside acceptance limits.
*	Duplicate RPD exceeds control limits
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
*	MS or MSD is outside acceptance limits.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
*	Surrogate is outside acceptance limits.
*	Duplicate RPD exceeds control limits
J	Indicates an estimated value.
U	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.
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Sample result is greater than the MDL but below the CRDL
U	Indicates 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: 460-319158-1 **Eurofins Edison**

CASE NARRATIVE

Client: AKRF Inc

Project: Bud North - 2-21 Malt Drive, Long Island

Report Number: 460-319158-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 1/22/2025 6:00 PM and 1/27/2025 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.5°C, 3.7°C, 4.4°C, 5.5°C, 5.7°C and 5.9°C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-01_20250122 (460-319158-2). Sample ID on the COC is MW-01_20250122 but MW-03_20250122 on some of the containers(but packed together with the other MW-01 containers).

Per laboratory policy, the Trip Blank sample date/time was added to reflect the latest sample date/time of the sampling event. TB-01_20250122 (460-319158-5)

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)
Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3), FB-01_20250122 (460-319158-4) and TB-01_20250122 (460-319158-5) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 01/23/2025 and 01/30/2025.

The continuing calibration verification (CCV) associated with batch 460-1017719 recovered above the upper control limit for Chloromethane and Methyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-1018632 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1017719 recovered outside control limits for the following analyte: Methyl acetate. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Methyl acetate failed the recovery criteria high for LCS 460-1017719/4. Methyl acetate failed the recovery criteria high for LCSD 460-1017719/5.

1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1-Dichloroethene and Cyclohexane failed the recovery criteria low for the MS of sample MW-01_20250122MS (460-319158-2) in batch 460-1017719. Chloroethane and Methyl acetate failed the recovery criteria high.

1,1,2,2-Tetrachloroethane, 2-Hexanone, 4-Methyl-2-pentanone (MIBK) and Methyl acetate failed the recovery criteria high for the MSD of sample MW-01_20250122MSD (460-319158-2) in batch 460-1017719. Bromomethane and Chloroethane exceeded the RPD limit.

Refer to the QC report for details.

No other difficulties were encountered during the Volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270E. The samples were prepared and analyzed on 01/23/2025 and 01/28/2025.

The continuing calibration verification (CCV) analyzed in batch 460-1017857 was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-1018391 was outside the method criteria for the following analyte(s): 4-Nitroaniline, Benzaldehyde and Di-n-octyl phthalate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample duplicate (LCSD) for preparation batch 460-1018383 and analytical batch 460-1018391 recovered outside control limits for the following analytes: Atrazine. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for preparation batch 460-1017771 and analytical batch 460-1017857 recovered outside control limits for the following analytes: Atrazine, Benzaldehyde and Hexachlorocyclopentadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-1017771 and analytical batch 460-1017857 recovered outside control limits for the following analytes: Atrazine and Benzaldehyde.

Atrazine, Benzaldehyde and Hexachlorocyclopentadiene failed the recovery criteria high for LCS 460-1017771/2-A. Atrazine and Benzaldehyde exceeded the RPD limit for LCSD 460-1017771/3-A. Atrazine failed the recovery criteria high for LCSD 460-1018383/3-A.

Several analytes failed the recovery criteria high for the MS of sample MW-01_20250122MS (460-319158-2) in batch 460-1017857.

2,4-Dimethylphenol, Atrazine and Benzaldehyde failed the recovery criteria high for the MSD of sample MW-01_20250122MSD (460-319158-2) in batch 460-1017857.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS - SELECTED ION MODE (SIM) - ISOTOPE DILUTION - 1,4 DIOXANE

Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4) were analyzed for semivolatile organic compounds -

Job ID: 460-319158-1 (Continued) Eurofins Edison

Selected Ion Mode (SIM) - Isotope Dilution - 1,4 Dioxane in accordance with EPA SW-846 Method 8270E SIM 1,4Dioxane. The samples were prepared on 01/23/2025 and 01/28/2025 and analyzed on 01/23/2025, 01/24/2025 and 01/28/2025.

No difficulties were encountered during the 1,4 Dioxane analysis.

All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS
Sample MW-03_20250127 (460-319369-1) was analyzed for diesel range organics in accordance with EPA SW-846 Method 8015D - DRO. The samples were prepared and analyzed on 01/31/2025.

No difficulties were encountered during the DRO analysis.

All quality control parameters were within the acceptance limits.

PESTICIDES
Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 01/23/2025 and 01/28/2025 and analyzed on 01/24/2025 and 01/28/2025.

The following samples required a copper clean-up, via EPA Method 3660B, to reduce matrix interferences: MW-02_20250122 (460-319158-1), MW-01_20250122 (460-319158-2), MW-01_20250122 (460-319158-2[MS]), MW-01_20250122 (460-319158-2[MSD]), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4).

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)
Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 01/23/2025 and 01/28/2025 and analyzed on 01/24/2025 and 01/28/2025.

The following samples required a copper clean-up, via EPA Method 3660B, to reduce matrix interferences: MW-02_20250122 (460-319158-1), MW-01_20250122 (460-319158-2), MW-01_20250122 (460-319158-2[MS]), MW-01_20250122 (460-319158-2[MSD]), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4).

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

HERBICIDES
Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4) were analyzed for Herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 01/23/2025 and 01/28/2025 and analyzed on 01/24/2025 and 01/28/2025.

The closing continuing calibration verification (CCV) standard associated with batch 460-1017895 failed to meet acceptance limits (biased low) for surrogate 2,4-Dichlorophenylacetic acid on the primary column but within limits on the confirmation: therefore data have been reported. (CCV 460-1017895/28)

The continuing calibration verification (CCV) associated with batch 460-1018301 recovered above the upper control limit for 2,4,5-T and Silvex (2,4,5-TP). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 460-1018301/23) and (CCV 460-1018301/25).

Surrogate 2,4-Dichlorophenylacetic acid recovery for the following samples were outside the upper control limit: MW-01_20250122 (460-319158-2), MW-01_20250122 (460-319158-2[MS]) and MW-01_20250122 (460-319158-2[MSD]). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The 2,4-Dichlorophenylacetic acid surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: MW-03_20250127 (460-319369-1). The recovery is within acceptance limits on

the other column, indicating that the extraction process was in control.

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for MW-03_20250127 (460-319369-1).

2,4,5-T, 2,4-D and Silvex (2,4,5-TP) exceeded the RPD limit for the MSD of sample MW-01_20250122MSD (460-319158-2) in batch 460-1017895.

Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

MA EXTRACTABLE PET HCS

Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4) were analyzed for MA Extractable Pet HCs in accordance with MAEPH. The samples were prepared on 01/28/2025 and 01/30/2025 and analyzed on 01/29/2025, 02/03/2025 and 02/04/2025.

The breakthrough for naphthalene and 2-methylnaphthalene in the LCS and LCSD is <1%. The method requirement for breakthrough is 5% or less. MW-02_20250122 (460-319158-1), MW-01_20250122 (460-319158-2), MW-01_20250122 (460-319158-2[MS]), MW-01_20250122 (460-319158-2[MSD]), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4)

The continuing calibration verification (CCV) associated with batch 410-600460 recovered above the upper control limit for Benzo[k]fluoranthene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. MW-02_20250122 (460-319158-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4).

The breakthrough for naphthalene and 2-methylnaphthalene in the LCS and LCSD is <1%. The method requirement for breakthrough is 5% or less. MW-03_20250127 (460-319369-1)

No other difficulties were encountered during the MA Extract Pet HCs analysis.

All other quality control parameters were within the acceptance limits.

METALS - TOTAL (ICP/MS)

Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4) were analyzed for Metals - Total (ICP/MS) in accordance with EPA SW-846 Method 6020B - Total. The samples were prepared and analyzed on 01/27/2025 and 01/30/2025.

Aluminum was detected in method blank MB 460-1018770/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Potassium and Sodium failed the recovery criteria low for the MS of sample 460-319154-3 in batch 460-1018820.

Selenium failed the recovery criteria low for the MS of sample MW-01_20250122MS (460-319158-2) in batch 460-1018258. Calcium, Potassium and Sodium failed the recovery criteria high.

Selenium failed the recovery criteria low for the MSD of sample MW-01_20250122MSD (460-319158-2) in batch 460-1018258. Calcium, Potassium and Sodium failed the recovery criteria high.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

MERCURY

Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4) were analyzed for mercury in accordance with EPA

SW-846 Methods 7470A. The samples were prepared and analyzed on 01/23/2025 and 01/29/2025.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM
Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 01/22/2025 and 01/28/2025.

Sample MW-01_20250122 (460-319158-2MS)[5x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the hexchrome Cr+6(VI) analysis.

All quality control parameters were within the acceptance limits.

TRIVALENT CHROMIUM
Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4) were analyzed for trivalent chromium in accordance with EPA SW-846 7196A_CR3 by Calculation. The samples were analyzed on 01/28/2025 and 01/29/2025.

No difficulties were encountered during the cr3 analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE
Samples MW-02_20250122 (460-319158-1), MW-03_20250127 (460-319369-1), MW-01_20250122 (460-319158-2), MW-0X_20250122 (460-319158-3) and FB-01_20250122 (460-319158-4) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 01/24/2025 and 01/30/2025.

Cyanide, Total failed the recovery criteria low for the MS of sample MW-01_20250122MS (460-319158-2) in batch 460-1018045.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Samples MW-02_20250122 (460-319158-1)[3X], MW-01_20250122 (460-319158-2)[3X] and MW-0X_20250122 (460-319158-3)[3X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the cyanide analysis.

All other quality control parameters were within the acceptance limits.

Detection Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-02_20250122
Lab Sample ID: 460-319158-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.3		1.0	0.20	ug/L	1		8260D	Total/NA
Ethylbenzene	0.73	J	1.0	0.30	ug/L	1		8260D	Total/NA
Isopropylbenzene	0.35	J	1.0	0.34	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	0.70	J	1.0	0.30	ug/L	1		8260D	Total/NA
o-Xylene	0.59	J	1.0	0.36	ug/L	1		8260D	Total/NA
Toluene	0.95	J	1.0	0.38	ug/L	1		8260D	Total/NA
1,1'-Biphenyl	1.3	J	10	1.2	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	2.6	J	10	0.53	ug/L	1		8270E	Total/NA
Acenaphthene	4.6	J	10	1.1	ug/L	1		8270E	Total/NA
Anthracene	3.6	J	10	1.3	ug/L	1		8270E	Total/NA
Carbazole	7.7	J	10	0.68	ug/L	1		8270E	Total/NA
Dibenzofuran	11		10	1.1	ug/L	1		8270E	Total/NA
Fluoranthene	6.0	J	10	0.84	ug/L	1		8270E	Total/NA
Fluorene	13		10	0.91	ug/L	1		8270E	Total/NA
Naphthalene	12		2.0	0.54	ug/L	1		8270E	Total/NA
Phenanthrene	38		10	1.3	ug/L	1		8270E	Total/NA
Pyrene	3.5	J	10	1.6	ug/L	1		8270E	Total/NA
Anthracene	5.6		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Fluoranthene	6.7		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Acenaphthylene	4.2		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Acenaphthene	6.1		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Phenanthrene	35		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Fluorene	13		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Naphthalene	16		1.9	1.9	ug/L	1		MA-EPH	Total/NA
2-Methylnaphthalene	3.4		1.9	1.9	ug/L	1		MA-EPH	Total/NA
C11-C22 Aromatics (unadjusted)	220		38	38	ug/L	1		MA-EPH	Total/NA
C11-C22 Aromatics (Adjusted)	120		38	38	ug/L	1		MA-EPH	Total/NA
C9-C18 Aliphatics	29		29	29	ug/L	1		MA-EPH	Total/NA
Aluminum	25.7	J	40.0	11.7	ug/L	1		6020B	Total Recoverable
Arsenic	2.0		2.0	1.2	ug/L	1		6020B	Total Recoverable
Barium	53.1		4.0	0.93	ug/L	1		6020B	Total Recoverable
Calcium	198000		500	31.7	ug/L	1		6020B	Total Recoverable
Cobalt	1.4	J	4.0	0.41	ug/L	1		6020B	Total Recoverable
Iron	382		120	33.7	ug/L	1		6020B	Total Recoverable
Magnesium	24900		200	21.8	ug/L	1		6020B	Total Recoverable
Manganese	142		8.0	0.84	ug/L	1		6020B	Total Recoverable
Nickel	2.7	J	4.0	1.4	ug/L	1		6020B	Total Recoverable
Potassium	30100		200	83.3	ug/L	1		6020B	Total Recoverable
Sodium	201000		500	180	ug/L	1		6020B	Total Recoverable
Vanadium	1.4	J	4.0	1.0	ug/L	1		6020B	Total Recoverable
Cyanide, Total	561		30.0	12.0	ug/L	3		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-01_20250122
Lab Sample ID: 460-319158-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	36		5.0	1.9	ug/L	1		8260D	Total/NA
Acetone	53		5.0	4.4	ug/L	1		8260D	Total/NA
Benzene	9.0		1.0	0.20	ug/L	1		8260D	Total/NA
Carbon disulfide	2.9		1.0	0.82	ug/L	1		8260D	Total/NA
Ethylbenzene	1.9		1.0	0.30	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	1.7		1.0	0.30	ug/L	1		8260D	Total/NA
o-Xylene	1.6		1.0	0.36	ug/L	1		8260D	Total/NA
Toluene	1.9		1.0	0.38	ug/L	1		8260D	Total/NA
1,4-Dioxane	0.30		0.20	0.072	ug/L	1		8270E SIM ID	Total/NA
2,4-Dimethylphenol	0.72	J	10	0.62	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	2.2	J	10	0.53	ug/L	1		8270E	Total/NA
2-Methylphenol	1.0	J	10	0.67	ug/L	1		8270E	Total/NA
4-Methylphenol	0.83	J	10	0.65	ug/L	1		8270E	Total/NA
Acenaphthene	5.6	J	10	1.1	ug/L	1		8270E	Total/NA
Anthracene	2.8	J	10	1.3	ug/L	1		8270E	Total/NA
Carbazole	7.2	J	10	0.68	ug/L	1		8270E	Total/NA
Dibenzofuran	5.4	J	10	1.1	ug/L	1		8270E	Total/NA
Fluoranthene	4.2	J	10	0.84	ug/L	1		8270E	Total/NA
Fluorene	8.5	J	10	0.91	ug/L	1		8270E	Total/NA
Naphthalene	21		2.0	0.54	ug/L	1		8270E	Total/NA
Phenanthrene	18		10	1.3	ug/L	1		8270E	Total/NA
Phenol	0.94	J	10	0.29	ug/L	1		8270E	Total/NA
Pyrene	2.8	J	10	1.6	ug/L	1		8270E	Total/NA
Anthracene	2.3		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Fluoranthene	3.8		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Acenaphthene	3.7		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Phenanthrene	9.0		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Fluorene	5.0		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Naphthalene	8.3		1.9	1.9	ug/L	1		MA-EPH	Total/NA
C11-C22 Aromatics (unadjusted)	100		38	38	ug/L	1		MA-EPH	Total/NA
C11-C22 Aromatics (Adjusted)	60		38	38	ug/L	1		MA-EPH	Total/NA
Aluminum	316		40.0	11.7	ug/L	1		6020B	Total Recoverable
Antimony	3.1		2.0	0.48	ug/L	1		6020B	Total Recoverable
Arsenic	12.4		2.0	1.2	ug/L	1		6020B	Total Recoverable
Barium	74.5		4.0	0.93	ug/L	1		6020B	Total Recoverable
Calcium	203000		500	31.7	ug/L	1		6020B	Total Recoverable
Cobalt	1.4	J	4.0	0.41	ug/L	1		6020B	Total Recoverable
Copper	4.3		4.0	2.0	ug/L	1		6020B	Total Recoverable
Iron	829		120	33.7	ug/L	1		6020B	Total Recoverable
Lead	8.2		1.2	0.42	ug/L	1		6020B	Total Recoverable
Magnesium	41600		200	21.8	ug/L	1		6020B	Total Recoverable
Manganese	106		8.0	0.84	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample ID: MW-01_20250122 (Continued) — Lab Sample ID: 460-319158-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	6.0		4.0	1.4	ug/L	1		6020B	Total Recoverable
Potassium	59900		200	83.3	ug/L	1		6020B	Total Recoverable
Sodium	346000		500	180	ug/L	1		6020B	Total Recoverable
Vanadium	6.6		4.0	1.0	ug/L	1		6020B	Total Recoverable
Cyanide, Total	858		30.0	12.0	ug/L	3		9012B	Total/NA

Client Sample ID: MW-0X_20250122 — Lab Sample ID: 460-319158-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.3		1.0	0.20	ug/L	1		8260D	Total/NA
Ethylbenzene	0.77	J	1.0	0.30	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	0.72	J	1.0	0.30	ug/L	1		8260D	Total/NA
o-Xylene	0.61	J	1.0	0.36	ug/L	1		8260D	Total/NA
Toluene	0.90	J	1.0	0.38	ug/L	1		8260D	Total/NA
1,4-Dioxane	0.19	J	0.20	0.072	ug/L	1		8270E SIM ID	Total/NA
1,1'-Biphenyl	1.5	J	10	1.2	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	3.0	J	10	0.53	ug/L	1		8270E	Total/NA
Acenaphthene	5.5	J	10	1.1	ug/L	1		8270E	Total/NA
Anthracene	3.3	J	10	1.3	ug/L	1		8270E	Total/NA
Carbazole	10		10	0.68	ug/L	1		8270E	Total/NA
Dibenzofuran	13		10	1.1	ug/L	1		8270E	Total/NA
Fluoranthene	5.9	J	10	0.84	ug/L	1		8270E	Total/NA
Fluorene	14		10	0.91	ug/L	1		8270E	Total/NA
Naphthalene	16		2.0	0.54	ug/L	1		8270E	Total/NA
Phenanthrene	40		10	1.3	ug/L	1		8270E	Total/NA
Pyrene	3.6	J	10	1.6	ug/L	1		8270E	Total/NA
Anthracene	4.2		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Fluoranthene	5.2		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Acenaphthylene	3.5		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Acenaphthene	5.5		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Phenanthrene	26		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Fluorene	10		1.9	1.9	ug/L	1		MA-EPH	Total/NA
Naphthalene	16		1.9	1.9	ug/L	1		MA-EPH	Total/NA
2-Methylnaphthalene	2.9		1.9	1.9	ug/L	1		MA-EPH	Total/NA
C11-C22 Aromatics (unadjusted)	190		38	38	ug/L	1		MA-EPH	Total/NA
C11-C22 Aromatics (Adjusted)	110		38	38	ug/L	1		MA-EPH	Total/NA
Aluminum	24.8	J	40.0	11.7	ug/L	1		6020B	Total Recoverable
Arsenic	2.3		2.0	1.2	ug/L	1		6020B	Total Recoverable
Barium	51.6		4.0	0.93	ug/L	1		6020B	Total Recoverable
Calcium	196000		500	31.7	ug/L	1		6020B	Total Recoverable
Cobalt	1.4	J	4.0	0.41	ug/L	1		6020B	Total Recoverable
Iron	374		120	33.7	ug/L	1		6020B	Total Recoverable
Magnesium	24500		200	21.8	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-0X_20250122 (Continued) — Lab Sample ID: 460-319158-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	142		8.0	0.84	ug/L	1		6020B	Total Recoverable
Nickel	2.6	J	4.0	1.4	ug/L	1		6020B	Total Recoverable
Potassium	28900		200	83.3	ug/L	1		6020B	Total Recoverable
Sodium	198000		500	180	ug/L	1		6020B	Total Recoverable
Vanadium	1.4	J	4.0	1.0	ug/L	1		6020B	Total Recoverable
Cyanide, Total	579		30.0	12.0	ug/L	3		9012B	Total/NA

Client Sample ID: FB-01_20250122 — Lab Sample ID: 460-319158-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	34.0	J	500	31.7	ug/L	1		6020B	Total Recoverable
Cyanide, Total	8.1	J	10.0	4.0	ug/L	1		9012B	Total/NA

Client Sample ID: TB-01_20250122 — Lab Sample ID: 460-319158-5

No Detections.

Client Sample ID: MW-03_20250127 — Lab Sample ID: 460-319369-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	35		5.0	1.9	ug/L	1		8260D	Total/NA
Acetone	340		5.0	4.4	ug/L	1		8260D	Total/NA
Caprolactam	12		10	2.2	ug/L	1		8270E	Total/NA
Phenol	2.5	J	10	0.29	ug/L	1		8270E	Total/NA
Diesel Range Organics [C10-C28]	520		100	28	ug/L	1		8015D	Total/NA
Aluminum	1210	B	40.0	11.7	ug/L	1		6020B	Total Recoverable
Arsenic	6.5		2.0	1.2	ug/L	1		6020B	Total Recoverable
Barium	48.3		4.0	0.93	ug/L	1		6020B	Total Recoverable
Cadmium	1.1	J	2.0	0.38	ug/L	1		6020B	Total Recoverable
Calcium	254000		500	31.7	ug/L	1		6020B	Total Recoverable
Chromium	40.9		4.0	1.7	ug/L	1		6020B	Total Recoverable
Cobalt	28.8		4.0	0.41	ug/L	1		6020B	Total Recoverable
Copper	32.4		4.0	2.0	ug/L	1		6020B	Total Recoverable
Iron	66300		120	33.7	ug/L	1		6020B	Total Recoverable
Lead	34.5		1.2	0.42	ug/L	1		6020B	Total Recoverable
Magnesium	47600		200	21.8	ug/L	1		6020B	Total Recoverable
Manganese	1990		8.0	0.84	ug/L	1		6020B	Total Recoverable
Nickel	33.5		4.0	1.4	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-03_20250127 (Continued)
Lab Sample ID: 460-319369-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	31500		200	83.3	ug/L	1		6020B	Total Recoverable
Sodium	356000		500	180	ug/L	1		6020B	Total Recoverable
Vanadium	4.6		4.0	1.0	ug/L	1		6020B	Total Recoverable
Zinc	81.8		16.0	4.2	ug/L	1		6020B	Total Recoverable
Mercury	0.11	J	0.20	0.091	ug/L	1		7470A	Total/NA
Cr (III)	40.9		10.0	10.0	ug/L	1		7196A	Total/NA
Cyanide, Total	146		10.0	4.0	ug/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-02_20250122
Lab Sample ID: 460-319158-1
Date Collected: 01/22/25 10:33
Matrix: Water
Date Received: 01/22/25 18:00

Method: SW846 8260D - 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	0.24	ug/L			01/23/25 12:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/23/25 12:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/23/25 12:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			01/23/25 12:41	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/23/25 12:41	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/23/25 12:41	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/23/25 12:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/23/25 12:41	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/23/25 12:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			01/23/25 12:41	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/23/25 12:41	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/23/25 12:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/23/25 12:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/23/25 12:41	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/23/25 12:41	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/23/25 12:41	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/23/25 12:41	1
Acetone	5.0	U	5.0	4.4	ug/L			01/23/25 12:41	1
Benzene	**3.3**		1.0	0.20	ug/L			01/23/25 12:41	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/23/25 12:41	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/23/25 12:41	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/23/25 12:41	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/23/25 12:41	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/23/25 12:41	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/23/25 12:41	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/23/25 12:41	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/23/25 12:41	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/23/25 12:41	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/23/25 12:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/23/25 12:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 12:41	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/23/25 12:41	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/23/25 12:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/23/25 12:41	1
Ethylbenzene	**0.73**	**J**	1.0	0.30	ug/L			01/23/25 12:41	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/23/25 12:41	1
Isopropylbenzene	**0.35**	**J**	1.0	0.34	ug/L			01/23/25 12:41	1
Methyl acetate	5.0	U *	5.0	0.79	ug/L			01/23/25 12:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			01/23/25 12:41	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			01/23/25 12:41	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/23/25 12:41	1
m-Xylene & p-Xylene	**0.70**	**J**	1.0	0.30	ug/L			01/23/25 12:41	1
o-Xylene	**0.59**	**J**	1.0	0.36	ug/L			01/23/25 12:41	1
Styrene	1.0	U	1.0	0.42	ug/L			01/23/25 12:41	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/23/25 12:41	1
Toluene	**0.95**	**J**	1.0	0.38	ug/L			01/23/25 12:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/23/25 12:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 12:41	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/23/25 12:41	1

Client Sample ID: MW-02_20250122
Lab Sample ID: 460-319158-1

Date Collected: 01/22/25 10:33
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/23/25 12:41	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/23/25 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 128*		*01/23/25 12:41*	*1*
4-Bromofluorobenzene	*91*		*76 - 120*		*01/23/25 12:41*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 132*		*01/23/25 12:41*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*01/23/25 12:41*	*1*

Method: SW846 8270E 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	0.072	ug/L		01/23/25 10:06	01/23/25 23:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*44*		*10 - 150*	*01/23/25 10:06*	*01/23/25 23:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**1.3**	**J**	10	1.2	ug/L		01/23/25 10:04	01/23/25 22:27	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 22:27	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		01/23/25 10:04	01/23/25 22:27	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 22:27	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		01/23/25 10:04	01/23/25 22:27	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		01/23/25 10:04	01/23/25 22:27	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 22:27	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		01/23/25 10:04	01/23/25 22:27	1
2,4-Dinitrophenol	40	U	40	11	ug/L		01/23/25 10:04	01/23/25 22:27	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		01/23/25 10:04	01/23/25 22:27	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		01/23/25 10:04	01/23/25 22:27	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 22:27	1
2-Chlorophenol	10	U	10	0.95	ug/L		01/23/25 10:04	01/23/25 22:27	1
2-Methylnaphthalene	**2.6**	**J**	10	0.53	ug/L		01/23/25 10:04	01/23/25 22:27	1
2-Methylphenol	10	U	10	0.67	ug/L		01/23/25 10:04	01/23/25 22:27	1
2-Nitroaniline	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 22:27	1
2-Nitrophenol	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 22:27	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		01/23/25 10:04	01/23/25 22:27	1
3-Nitroaniline	10	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 22:27	1
4,6-Dinitro-2-methylphenol	20	U	20	8.6	ug/L		01/23/25 10:04	01/23/25 22:27	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 22:27	1
4-Chloro-3-methylphenol	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 22:27	1
4-Chloroaniline	10	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 22:27	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 22:27	1
4-Methylphenol	10	U	10	0.65	ug/L		01/23/25 10:04	01/23/25 22:27	1
4-Nitroaniline	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 22:27	1
4-Nitrophenol	20	U	20	4.0	ug/L		01/23/25 10:04	01/23/25 22:27	1
Acenaphthene	**4.6**	**J**	10	1.1	ug/L		01/23/25 10:04	01/23/25 22:27	1
Acenaphthylene	10	U	10	0.82	ug/L		01/23/25 10:04	01/23/25 22:27	1
Acetophenone	10	U	10	2.3	ug/L		01/23/25 10:04	01/23/25 22:27	1
Anthracene	**3.6**	**J**	10	1.3	ug/L		01/23/25 10:04	01/23/25 22:27	1
Atrazine	2.0	U *	2.0	1.3	ug/L		01/23/25 10:04	01/23/25 22:27	1
Benzaldehyde	10	U *	10	2.1	ug/L		01/23/25 10:04	01/23/25 22:27	1

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-02_20250122
Lab Sample ID: 460-319158-1
Date Collected: 01/22/25 10:33
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/23/25 10:04	01/23/25 22:27	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/23/25 10:04	01/23/25 22:27	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/23/25 10:04	01/23/25 22:27	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		01/23/25 10:04	01/23/25 22:27	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/23/25 10:04	01/23/25 22:27	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		01/23/25 10:04	01/23/25 22:27	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		01/23/25 10:04	01/23/25 22:27	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 22:27	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		01/23/25 10:04	01/23/25 22:27	1
Caprolactam	10	U	10	2.2	ug/L		01/23/25 10:04	01/23/25 22:27	1
Carbazole	**7.7**	**J**	10	0.68	ug/L		01/23/25 10:04	01/23/25 22:27	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/23/25 10:04	01/23/25 22:27	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/23/25 10:04	01/23/25 22:27	1
Dibenzofuran	**11**		10	1.1	ug/L		01/23/25 10:04	01/23/25 22:27	1
Diethyl phthalate	10	U	10	0.98	ug/L		01/23/25 10:04	01/23/25 22:27	1
Dimethyl phthalate	10	U	10	0.77	ug/L		01/23/25 10:04	01/23/25 22:27	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 22:27	1
Di-n-octyl phthalate	10	U	10	4.0	ug/L		01/23/25 10:04	01/23/25 22:27	1
Fluoranthene	**6.0**	**J**	10	0.84	ug/L		01/23/25 10:04	01/23/25 22:27	1
Fluorene	**13**		10	0.91	ug/L		01/23/25 10:04	01/23/25 22:27	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/23/25 10:04	01/23/25 22:27	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		01/23/25 10:04	01/23/25 22:27	1
Hexachlorocyclopentadiene	10	U *	10	3.6	ug/L		01/23/25 10:04	01/23/25 22:27	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 22:27	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/23/25 10:04	01/23/25 22:27	1
Isophorone	10	U	10	0.80	ug/L		01/23/25 10:04	01/23/25 22:27	1
Naphthalene	**12**		2.0	0.54	ug/L		01/23/25 10:04	01/23/25 22:27	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		01/23/25 10:04	01/23/25 22:27	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		01/23/25 10:04	01/23/25 22:27	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		01/23/25 10:04	01/23/25 22:27	1
Pentachlorophenol	20	U	20	6.6	ug/L		01/23/25 10:04	01/23/25 22:27	1
Phenanthrene	**38**		10	1.3	ug/L		01/23/25 10:04	01/23/25 22:27	1
Phenol	10	U	10	0.29	ug/L		01/23/25 10:04	01/23/25 22:27	1
Pyrene	**3.5**	**J**	10	1.6	ug/L		01/23/25 10:04	01/23/25 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*37 - 150*	*01/23/25 10:04*	*01/23/25 22:27*	*1*
2-Fluorobiphenyl	*98*		*46 - 139*	*01/23/25 10:04*	*01/23/25 22:27*	*1*
2-Fluorophenol (Surr)	*62*		*16 - 80*	*01/23/25 10:04*	*01/23/25 22:27*	*1*
Nitrobenzene-d5 (Surr)	*101*		*51 - 145*	*01/23/25 10:04*	*01/23/25 22:27*	*1*
Phenol-d5 (Surr)	*42*		*10 - 56*	*01/23/25 10:04*	*01/23/25 22:27*	*1*
Terphenyl-d14 (Surr)	*24*		*13 - 159*	*01/23/25 10:04*	*01/23/25 22:27*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 08:48	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 08:48	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 08:48	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 08:48	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/23/25 20:22	01/24/25 08:48	1

Client Sample ID: MW-02_20250122
Lab Sample ID: 460-319158-1
Date Collected: 01/22/25 10:33
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	0.020	U	0.020	0.015	ug/L		01/23/25 20:22	01/24/25 08:48	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/23/25 20:22	01/24/25 08:48	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 08:48	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 08:48	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 08:48	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 08:48	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 08:48	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 08:48	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 08:48	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 08:48	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/23/25 20:22	01/24/25 08:48	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 08:48	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 08:48	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 08:48	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/23/25 20:22	01/24/25 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*30 - 131*	*01/23/25 20:22*	*01/24/25 08:48*	*1*
DCB Decachlorobiphenyl	*51*		*30 - 131*	*01/23/25 20:22*	*01/24/25 08:48*	*1*
Tetrachloro-m-xylene	*78*		*34 - 120*	*01/23/25 20:22*	*01/24/25 08:48*	*1*
Tetrachloro-m-xylene	*66*		*34 - 120*	*01/23/25 20:22*	*01/24/25 08:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:23	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:23	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:23	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:23	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:23	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 13:23	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 13:23	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 13:23	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 13:23	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*18 - 145*	*01/23/25 20:09*	*01/24/25 13:23*	*1*
DCB Decachlorobiphenyl	*68*		*18 - 145*	*01/23/25 20:09*	*01/24/25 13:23*	*1*
Tetrachloro-m-xylene	*67*		*21 - 124*	*01/23/25 20:09*	*01/24/25 13:23*	*1*
Tetrachloro-m-xylene	*75*		*21 - 124*	*01/23/25 20:09*	*01/24/25 13:23*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	1.2	U	1.2	0.12	ug/L		01/23/25 19:30	01/24/25 11:55	1
2,4-D	1.2	U	1.2	0.13	ug/L		01/23/25 19:30	01/24/25 11:55	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		01/23/25 19:30	01/24/25 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*77*		*10 - 150*	*01/23/25 19:30*	*01/24/25 11:55*	*1*
2,4-Dichlorophenylacetic acid	*54*		*10 - 150*	*01/23/25 19:30*	*01/24/25 11:55*	*1*

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-02_20250122
Lab Sample ID: 460-319158-1
Date Collected: 01/22/25 10:33
Matrix: Water
Date Received: 01/22/25 18:00

Method: MA DEP MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**5.6**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Pyrene	11	U	11	11	ug/L		01/28/25 21:18	01/29/25 20:02	1
Benzo[g,h,i]perylene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Benzo[b]fluoranthene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Fluoranthene	**6.7**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Benzo[k]fluoranthene	3.8	U	3.8	3.8	ug/L		01/28/25 21:18	01/29/25 20:02	1
Acenaphthylene	**4.2**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Chrysene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Benzo[a]pyrene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Dibenz(a,h)anthracene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Benzo[a]anthracene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Acenaphthene	**6.1**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Phenanthrene	**35**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Fluorene	**13**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
Naphthalene	**16**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
2-Methylnaphthalene	**3.4**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:02	1
C11-C22 Aromatics (unadjusted)	**220**		38	38	ug/L		01/28/25 21:18	01/29/25 20:02	1
C11-C22 Aromatics (Adjusted)	**120**		38	38	ug/L		01/28/25 21:18	01/29/25 20:02	1
C19-C36 Aliphatics	48	U	48	48	ug/L		01/28/25 21:18	01/29/25 20:02	1
C9-C18 Aliphatics	**29**		29	29	ug/L		01/28/25 21:18	01/29/25 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*57*		*40 - 140*	*01/28/25 21:18*	*01/29/25 20:02*	*1*
2-Fluorobiphenyl (Surr)	*89*		*40 - 140*	*01/28/25 21:18*	*01/29/25 20:02*	*1*
o- terphenyl (Surr)	*79*		*40 - 140*	*01/28/25 21:18*	*01/29/25 20:02*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**25.7**	**J**	40.0	11.7	ug/L		01/27/25 10:08	01/27/25 16:24	1
Antimony	2.0	U	2.0	0.48	ug/L		01/27/25 10:08	01/27/25 16:24	1
Arsenic	**2.0**		2.0	1.2	ug/L		01/27/25 10:08	01/27/25 16:24	1
Barium	**53.1**		4.0	0.93	ug/L		01/27/25 10:08	01/27/25 16:24	1
Beryllium	0.80	U	0.80	0.12	ug/L		01/27/25 10:08	01/27/25 16:24	1
Cadmium	2.0	U	2.0	0.38	ug/L		01/27/25 10:08	01/27/25 16:24	1
Calcium	**198000**		500	31.7	ug/L		01/27/25 10:08	01/27/25 16:24	1
Chromium	4.0	U	4.0	1.7	ug/L		01/27/25 10:08	01/27/25 16:24	1
Cobalt	**1.4**	**J**	4.0	0.41	ug/L		01/27/25 10:08	01/27/25 16:24	1
Copper	4.0	U	4.0	2.0	ug/L		01/27/25 10:08	01/27/25 16:24	1
Iron	**382**		120	33.7	ug/L		01/27/25 10:08	01/27/25 16:24	1
Lead	1.2	U	1.2	0.42	ug/L		01/27/25 10:08	01/27/25 16:24	1
Magnesium	**24900**		200	21.8	ug/L		01/27/25 10:08	01/27/25 16:24	1
Manganese	**142**		8.0	0.84	ug/L		01/27/25 10:08	01/27/25 16:24	1
Nickel	**2.7**	**J**	4.0	1.4	ug/L		01/27/25 10:08	01/27/25 16:24	1
Potassium	**30100**		200	83.3	ug/L		01/27/25 10:08	01/27/25 16:24	1
Selenium	2.5	U	2.5	0.43	ug/L		01/27/25 10:08	01/27/25 16:24	1
Silver	2.0	U	2.0	1.3	ug/L		01/27/25 10:08	01/27/25 16:24	1
Sodium	**201000**		500	180	ug/L		01/27/25 10:08	01/27/25 16:24	1
Thallium	0.80	U	0.80	0.19	ug/L		01/27/25 10:08	01/27/25 16:24	1
Vanadium	**1.4**	**J**	4.0	1.0	ug/L		01/27/25 10:08	01/27/25 16:24	1

Client Sample ID: MW-02_20250122
Lab Sample ID: 460-319158-1
Date Collected: 01/22/25 10:33
Matrix: Water
Date Received: 01/22/25 18:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	16.0	U	16.0	4.2	ug/L		01/27/25 10:08	01/27/25 16:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		01/23/25 11:38	01/23/25 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	10.0	U	10.0	10.0	ug/L			01/28/25 16:44	1
Cr (VI) (SW846 7196A)	10.0	U	10.0	8.1	ug/L			01/22/25 22:17	1
Cyanide, Total (SW846 9012B)	**561**		30.0	12.0	ug/L		01/24/25 17:52	01/24/25 21:20	3

Client Sample ID: MW-01_20250122
Lab Sample ID: 460-319158-2
Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

Method: SW846 8260D - 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	0.24	ug/L			01/23/25 12:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/23/25 12:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/23/25 12:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			01/23/25 12:19	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/23/25 12:19	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/23/25 12:19	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/23/25 12:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/23/25 12:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/23/25 12:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			01/23/25 12:19	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/23/25 12:19	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/23/25 12:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/23/25 12:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/23/25 12:19	1
2-Butanone (MEK)	**36**		5.0	1.9	ug/L			01/23/25 12:19	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/23/25 12:19	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/23/25 12:19	1
Acetone	**53**		5.0	4.4	ug/L			01/23/25 12:19	1
Benzene	**9.0**		1.0	0.20	ug/L			01/23/25 12:19	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/23/25 12:19	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/23/25 12:19	1
Carbon disulfide	**2.9**		1.0	0.82	ug/L			01/23/25 12:19	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/23/25 12:19	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/23/25 12:19	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/23/25 12:19	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/23/25 12:19	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/23/25 12:19	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/23/25 12:19	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/23/25 12:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/23/25 12:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 12:19	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/23/25 12:19	1

Client Sample ID: MW-01_20250122
Lab Sample ID: 460-319158-2

Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/23/25 12:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/23/25 12:19	1
Ethylbenzene	**1.9**		1.0	0.30	ug/L			01/23/25 12:19	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/23/25 12:19	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/23/25 12:19	1
Methyl acetate	5.0	U *	5.0	0.79	ug/L			01/23/25 12:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			01/23/25 12:19	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			01/23/25 12:19	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/23/25 12:19	1
m-Xylene & p-Xylene	**1.7**		1.0	0.30	ug/L			01/23/25 12:19	1
o-Xylene	**1.6**		1.0	0.36	ug/L			01/23/25 12:19	1
Styrene	1.0	U	1.0	0.42	ug/L			01/23/25 12:19	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/23/25 12:19	1
Toluene	**1.9**		1.0	0.38	ug/L			01/23/25 12:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/23/25 12:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 12:19	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/23/25 12:19	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/23/25 12:19	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/23/25 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 128*		*01/23/25 12:19*	*1*
4-Bromofluorobenzene	*90*		*76 - 120*		*01/23/25 12:19*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 132*		*01/23/25 12:19*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*01/23/25 12:19*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.30**		0.20	0.072	ug/L		01/23/25 10:06	01/23/25 23:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*39*		*10 - 150*	*01/23/25 10:06*	*01/23/25 23:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 22:48	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 22:48	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		01/23/25 10:04	01/23/25 22:48	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 22:48	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		01/23/25 10:04	01/23/25 22:48	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		01/23/25 10:04	01/23/25 22:48	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 22:48	1
2,4-Dimethylphenol	**0.72**	**J**	10	0.62	ug/L		01/23/25 10:04	01/23/25 22:48	1
2,4-Dinitrophenol	40	U	40	11	ug/L		01/23/25 10:04	01/23/25 22:48	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		01/23/25 10:04	01/23/25 22:48	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		01/23/25 10:04	01/23/25 22:48	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 22:48	1
2-Chlorophenol	10	U	10	0.95	ug/L		01/23/25 10:04	01/23/25 22:48	1
2-Methylnaphthalene	**2.2**	**J**	10	0.53	ug/L		01/23/25 10:04	01/23/25 22:48	1
2-Methylphenol	**1.0**	**J**	10	0.67	ug/L		01/23/25 10:04	01/23/25 22:48	1
2-Nitroaniline	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 22:48	1

Client Sample ID: MW-01_20250122
Lab Sample ID: 460-319158-2
Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 22:48	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		01/23/25 10:04	01/23/25 22:48	1
3-Nitroaniline	10	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 22:48	1
4,6-Dinitro-2-methylphenol	20	U	20	8.6	ug/L		01/23/25 10:04	01/23/25 22:48	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 22:48	1
4-Chloro-3-methylphenol	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 22:48	1
4-Chloroaniline	10	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 22:48	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 22:48	1
4-Methylphenol	**0.83**	**J**	10	0.65	ug/L		01/23/25 10:04	01/23/25 22:48	1
4-Nitroaniline	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 22:48	1
4-Nitrophenol	20	U	20	4.0	ug/L		01/23/25 10:04	01/23/25 22:48	1
Acenaphthene	**5.6**	**J**	10	1.1	ug/L		01/23/25 10:04	01/23/25 22:48	1
Acenaphthylene	10	U	10	0.82	ug/L		01/23/25 10:04	01/23/25 22:48	1
Acetophenone	10	U	10	2.3	ug/L		01/23/25 10:04	01/23/25 22:48	1
Anthracene	**2.8**	**J**	10	1.3	ug/L		01/23/25 10:04	01/23/25 22:48	1
Atrazine	2.0	U *	2.0	1.3	ug/L		01/23/25 10:04	01/23/25 22:48	1
Benzaldehyde	10	U *	10	2.1	ug/L		01/23/25 10:04	01/23/25 22:48	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/23/25 10:04	01/23/25 22:48	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/23/25 10:04	01/23/25 22:48	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/23/25 10:04	01/23/25 22:48	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		01/23/25 10:04	01/23/25 22:48	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/23/25 10:04	01/23/25 22:48	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		01/23/25 10:04	01/23/25 22:48	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		01/23/25 10:04	01/23/25 22:48	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 22:48	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		01/23/25 10:04	01/23/25 22:48	1
Caprolactam	10	U	10	2.2	ug/L		01/23/25 10:04	01/23/25 22:48	1
Carbazole	**7.2**	**J**	10	0.68	ug/L		01/23/25 10:04	01/23/25 22:48	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/23/25 10:04	01/23/25 22:48	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/23/25 10:04	01/23/25 22:48	1
Dibenzofuran	**5.4**	**J**	10	1.1	ug/L		01/23/25 10:04	01/23/25 22:48	1
Diethyl phthalate	10	U	10	0.98	ug/L		01/23/25 10:04	01/23/25 22:48	1
Dimethyl phthalate	10	U	10	0.77	ug/L		01/23/25 10:04	01/23/25 22:48	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 22:48	1
Di-n-octyl phthalate	10	U	10	4.0	ug/L		01/23/25 10:04	01/23/25 22:48	1
Fluoranthene	**4.2**	**J**	10	0.84	ug/L		01/23/25 10:04	01/23/25 22:48	1
Fluorene	**8.5**	**J**	10	0.91	ug/L		01/23/25 10:04	01/23/25 22:48	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/23/25 10:04	01/23/25 22:48	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		01/23/25 10:04	01/23/25 22:48	1
Hexachlorocyclopentadiene	10	U *	10	3.6	ug/L		01/23/25 10:04	01/23/25 22:48	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 22:48	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/23/25 10:04	01/23/25 22:48	1
Isophorone	10	U	10	0.80	ug/L		01/23/25 10:04	01/23/25 22:48	1
Naphthalene	**21**		2.0	0.54	ug/L		01/23/25 10:04	01/23/25 22:48	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		01/23/25 10:04	01/23/25 22:48	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		01/23/25 10:04	01/23/25 22:48	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		01/23/25 10:04	01/23/25 22:48	1
Pentachlorophenol	20	U	20	6.6	ug/L		01/23/25 10:04	01/23/25 22:48	1
Phenanthrene	**18**		10	1.3	ug/L		01/23/25 10:04	01/23/25 22:48	1

Client Sample ID: MW-01_20250122
Lab Sample ID: 460-319158-2

Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.94	J	10	0.29	ug/L		01/23/25 10:04	01/23/25 22:48	1
Pyrene	2.8	J	10	1.6	ug/L		01/23/25 10:04	01/23/25 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*98*		*37 - 150*	*01/23/25 10:04*	*01/23/25 22:48*	*1*
2-Fluorobiphenyl	*99*		*46 - 139*	*01/23/25 10:04*	*01/23/25 22:48*	*1*
2-Fluorophenol (Surr)	*59*		*16 - 80*	*01/23/25 10:04*	*01/23/25 22:48*	*1*
Nitrobenzene-d5 (Surr)	*100*		*51 - 145*	*01/23/25 10:04*	*01/23/25 22:48*	*1*
Phenol-d5 (Surr)	*38*		*10 - 56*	*01/23/25 10:04*	*01/23/25 22:48*	*1*
Terphenyl-d14 (Surr)	*21*		*13 - 159*	*01/23/25 10:04*	*01/23/25 22:48*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 08:09	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 08:09	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 08:09	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 08:09	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/23/25 20:22	01/24/25 08:09	1
beta-BHC	0.020	U	0.020	0.015	ug/L		01/23/25 20:22	01/24/25 08:09	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/23/25 20:22	01/24/25 08:09	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 08:09	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 08:09	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 08:09	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 08:09	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 08:09	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 08:09	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 08:09	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 08:09	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/23/25 20:22	01/24/25 08:09	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 08:09	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 08:09	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 08:09	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/23/25 20:22	01/24/25 08:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*30 - 131*	*01/23/25 20:22*	*01/24/25 08:09*	*1*
DCB Decachlorobiphenyl	*54*		*30 - 131*	*01/23/25 20:22*	*01/24/25 08:09*	*1*
Tetrachloro-m-xylene	*62*		*34 - 120*	*01/23/25 20:22*	*01/24/25 08:09*	*1*
Tetrachloro-m-xylene	*63*		*34 - 120*	*01/23/25 20:22*	*01/24/25 08:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:40	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:40	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:40	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:40	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:40	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 13:40	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 13:40	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 13:40	1

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Lab Sample ID: 460-319158-2

Date Collected: 01/22/25 13:35
Matrix: Water
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Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 13:40	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*18 - 145*	*01/23/25 20:09*	*01/24/25 13:40*	*1*
DCB Decachlorobiphenyl	*66*		*18 - 145*	*01/23/25 20:09*	*01/24/25 13:40*	*1*
Tetrachloro-m-xylene	*71*		*21 - 124*	*01/23/25 20:09*	*01/24/25 13:40*	*1*
Tetrachloro-m-xylene	*74*		*21 - 124*	*01/23/25 20:09*	*01/24/25 13:40*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	1.2	U	1.2	0.12	ug/L		01/23/25 19:30	01/24/25 12:14	1
2,4-D	1.2	U	1.2	0.13	ug/L		01/23/25 19:30	01/24/25 12:14	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		01/23/25 19:30	01/24/25 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*593*	*	*10 - 150*	*01/23/25 19:30*	*01/24/25 12:14*	*1*
2,4-Dichlorophenylacetic acid	*26*		*10 - 150*	*01/23/25 19:30*	*01/24/25 12:14*	*1*

Method: MA DEP MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**2.3**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Pyrene	12	U	12	12	ug/L		01/28/25 21:18	01/29/25 20:24	1
Benzo[g,h,i]perylene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Benzo[b]fluoranthene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Fluoranthene	**3.8**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Benzo[k]fluoranthene	3.8	U	3.8	3.8	ug/L		01/28/25 21:18	01/29/25 20:24	1
Acenaphthylene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Chrysene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Benzo[a]pyrene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Dibenz(a,h)anthracene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Benzo[a]anthracene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Acenaphthene	**3.7**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Phenanthrene	**9.0**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Fluorene	**5.0**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
Naphthalene	**8.3**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
2-Methylnaphthalene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 20:24	1
C11-C22 Aromatics (unadjusted)	**100**		38	38	ug/L		01/28/25 21:18	01/29/25 20:24	1
C11-C22 Aromatics (Adjusted)	**60**		38	38	ug/L		01/28/25 21:18	01/29/25 20:24	1
C19-C36 Aliphatics	48	U	48	48	ug/L		01/28/25 21:18	01/29/25 20:24	1
C9-C18 Aliphatics	29	U	29	29	ug/L		01/28/25 21:18	01/29/25 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*60*		*40 - 140*	*01/28/25 21:18*	*01/29/25 20:24*	*1*
2-Fluorobiphenyl (Surr)	*94*		*40 - 140*	*01/28/25 21:18*	*01/29/25 20:24*	*1*
o- terphenyl (Surr)	*71*		*40 - 140*	*01/28/25 21:18*	*01/29/25 20:24*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**316**		40.0	11.7	ug/L		01/27/25 10:08	01/27/25 16:11	1

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Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.1**		2.0	0.48	ug/L		01/27/25 10:08	01/27/25 16:11	1
Arsenic	**12.4**		2.0	1.2	ug/L		01/27/25 10:08	01/27/25 16:11	1
Barium	**74.5**		4.0	0.93	ug/L		01/27/25 10:08	01/27/25 16:11	1
Beryllium	0.80	U	0.80	0.12	ug/L		01/27/25 10:08	01/27/25 16:11	1
Cadmium	2.0	U	2.0	0.38	ug/L		01/27/25 10:08	01/27/25 16:11	1
Calcium	**203000**		500	31.7	ug/L		01/27/25 10:08	01/27/25 16:11	1
Chromium	4.0	U	4.0	1.7	ug/L		01/27/25 10:08	01/27/25 16:11	1
Cobalt	**1.4**	**J**	4.0	0.41	ug/L		01/27/25 10:08	01/27/25 16:11	1
Copper	**4.3**		4.0	2.0	ug/L		01/27/25 10:08	01/27/25 16:11	1
Iron	**829**		120	33.7	ug/L		01/27/25 10:08	01/27/25 16:11	1
Lead	**8.2**		1.2	0.42	ug/L		01/27/25 10:08	01/27/25 16:11	1
Magnesium	**41600**		200	21.8	ug/L		01/27/25 10:08	01/27/25 16:11	1
Manganese	**106**		8.0	0.84	ug/L		01/27/25 10:08	01/27/25 16:11	1
Nickel	**6.0**		4.0	1.4	ug/L		01/27/25 10:08	01/27/25 16:11	1
Potassium	**59900**		200	83.3	ug/L		01/27/25 10:08	01/27/25 16:11	1
Selenium	2.5	U	2.5	0.43	ug/L		01/27/25 10:08	01/27/25 16:11	1
Silver	2.0	U	2.0	1.3	ug/L		01/27/25 10:08	01/27/25 16:11	1
Sodium	**346000**		500	180	ug/L		01/27/25 10:08	01/27/25 16:11	1
Thallium	0.80	U	0.80	0.19	ug/L		01/27/25 10:08	01/27/25 16:11	1
Vanadium	**6.6**		4.0	1.0	ug/L		01/27/25 10:08	01/27/25 16:11	1
Zinc	16.0	U	16.0	4.2	ug/L		01/27/25 10:08	01/27/25 16:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		01/23/25 11:38	01/23/25 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	10.0	U	10.0	10.0	ug/L			01/28/25 16:44	1
Cr (VI) (SW846 7196A)	10.0	U	10.0	8.1	ug/L			01/22/25 22:17	1
Cyanide, Total (SW846 9012B)	**858**		30.0	12.0	ug/L		01/24/25 17:52	01/24/25 21:18	3

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Lab Sample ID: 460-319158-3
Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

Method: SW846 8260D - 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	0.24	ug/L			01/23/25 13:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/23/25 13:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/23/25 13:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			01/23/25 13:03	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/23/25 13:03	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/23/25 13:03	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/23/25 13:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/23/25 13:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/23/25 13:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			01/23/25 13:03	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/23/25 13:03	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/23/25 13:03	1

Client Sample ID: MW-0X_20250122
Lab Sample ID: 460-319158-3

Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/23/25 13:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/23/25 13:03	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/23/25 13:03	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/23/25 13:03	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/23/25 13:03	1
Acetone	5.0	U	5.0	4.4	ug/L			01/23/25 13:03	1
Benzene	**3.3**		1.0	0.20	ug/L			01/23/25 13:03	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/23/25 13:03	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/23/25 13:03	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/23/25 13:03	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/23/25 13:03	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/23/25 13:03	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/23/25 13:03	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/23/25 13:03	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/23/25 13:03	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/23/25 13:03	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/23/25 13:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/23/25 13:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 13:03	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/23/25 13:03	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/23/25 13:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/23/25 13:03	1
Ethylbenzene	**0.77**	**J**	1.0	0.30	ug/L			01/23/25 13:03	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/23/25 13:03	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/23/25 13:03	1
Methyl acetate	5.0	U *	5.0	0.79	ug/L			01/23/25 13:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			01/23/25 13:03	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			01/23/25 13:03	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/23/25 13:03	1
m-Xylene & p-Xylene	**0.72**	**J**	1.0	0.30	ug/L			01/23/25 13:03	1
o-Xylene	**0.61**	**J**	1.0	0.36	ug/L			01/23/25 13:03	1
Styrene	1.0	U	1.0	0.42	ug/L			01/23/25 13:03	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/23/25 13:03	1
Toluene	**0.90**	**J**	1.0	0.38	ug/L			01/23/25 13:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/23/25 13:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 13:03	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/23/25 13:03	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/23/25 13:03	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/23/25 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 128*		*01/23/25 13:03*	*1*
4-Bromofluorobenzene	*92*		*76 - 120*		*01/23/25 13:03*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 132*		*01/23/25 13:03*	*1*
Toluene-d8 (Surr)	*113*		*80 - 120*		*01/23/25 13:03*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.19**	**J**	0.20	0.072	ug/L		01/23/25 10:06	01/24/25 00:12	1

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Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	44		10 - 150	01/23/25 10:06	01/24/25 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**1.5**	**J**	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:09	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:09	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		01/23/25 10:04	01/23/25 23:09	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 23:09	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		01/23/25 10:04	01/23/25 23:09	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		01/23/25 10:04	01/23/25 23:09	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 23:09	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		01/23/25 10:04	01/23/25 23:09	1
2,4-Dinitrophenol	40	U	40	11	ug/L		01/23/25 10:04	01/23/25 23:09	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		01/23/25 10:04	01/23/25 23:09	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		01/23/25 10:04	01/23/25 23:09	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:09	1
2-Chlorophenol	10	U	10	0.95	ug/L		01/23/25 10:04	01/23/25 23:09	1
2-Methylnaphthalene	**3.0**	**J**	10	0.53	ug/L		01/23/25 10:04	01/23/25 23:09	1
2-Methylphenol	10	U	10	0.67	ug/L		01/23/25 10:04	01/23/25 23:09	1
2-Nitroaniline	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:09	1
2-Nitrophenol	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 23:09	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		01/23/25 10:04	01/23/25 23:09	1
3-Nitroaniline	10	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 23:09	1
4,6-Dinitro-2-methylphenol	20	U	20	8.6	ug/L		01/23/25 10:04	01/23/25 23:09	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 23:09	1
4-Chloro-3-methylphenol	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 23:09	1
4-Chloroaniline	10	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 23:09	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 23:09	1
4-Methylphenol	10	U	10	0.65	ug/L		01/23/25 10:04	01/23/25 23:09	1
4-Nitroaniline	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:09	1
4-Nitrophenol	20	U	20	4.0	ug/L		01/23/25 10:04	01/23/25 23:09	1
Acenaphthene	**5.5**	**J**	10	1.1	ug/L		01/23/25 10:04	01/23/25 23:09	1
Acenaphthylene	10	U	10	0.82	ug/L		01/23/25 10:04	01/23/25 23:09	1
Acetophenone	10	U	10	2.3	ug/L		01/23/25 10:04	01/23/25 23:09	1
Anthracene	**3.3**	**J**	10	1.3	ug/L		01/23/25 10:04	01/23/25 23:09	1
Atrazine	2.0	U *	2.0	1.3	ug/L		01/23/25 10:04	01/23/25 23:09	1
Benzaldehyde	10	U *	10	2.1	ug/L		01/23/25 10:04	01/23/25 23:09	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/23/25 10:04	01/23/25 23:09	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/23/25 10:04	01/23/25 23:09	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/23/25 10:04	01/23/25 23:09	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		01/23/25 10:04	01/23/25 23:09	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/23/25 10:04	01/23/25 23:09	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		01/23/25 10:04	01/23/25 23:09	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		01/23/25 10:04	01/23/25 23:09	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 23:09	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		01/23/25 10:04	01/23/25 23:09	1
Caprolactam	10	U	10	2.2	ug/L		01/23/25 10:04	01/23/25 23:09	1
Carbazole	**10**		10	0.68	ug/L		01/23/25 10:04	01/23/25 23:09	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/23/25 10:04	01/23/25 23:09	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/23/25 10:04	01/23/25 23:09	1
Dibenzofuran	**13**		10	1.1	ug/L		01/23/25 10:04	01/23/25 23:09	1

Client Sample ID: MW-0X_20250122
Lab Sample ID: 460-319158-3
Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	10	U	10	0.98	ug/L		01/23/25 10:04	01/23/25 23:09	1
Dimethyl phthalate	10	U	10	0.77	ug/L		01/23/25 10:04	01/23/25 23:09	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 23:09	1
Di-n-octyl phthalate	10	U	10	4.0	ug/L		01/23/25 10:04	01/23/25 23:09	1
Fluoranthene	**5.9**	**J**	10	0.84	ug/L		01/23/25 10:04	01/23/25 23:09	1
Fluorene	**14**		10	0.91	ug/L		01/23/25 10:04	01/23/25 23:09	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/23/25 10:04	01/23/25 23:09	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		01/23/25 10:04	01/23/25 23:09	1
Hexachlorocyclopentadiene	10	U *	10	3.6	ug/L		01/23/25 10:04	01/23/25 23:09	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 23:09	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/23/25 10:04	01/23/25 23:09	1
Isophorone	10	U	10	0.80	ug/L		01/23/25 10:04	01/23/25 23:09	1
Naphthalene	**16**		2.0	0.54	ug/L		01/23/25 10:04	01/23/25 23:09	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		01/23/25 10:04	01/23/25 23:09	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		01/23/25 10:04	01/23/25 23:09	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		01/23/25 10:04	01/23/25 23:09	1
Pentachlorophenol	20	U	20	6.6	ug/L		01/23/25 10:04	01/23/25 23:09	1
Phenanthrene	**40**		10	1.3	ug/L		01/23/25 10:04	01/23/25 23:09	1
Phenol	10	U	10	0.29	ug/L		01/23/25 10:04	01/23/25 23:09	1
Pyrene	**3.6**	**J**	10	1.6	ug/L		01/23/25 10:04	01/23/25 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*37 - 150*	*01/23/25 10:04*	*01/23/25 23:09*	*1*
2-Fluorobiphenyl	*99*		*46 - 139*	*01/23/25 10:04*	*01/23/25 23:09*	*1*
2-Fluorophenol (Surr)	*61*		*16 - 80*	*01/23/25 10:04*	*01/23/25 23:09*	*1*
Nitrobenzene-d5 (Surr)	*101*		*51 - 145*	*01/23/25 10:04*	*01/23/25 23:09*	*1*
Phenol-d5 (Surr)	*40*		*10 - 56*	*01/23/25 10:04*	*01/23/25 23:09*	*1*
Terphenyl-d14 (Surr)	*24*		*13 - 159*	*01/23/25 10:04*	*01/23/25 23:09*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 09:01	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 09:01	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 09:01	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 09:01	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/23/25 20:22	01/24/25 09:01	1
beta-BHC	0.020	U	0.020	0.015	ug/L		01/23/25 20:22	01/24/25 09:01	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/23/25 20:22	01/24/25 09:01	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 09:01	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 09:01	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 09:01	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 09:01	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 09:01	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 09:01	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 09:01	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 09:01	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/23/25 20:22	01/24/25 09:01	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 09:01	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 09:01	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 09:01	1

Client Sample ID: MW-0X_20250122
Lab Sample ID: 460-319158-3

Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	0.50	U	0.50	0.11	ug/L		01/23/25 20:22	01/24/25 09:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*30 - 131*	*01/23/25 20:22*	*01/24/25 09:01*	*1*
DCB Decachlorobiphenyl	*58*		*30 - 131*	*01/23/25 20:22*	*01/24/25 09:01*	*1*
Tetrachloro-m-xylene	*60*		*34 - 120*	*01/23/25 20:22*	*01/24/25 09:01*	*1*
Tetrachloro-m-xylene	*64*		*34 - 120*	*01/23/25 20:22*	*01/24/25 09:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 14:30	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 14:30	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 14:30	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 14:30	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 14:30	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 14:30	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 14:30	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 14:30	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 14:30	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*18 - 145*	*01/23/25 20:09*	*01/24/25 14:30*	*1*
DCB Decachlorobiphenyl	*78*		*18 - 145*	*01/23/25 20:09*	*01/24/25 14:30*	*1*
Tetrachloro-m-xylene	*80*		*21 - 124*	*01/23/25 20:09*	*01/24/25 14:30*	*1*
Tetrachloro-m-xylene	*80*		*21 - 124*	*01/23/25 20:09*	*01/24/25 14:30*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	1.2	U	1.2	0.12	ug/L		01/23/25 19:30	01/24/25 13:10	1
2,4-D	1.2	U	1.2	0.13	ug/L		01/23/25 19:30	01/24/25 13:10	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		01/23/25 19:30	01/24/25 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*10 - 150*	*01/23/25 19:30*	*01/24/25 13:10*	*1*
2,4-Dichlorophenylacetic acid	*28*		*10 - 150*	*01/23/25 19:30*	*01/24/25 13:10*	*1*

Method: MA DEP MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**4.2**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Pyrene	12	U	12	12	ug/L		01/28/25 21:18	01/29/25 21:31	1
Benzo[g,h,i]perylene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Benzo[b]fluoranthene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Fluoranthene	**5.2**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Benzo[k]fluoranthene	3.8	U	3.8	3.8	ug/L		01/28/25 21:18	01/29/25 21:31	1
Acenaphthylene	**3.5**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Chrysene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Benzo[a]pyrene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Dibenz(a,h)anthracene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Benzo[a]anthracene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1

Client Sample ID: MW-0X_20250122
Lab Sample ID: 460-319158-3

Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

Method: MA DEP MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**5.5**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Phenanthrene	**26**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Fluorene	**10**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
Naphthalene	**16**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
2-Methylnaphthalene	**2.9**		1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:31	1
C11-C22 Aromatics (unadjusted)	**190**		38	38	ug/L		01/28/25 21:18	01/29/25 21:31	1
C11-C22 Aromatics (Adjusted)	**110**		38	38	ug/L		01/28/25 21:18	01/29/25 21:31	1
C19-C36 Aliphatics	48	U	48	48	ug/L		01/28/25 21:18	01/29/25 21:31	1
C9-C18 Aliphatics	29	U	29	29	ug/L		01/28/25 21:18	01/29/25 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*60*		*40 - 140*	*01/28/25 21:18*	*01/29/25 21:31*	*1*
2-Fluorobiphenyl (Surr)	*90*		*40 - 140*	*01/28/25 21:18*	*01/29/25 21:31*	*1*
o- terphenyl (Surr)	*77*		*40 - 140*	*01/28/25 21:18*	*01/29/25 21:31*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**24.8**	**J**	40.0	11.7	ug/L		01/27/25 10:08	01/27/25 16:26	1
Antimony	2.0	U	2.0	0.48	ug/L		01/27/25 10:08	01/27/25 16:26	1
Arsenic	**2.3**		2.0	1.2	ug/L		01/27/25 10:08	01/27/25 16:26	1
Barium	**51.6**		4.0	0.93	ug/L		01/27/25 10:08	01/27/25 16:26	1
Beryllium	0.80	U	0.80	0.12	ug/L		01/27/25 10:08	01/27/25 16:26	1
Cadmium	2.0	U	2.0	0.38	ug/L		01/27/25 10:08	01/27/25 16:26	1
Calcium	**196000**		500	31.7	ug/L		01/27/25 10:08	01/27/25 16:26	1
Chromium	4.0	U	4.0	1.7	ug/L		01/27/25 10:08	01/27/25 16:26	1
Cobalt	**1.4**	**J**	4.0	0.41	ug/L		01/27/25 10:08	01/27/25 16:26	1
Copper	4.0	U	4.0	2.0	ug/L		01/27/25 10:08	01/27/25 16:26	1
Iron	**374**		120	33.7	ug/L		01/27/25 10:08	01/27/25 16:26	1
Lead	1.2	U	1.2	0.42	ug/L		01/27/25 10:08	01/27/25 16:26	1
Magnesium	**24500**		200	21.8	ug/L		01/27/25 10:08	01/27/25 16:26	1
Manganese	**142**		8.0	0.84	ug/L		01/27/25 10:08	01/27/25 16:26	1
Nickel	**2.6**	**J**	4.0	1.4	ug/L		01/27/25 10:08	01/27/25 16:26	1
Potassium	**28900**		200	83.3	ug/L		01/27/25 10:08	01/27/25 16:26	1
Selenium	2.5	U	2.5	0.43	ug/L		01/27/25 10:08	01/27/25 16:26	1
Silver	2.0	U	2.0	1.3	ug/L		01/27/25 10:08	01/27/25 16:26	1
Sodium	**198000**		500	180	ug/L		01/27/25 10:08	01/27/25 16:26	1
Thallium	0.80	U	0.80	0.19	ug/L		01/27/25 10:08	01/27/25 16:26	1
Vanadium	**1.4**	**J**	4.0	1.0	ug/L		01/27/25 10:08	01/27/25 16:26	1
Zinc	16.0	U	16.0	4.2	ug/L		01/27/25 10:08	01/27/25 16:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		01/23/25 11:38	01/23/25 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	10.0	U	10.0	10.0	ug/L			01/28/25 16:44	1
Cr (VI) (SW846 7196A)	10.0	U	10.0	8.1	ug/L			01/22/25 22:17	1
Cyanide, Total (SW846 9012B)	**579**		30.0	12.0	ug/L		01/24/25 17:52	01/24/25 21:21	3

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: FB-01_20250122
Lab Sample ID: 460-319158-4
Date Collected: 01/22/25 12:05
Matrix: Water
Date Received: 01/22/25 18:00

Method: SW846 8260D - 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	0.24	ug/L			01/23/25 11:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/23/25 11:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/23/25 11:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			01/23/25 11:34	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/23/25 11:34	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/23/25 11:34	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/23/25 11:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/23/25 11:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/23/25 11:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			01/23/25 11:34	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/23/25 11:34	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/23/25 11:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/23/25 11:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/23/25 11:34	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/23/25 11:34	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/23/25 11:34	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/23/25 11:34	1
Acetone	5.0	U	5.0	4.4	ug/L			01/23/25 11:34	1
Benzene	1.0	U	1.0	0.20	ug/L			01/23/25 11:34	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/23/25 11:34	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/23/25 11:34	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/23/25 11:34	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/23/25 11:34	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/23/25 11:34	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/23/25 11:34	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/23/25 11:34	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/23/25 11:34	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/23/25 11:34	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/23/25 11:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/23/25 11:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 11:34	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/23/25 11:34	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/23/25 11:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/23/25 11:34	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/23/25 11:34	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/23/25 11:34	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/23/25 11:34	1
Methyl acetate	5.0	U *	5.0	0.79	ug/L			01/23/25 11:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			01/23/25 11:34	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			01/23/25 11:34	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/23/25 11:34	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			01/23/25 11:34	1
o-Xylene	1.0	U	1.0	0.36	ug/L			01/23/25 11:34	1
Styrene	1.0	U	1.0	0.42	ug/L			01/23/25 11:34	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/23/25 11:34	1
Toluene	1.0	U	1.0	0.38	ug/L			01/23/25 11:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/23/25 11:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 11:34	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/23/25 11:34	1

Client Sample ID: FB-01_20250122
Lab Sample ID: 460-319158-4

Date Collected: 01/22/25 12:05
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/23/25 11:34	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/23/25 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 128*		*01/23/25 11:34*	*1*
4-Bromofluorobenzene	*91*		*76 - 120*		*01/23/25 11:34*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 132*		*01/23/25 11:34*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*01/23/25 11:34*	*1*

Method: SW846 8270E 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	0.072	ug/L		01/23/25 10:06	01/24/25 00:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*41*		*10 - 150*	*01/23/25 10:06*	*01/24/25 00:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:30	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:30	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		01/23/25 10:04	01/23/25 23:30	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 23:30	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		01/23/25 10:04	01/23/25 23:30	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		01/23/25 10:04	01/23/25 23:30	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 23:30	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		01/23/25 10:04	01/23/25 23:30	1
2,4-Dinitrophenol	40	U	40	11	ug/L		01/23/25 10:04	01/23/25 23:30	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		01/23/25 10:04	01/23/25 23:30	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		01/23/25 10:04	01/23/25 23:30	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:30	1
2-Chlorophenol	10	U	10	0.95	ug/L		01/23/25 10:04	01/23/25 23:30	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		01/23/25 10:04	01/23/25 23:30	1
2-Methylphenol	10	U	10	0.67	ug/L		01/23/25 10:04	01/23/25 23:30	1
2-Nitroaniline	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:30	1
2-Nitrophenol	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 23:30	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		01/23/25 10:04	01/23/25 23:30	1
3-Nitroaniline	10	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 23:30	1
4,6-Dinitro-2-methylphenol	20	U	20	8.6	ug/L		01/23/25 10:04	01/23/25 23:30	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 23:30	1
4-Chloro-3-methylphenol	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 23:30	1
4-Chloroaniline	10	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 23:30	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 23:30	1
4-Methylphenol	10	U	10	0.65	ug/L		01/23/25 10:04	01/23/25 23:30	1
4-Nitroaniline	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:30	1
4-Nitrophenol	20	U	20	4.0	ug/L		01/23/25 10:04	01/23/25 23:30	1
Acenaphthene	10	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 23:30	1
Acenaphthylene	10	U	10	0.82	ug/L		01/23/25 10:04	01/23/25 23:30	1
Acetophenone	10	U	10	2.3	ug/L		01/23/25 10:04	01/23/25 23:30	1
Anthracene	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 23:30	1
Atrazine	2.0	U *	2.0	1.3	ug/L		01/23/25 10:04	01/23/25 23:30	1
Benzaldehyde	10	U *	10	2.1	ug/L		01/23/25 10:04	01/23/25 23:30	1

Client Sample ID: FB-01_20250122
Lab Sample ID: 460-319158-4
Date Collected: 01/22/25 12:05
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/23/25 10:04	01/23/25 23:30	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/23/25 10:04	01/23/25 23:30	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/23/25 10:04	01/23/25 23:30	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		01/23/25 10:04	01/23/25 23:30	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/23/25 10:04	01/23/25 23:30	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		01/23/25 10:04	01/23/25 23:30	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		01/23/25 10:04	01/23/25 23:30	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 23:30	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		01/23/25 10:04	01/23/25 23:30	1
Caprolactam	10	U	10	2.2	ug/L		01/23/25 10:04	01/23/25 23:30	1
Carbazole	10	U	10	0.68	ug/L		01/23/25 10:04	01/23/25 23:30	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/23/25 10:04	01/23/25 23:30	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/23/25 10:04	01/23/25 23:30	1
Dibenzofuran	10	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 23:30	1
Diethyl phthalate	10	U	10	0.98	ug/L		01/23/25 10:04	01/23/25 23:30	1
Dimethyl phthalate	10	U	10	0.77	ug/L		01/23/25 10:04	01/23/25 23:30	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 23:30	1
Di-n-octyl phthalate	10	U	10	4.0	ug/L		01/23/25 10:04	01/23/25 23:30	1
Fluoranthene	10	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 23:30	1
Fluorene	10	U	10	0.91	ug/L		01/23/25 10:04	01/23/25 23:30	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/23/25 10:04	01/23/25 23:30	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		01/23/25 10:04	01/23/25 23:30	1
Hexachlorocyclopentadiene	10	U *	10	3.6	ug/L		01/23/25 10:04	01/23/25 23:30	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 23:30	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/23/25 10:04	01/23/25 23:30	1
Isophorone	10	U	10	0.80	ug/L		01/23/25 10:04	01/23/25 23:30	1
Naphthalene	2.0	U	2.0	0.54	ug/L		01/23/25 10:04	01/23/25 23:30	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		01/23/25 10:04	01/23/25 23:30	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		01/23/25 10:04	01/23/25 23:30	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		01/23/25 10:04	01/23/25 23:30	1
Pentachlorophenol	20	U	20	6.6	ug/L		01/23/25 10:04	01/23/25 23:30	1
Phenanthrene	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 23:30	1
Phenol	10	U	10	0.29	ug/L		01/23/25 10:04	01/23/25 23:30	1
Pyrene	10	U	10	1.6	ug/L		01/23/25 10:04	01/23/25 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*37 - 150*	*01/23/25 10:04*	*01/23/25 23:30*	*1*
2-Fluorobiphenyl	*90*		*46 - 139*	*01/23/25 10:04*	*01/23/25 23:30*	*1*
2-Fluorophenol (Surr)	*52*		*16 - 80*	*01/23/25 10:04*	*01/23/25 23:30*	*1*
Nitrobenzene-d5 (Surr)	*93*		*51 - 145*	*01/23/25 10:04*	*01/23/25 23:30*	*1*
Phenol-d5 (Surr)	*34*		*10 - 56*	*01/23/25 10:04*	*01/23/25 23:30*	*1*
Terphenyl-d14 (Surr)	*35*		*13 - 159*	*01/23/25 10:04*	*01/23/25 23:30*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 09:14	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 09:14	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 09:14	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 09:14	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/23/25 20:22	01/24/25 09:14	1

Client Sample ID: FB-01_20250122
Lab Sample ID: 460-319158-4

Date Collected: 01/22/25 12:05
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	0.020	U	0.020	0.015	ug/L		01/23/25 20:22	01/24/25 09:14	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/23/25 20:22	01/24/25 09:14	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 09:14	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 09:14	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 09:14	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 09:14	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 09:14	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 09:14	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 09:14	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 09:14	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/23/25 20:22	01/24/25 09:14	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 09:14	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 09:14	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 09:14	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/23/25 20:22	01/24/25 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*30 - 131*	*01/23/25 20:22*	*01/24/25 09:14*	*1*
DCB Decachlorobiphenyl	*58*		*30 - 131*	*01/23/25 20:22*	*01/24/25 09:14*	*1*
Tetrachloro-m-xylene	*71*		*34 - 120*	*01/23/25 20:22*	*01/24/25 09:14*	*1*
Tetrachloro-m-xylene	*69*		*34 - 120*	*01/23/25 20:22*	*01/24/25 09:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 10:19	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 10:19	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 10:19	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 10:19	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 10:19	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 10:19	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 10:19	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 10:19	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 10:19	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*18 - 145*	*01/23/25 20:09*	*01/24/25 10:19*	*1*
DCB Decachlorobiphenyl	*58*		*18 - 145*	*01/23/25 20:09*	*01/24/25 10:19*	*1*
Tetrachloro-m-xylene	*73*		*21 - 124*	*01/23/25 20:09*	*01/24/25 10:19*	*1*
Tetrachloro-m-xylene	*65*		*21 - 124*	*01/23/25 20:09*	*01/24/25 10:19*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	1.2	U	1.2	0.12	ug/L		01/23/25 19:30	01/24/25 13:29	1
2,4-D	1.2	U	1.2	0.13	ug/L		01/23/25 19:30	01/24/25 13:29	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		01/23/25 19:30	01/24/25 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*33*		*10 - 150*	*01/23/25 19:30*	*01/24/25 13:29*	*1*
2,4-Dichlorophenylacetic acid	*29*		*10 - 150*	*01/23/25 19:30*	*01/24/25 13:29*	*1*

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: FB-01_20250122
Lab Sample ID: 460-319158-4
Date Collected: 01/22/25 12:05
Matrix: Water
Date Received: 01/22/25 18:00

Method: MA DEP MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Pyrene	11	U	11	11	ug/L		01/28/25 21:18	01/29/25 21:54	1
Benzo[g,h,i]perylene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Benzo[b]fluoranthene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Fluoranthene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Benzo[k]fluoranthene	3.8	U	3.8	3.8	ug/L		01/28/25 21:18	01/29/25 21:54	1
Acenaphthylene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Chrysene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Benzo[a]pyrene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Dibenz(a,h)anthracene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Benzo[a]anthracene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Acenaphthene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Phenanthrene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Fluorene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
Naphthalene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
2-Methylnaphthalene	1.9	U	1.9	1.9	ug/L		01/28/25 21:18	01/29/25 21:54	1
C11-C22 Aromatics (unadjusted)	38	U	38	38	ug/L		01/28/25 21:18	01/29/25 21:54	1
C11-C22 Aromatics (Adjusted)	38	U	38	38	ug/L		01/28/25 21:18	01/29/25 21:54	1
C19-C36 Aliphatics	47	U	47	47	ug/L		01/28/25 21:18	01/29/25 21:54	1
C9-C18 Aliphatics	28	U	28	28	ug/L		01/28/25 21:18	01/29/25 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*56*		*40 - 140*	*01/28/25 21:18*	*01/29/25 21:54*	*1*
2-Fluorobiphenyl (Surr)	*85*		*40 - 140*	*01/28/25 21:18*	*01/29/25 21:54*	*1*
o- terphenyl (Surr)	*65*		*40 - 140*	*01/28/25 21:18*	*01/29/25 21:54*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	11.7	ug/L		01/27/25 10:08	01/27/25 15:53	1
Antimony	2.0	U	2.0	0.48	ug/L		01/27/25 10:08	01/27/25 15:53	1
Arsenic	2.0	U	2.0	1.2	ug/L		01/27/25 10:08	01/27/25 15:53	1
Barium	4.0	U	4.0	0.93	ug/L		01/27/25 10:08	01/27/25 15:53	1
Beryllium	0.80	U	0.80	0.12	ug/L		01/27/25 10:08	01/27/25 15:53	1
Cadmium	2.0	U	2.0	0.38	ug/L		01/27/25 10:08	01/27/25 15:53	1
Calcium	**34.0**	**J**	500	31.7	ug/L		01/27/25 10:08	01/27/25 15:53	1
Chromium	4.0	U	4.0	1.7	ug/L		01/27/25 10:08	01/27/25 15:53	1
Cobalt	4.0	U	4.0	0.41	ug/L		01/27/25 10:08	01/27/25 15:53	1
Copper	4.0	U	4.0	2.0	ug/L		01/27/25 10:08	01/27/25 15:53	1
Iron	120	U	120	33.7	ug/L		01/27/25 10:08	01/27/25 15:53	1
Lead	1.2	U	1.2	0.42	ug/L		01/27/25 10:08	01/27/25 15:53	1
Magnesium	200	U	200	21.8	ug/L		01/27/25 10:08	01/27/25 15:53	1
Manganese	8.0	U	8.0	0.84	ug/L		01/27/25 10:08	01/27/25 15:53	1
Nickel	4.0	U	4.0	1.4	ug/L		01/27/25 10:08	01/27/25 15:53	1
Potassium	200	U	200	83.3	ug/L		01/27/25 10:08	01/27/25 15:53	1
Selenium	2.5	U	2.5	0.43	ug/L		01/27/25 10:08	01/27/25 15:53	1
Silver	2.0	U	2.0	1.3	ug/L		01/27/25 10:08	01/27/25 15:53	1
Sodium	500	U	500	180	ug/L		01/27/25 10:08	01/27/25 15:53	1
Thallium	0.80	U	0.80	0.19	ug/L		01/27/25 10:08	01/27/25 15:53	1
Vanadium	4.0	U	4.0	1.0	ug/L		01/27/25 10:08	01/27/25 15:53	1

Client Sample ID: FB-01_20250122
Lab Sample ID: 460-319158-4
Date Collected: 01/22/25 12:05
Matrix: Water
Date Received: 01/22/25 18:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	16.0	U	16.0	4.2	ug/L		01/27/25 10:08	01/27/25 15:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		01/23/25 11:38	01/23/25 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	10.0	U	10.0	10.0	ug/L			01/28/25 16:44	1
Cr (VI) (SW846 7196A)	10.0	U	10.0	8.1	ug/L			01/22/25 22:17	1
Cyanide, Total (SW846 9012B)	**8.1**	**J**	10.0	4.0	ug/L		01/24/25 17:52	01/24/25 21:09	1

Client Sample ID: TB-01_20250122
Lab Sample ID: 460-319158-5
Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

Method: SW846 8260D - 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	0.24	ug/L			01/23/25 11:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/23/25 11:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/23/25 11:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			01/23/25 11:56	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/23/25 11:56	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/23/25 11:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/23/25 11:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/23/25 11:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/23/25 11:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			01/23/25 11:56	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/23/25 11:56	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/23/25 11:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/23/25 11:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/23/25 11:56	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/23/25 11:56	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/23/25 11:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/23/25 11:56	1
Acetone	5.0	U	5.0	4.4	ug/L			01/23/25 11:56	1
Benzene	1.0	U	1.0	0.20	ug/L			01/23/25 11:56	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/23/25 11:56	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/23/25 11:56	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/23/25 11:56	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/23/25 11:56	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/23/25 11:56	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/23/25 11:56	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/23/25 11:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/23/25 11:56	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/23/25 11:56	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/23/25 11:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/23/25 11:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 11:56	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/23/25 11:56	1

Client Sample ID: TB-01_20250122
Lab Sample ID: 460-319158-5

Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/23/25 11:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/23/25 11:56	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/23/25 11:56	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/23/25 11:56	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/23/25 11:56	1
Methyl acetate	5.0	U *	5.0	0.79	ug/L			01/23/25 11:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			01/23/25 11:56	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			01/23/25 11:56	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/23/25 11:56	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			01/23/25 11:56	1
o-Xylene	1.0	U	1.0	0.36	ug/L			01/23/25 11:56	1
Styrene	1.0	U	1.0	0.42	ug/L			01/23/25 11:56	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/23/25 11:56	1
Toluene	1.0	U	1.0	0.38	ug/L			01/23/25 11:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/23/25 11:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 11:56	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/23/25 11:56	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/23/25 11:56	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/23/25 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 128*		*01/23/25 11:56*	*1*
4-Bromofluorobenzene	*88*		*76 - 120*		*01/23/25 11:56*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 132*		*01/23/25 11:56*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*01/23/25 11:56*	*1*

Client Sample ID: MW-03_20250127
Lab Sample ID: 460-319369-1

Date Collected: 01/27/25 14:30
Matrix: Water
Date Received: 01/27/25 18:00

Method: SW846 8260D - 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	0.24	ug/L			01/30/25 03:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/30/25 03:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/30/25 03:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			01/30/25 03:44	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/30/25 03:44	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/30/25 03:44	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/30/25 03:44	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/30/25 03:44	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/30/25 03:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			01/30/25 03:44	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/30/25 03:44	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/30/25 03:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/30/25 03:44	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/30/25 03:44	1
2-Butanone (MEK)	**35**		5.0	1.9	ug/L			01/30/25 03:44	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/30/25 03:44	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/30/25 03:44	1
Acetone	**340**		5.0	4.4	ug/L			01/30/25 03:44	1

Client Sample ID: MW-03_20250127
Lab Sample ID: 460-319369-1

Date Collected: 01/27/25 14:30
Matrix: Water
Date Received: 01/27/25 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			01/30/25 03:44	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/30/25 03:44	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/30/25 03:44	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/30/25 03:44	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/30/25 03:44	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/30/25 03:44	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/30/25 03:44	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/30/25 03:44	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/30/25 03:44	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/30/25 03:44	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/30/25 03:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/30/25 03:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/30/25 03:44	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/30/25 03:44	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/30/25 03:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/30/25 03:44	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/30/25 03:44	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/30/25 03:44	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/30/25 03:44	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			01/30/25 03:44	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			01/30/25 03:44	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			01/30/25 03:44	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/30/25 03:44	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			01/30/25 03:44	1
o-Xylene	1.0	U	1.0	0.36	ug/L			01/30/25 03:44	1
Styrene	1.0	U	1.0	0.42	ug/L			01/30/25 03:44	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/30/25 03:44	1
Toluene	1.0	U	1.0	0.38	ug/L			01/30/25 03:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/30/25 03:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/30/25 03:44	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/30/25 03:44	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/30/25 03:44	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/30/25 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 128*		*01/30/25 03:44*	*1*
4-Bromofluorobenzene	*105*		*76 - 120*		*01/30/25 03:44*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 132*		*01/30/25 03:44*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*01/30/25 03:44*	*1*

Method: SW846 8270E 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	0.072	ug/L		01/28/25 08:20	01/28/25 23:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*10 - 150*	*01/28/25 08:20*	*01/28/25 23:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		01/28/25 10:04	01/28/25 16:34	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		01/28/25 10:04	01/28/25 16:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		01/28/25 10:04	01/28/25 16:34	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		01/28/25 10:04	01/28/25 16:34	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		01/28/25 10:04	01/28/25 16:34	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		01/28/25 10:04	01/28/25 16:34	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		01/28/25 10:04	01/28/25 16:34	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		01/28/25 10:04	01/28/25 16:34	1
2,4-Dinitrophenol	40	U	40	11	ug/L		01/28/25 10:04	01/28/25 16:34	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		01/28/25 10:04	01/28/25 16:34	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		01/28/25 10:04	01/28/25 16:34	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		01/28/25 10:04	01/28/25 16:34	1
2-Chlorophenol	10	U	10	0.95	ug/L		01/28/25 10:04	01/28/25 16:34	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		01/28/25 10:04	01/28/25 16:34	1
2-Methylphenol	10	U	10	0.67	ug/L		01/28/25 10:04	01/28/25 16:34	1
2-Nitroaniline	10	U	10	1.2	ug/L		01/28/25 10:04	01/28/25 16:34	1
2-Nitrophenol	10	U	10	0.75	ug/L		01/28/25 10:04	01/28/25 16:34	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		01/28/25 10:04	01/28/25 16:34	1
3-Nitroaniline	10	U	10	1.9	ug/L		01/28/25 10:04	01/28/25 16:34	1
4,6-Dinitro-2-methylphenol	20	U	20	8.6	ug/L		01/28/25 10:04	01/28/25 16:34	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		01/28/25 10:04	01/28/25 16:34	1
4-Chloro-3-methylphenol	10	U	10	1.3	ug/L		01/28/25 10:04	01/28/25 16:34	1
4-Chloroaniline	10	U	10	1.9	ug/L		01/28/25 10:04	01/28/25 16:34	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		01/28/25 10:04	01/28/25 16:34	1
4-Methylphenol	10	U	10	0.65	ug/L		01/28/25 10:04	01/28/25 16:34	1
4-Nitroaniline	10	U	10	1.2	ug/L		01/28/25 10:04	01/28/25 16:34	1
4-Nitrophenol	20	U	20	4.0	ug/L		01/28/25 10:04	01/28/25 16:34	1
Acenaphthene	10	U	10	1.1	ug/L		01/28/25 10:04	01/28/25 16:34	1
Acenaphthylene	10	U	10	0.82	ug/L		01/28/25 10:04	01/28/25 16:34	1
Acetophenone	10	U	10	2.3	ug/L		01/28/25 10:04	01/28/25 16:34	1
Anthracene	10	U	10	1.3	ug/L		01/28/25 10:04	01/28/25 16:34	1
Atrazine	2.0	U *	2.0	1.3	ug/L		01/28/25 10:04	01/28/25 16:34	1
Benzaldehyde	10	U	10	2.1	ug/L		01/28/25 10:04	01/28/25 16:34	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/28/25 10:04	01/28/25 16:34	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/28/25 10:04	01/28/25 16:34	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/28/25 10:04	01/28/25 16:34	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		01/28/25 10:04	01/28/25 16:34	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/28/25 10:04	01/28/25 16:34	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		01/28/25 10:04	01/28/25 16:34	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		01/28/25 10:04	01/28/25 16:34	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		01/28/25 10:04	01/28/25 16:34	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		01/28/25 10:04	01/28/25 16:34	1
Caprolactam	**12**		10	2.2	ug/L		01/28/25 10:04	01/28/25 16:34	1
Carbazole	10	U	10	0.68	ug/L		01/28/25 10:04	01/28/25 16:34	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/28/25 10:04	01/28/25 16:34	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/28/25 10:04	01/28/25 16:34	1
Dibenzofuran	10	U	10	1.1	ug/L		01/28/25 10:04	01/28/25 16:34	1
Diethyl phthalate	10	U	10	0.98	ug/L		01/28/25 10:04	01/28/25 16:34	1
Dimethyl phthalate	10	U	10	0.77	ug/L		01/28/25 10:04	01/28/25 16:34	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		01/28/25 10:04	01/28/25 16:34	1
Di-n-octyl phthalate	10	U	10	4.0	ug/L		01/28/25 10:04	01/28/25 16:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	10	U	10	0.84	ug/L		01/28/25 10:04	01/28/25 16:34	1
Fluorene	10	U	10	0.91	ug/L		01/28/25 10:04	01/28/25 16:34	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/28/25 10:04	01/28/25 16:34	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		01/28/25 10:04	01/28/25 16:34	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		01/28/25 10:04	01/28/25 16:34	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		01/28/25 10:04	01/28/25 16:34	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/28/25 10:04	01/28/25 16:34	1
Isophorone	10	U	10	0.80	ug/L		01/28/25 10:04	01/28/25 16:34	1
Naphthalene	2.0	U	2.0	0.54	ug/L		01/28/25 10:04	01/28/25 16:34	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		01/28/25 10:04	01/28/25 16:34	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		01/28/25 10:04	01/28/25 16:34	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		01/28/25 10:04	01/28/25 16:34	1
Pentachlorophenol	20	U	20	6.6	ug/L		01/28/25 10:04	01/28/25 16:34	1
Phenanthrene	10	U	10	1.3	ug/L		01/28/25 10:04	01/28/25 16:34	1
Phenol	**2.5**	**J**	10	0.29	ug/L		01/28/25 10:04	01/28/25 16:34	1
Pyrene	10	U	10	1.6	ug/L		01/28/25 10:04	01/28/25 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*37 - 150*	*01/28/25 10:04*	*01/28/25 16:34*	*1*
2-Fluorobiphenyl	*73*		*46 - 139*	*01/28/25 10:04*	*01/28/25 16:34*	*1*
2-Fluorophenol (Surr)	*43*		*16 - 80*	*01/28/25 10:04*	*01/28/25 16:34*	*1*
Nitrobenzene-d5 (Surr)	*81*		*51 - 145*	*01/28/25 10:04*	*01/28/25 16:34*	*1*
Phenol-d5 (Surr)	*36*		*10 - 56*	*01/28/25 10:04*	*01/28/25 16:34*	*1*
Terphenyl-d14 (Surr)	*30*		*13 - 159*	*01/28/25 10:04*	*01/28/25 16:34*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**520**		100	28	ug/L		01/31/25 13:17	01/31/25 14:58	1
ORO (C28-C44)	100	U	100	31	ug/L		01/31/25 13:17	01/31/25 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*15 - 150*	*01/31/25 13:17*	*01/31/25 14:58*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/28/25 08:51	01/28/25 21:49	1
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/28/25 08:51	01/28/25 21:49	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/28/25 08:51	01/28/25 21:49	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/28/25 08:51	01/28/25 21:49	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/28/25 08:51	01/28/25 21:49	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/28/25 08:51	01/28/25 21:49	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/28/25 08:51	01/28/25 21:49	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/28/25 08:51	01/28/25 21:49	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/28/25 08:51	01/28/25 21:49	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/28/25 08:51	01/28/25 21:49	1
beta-BHC	0.020	U	0.020	0.015	ug/L		01/28/25 08:51	01/28/25 21:49	1
beta-BHC	0.020	U	0.020	0.015	ug/L		01/28/25 08:51	01/28/25 21:49	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/28/25 08:51	01/28/25 21:49	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/28/25 08:51	01/28/25 21:49	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/28/25 08:51	01/28/25 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/28/25 08:51	01/28/25 21:49	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/28/25 08:51	01/28/25 21:49	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/28/25 08:51	01/28/25 21:49	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/28/25 08:51	01/28/25 21:49	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/28/25 08:51	01/28/25 21:49	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/28/25 08:51	01/28/25 21:49	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/28/25 08:51	01/28/25 21:49	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/28/25 08:51	01/28/25 21:49	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/28/25 08:51	01/28/25 21:49	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/28/25 08:51	01/28/25 21:49	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/28/25 08:51	01/28/25 21:49	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/28/25 08:51	01/28/25 21:49	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/28/25 08:51	01/28/25 21:49	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/28/25 08:51	01/28/25 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*30 - 131*	*01/28/25 08:51*	*01/28/25 21:49*	*1*
DCB Decachlorobiphenyl	*84*		*30 - 131*	*01/28/25 08:51*	*01/28/25 21:49*	*1*
Tetrachloro-m-xylene	*102*		*34 - 120*	*01/28/25 08:51*	*01/28/25 21:49*	*1*
Tetrachloro-m-xylene	*94*		*34 - 120*	*01/28/25 08:51*	*01/28/25 21:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 19:09	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 19:09	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 19:09	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 19:09	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 19:09	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 19:09	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 19:09	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 19:09	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 19:09	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*18 - 145*	*01/28/25 08:42*	*01/28/25 19:09*	*1*
DCB Decachlorobiphenyl	*58*		*18 - 145*	*01/28/25 08:42*	*01/28/25 19:09*	*1*
Tetrachloro-m-xylene	*81*		*21 - 124*	*01/28/25 08:42*	*01/28/25 19:09*	*1*
Tetrachloro-m-xylene	*76*		*21 - 124*	*01/28/25 08:42*	*01/28/25 19:09*	*1*

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Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	1.2	U	1.2	0.12	ug/L		01/28/25 08:56	01/28/25 15:51	1
2,4-D	1.2	U	1.2	0.13	ug/L		01/28/25 08:56	01/28/25 15:51	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		01/28/25 08:56	01/28/25 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*181*	*	*10 - 150*	*01/28/25 08:56*	*01/28/25 15:51*	*1*
2,4-Dichlorophenylacetic acid	*130*		*10 - 150*	*01/28/25 08:56*	*01/28/25 15:51*	*1*

Method: MA DEP MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Pyrene	11	U	11	11	ug/L		01/30/25 09:03	02/04/25 20:27	1
Benzo[g,h,i]perylene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Benzo[b]fluoranthene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Fluoranthene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Benzo[k]fluoranthene	3.8	U	3.8	3.8	ug/L		01/30/25 09:03	02/04/25 20:27	1
Acenaphthylene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Chrysene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Benzo[a]pyrene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Dibenz(a,h)anthracene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Benzo[a]anthracene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Acenaphthene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Phenanthrene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Fluorene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
Naphthalene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
2-Methylnaphthalene	1.9	U	1.9	1.9	ug/L		01/30/25 09:03	02/04/25 20:27	1
C11-C22 Aromatics (unadjusted)	38	U	38	38	ug/L		01/30/25 09:03	02/04/25 20:27	1
C11-C22 Aromatics (Adjusted)	38	U	38	38	ug/L		01/30/25 09:03	02/04/25 20:27	1
C19-C36 Aliphatics	47	U	47	47	ug/L		01/30/25 09:03	02/03/25 20:28	1
C9-C18 Aliphatics	28	U	28	28	ug/L		01/30/25 09:03	02/03/25 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*61*		*40 - 140*	*01/30/25 09:03*	*02/03/25 20:28*	*1*
2-Fluorobiphenyl (Surr)	*90*		*40 - 140*	*01/30/25 09:03*	*02/04/25 20:27*	*1*
o- terphenyl (Surr)	*73*		*40 - 140*	*01/30/25 09:03*	*02/04/25 20:27*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1210**	**B**	40.0	11.7	ug/L		01/30/25 10:24	01/30/25 23:34	1
Antimony	2.0	U	2.0	0.48	ug/L		01/30/25 10:24	01/30/25 23:34	1
Arsenic	**6.5**		2.0	1.2	ug/L		01/30/25 10:24	01/30/25 23:34	1
Barium	**48.3**		4.0	0.93	ug/L		01/30/25 10:24	01/30/25 23:34	1
Beryllium	0.80	U	0.80	0.12	ug/L		01/30/25 10:24	01/30/25 23:34	1
Cadmium	**1.1**	**J**	2.0	0.38	ug/L		01/30/25 10:24	01/30/25 23:34	1
Calcium	**254000**		500	31.7	ug/L		01/30/25 10:24	01/30/25 23:34	1
Chromium	**40.9**		4.0	1.7	ug/L		01/30/25 10:24	01/30/25 23:34	1
Cobalt	**28.8**		4.0	0.41	ug/L		01/30/25 10:24	01/30/25 23:34	1
Copper	**32.4**		4.0	2.0	ug/L		01/30/25 10:24	01/30/25 23:34	1
Iron	**66300**		120	33.7	ug/L		01/30/25 10:24	01/30/25 23:34	1

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-03_20250127
Lab Sample ID: 460-319369-1
Date Collected: 01/27/25 14:30
Matrix: Water
Date Received: 01/27/25 18:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**34.5**		1.2	0.42	ug/L		01/30/25 10:24	01/30/25 23:34	1
Magnesium	**47600**		200	21.8	ug/L		01/30/25 10:24	01/30/25 23:34	1
Manganese	**1990**		8.0	0.84	ug/L		01/30/25 10:24	01/30/25 23:34	1
Nickel	**33.5**		4.0	1.4	ug/L		01/30/25 10:24	01/30/25 23:34	1
Potassium	**31500**		200	83.3	ug/L		01/30/25 10:24	01/30/25 23:34	1
Selenium	2.5	U	2.5	0.43	ug/L		01/30/25 10:24	01/30/25 23:34	1
Silver	2.0	U	2.0	1.3	ug/L		01/30/25 10:24	01/30/25 23:34	1
Sodium	**356000**		500	180	ug/L		01/30/25 10:24	01/30/25 23:34	1
Thallium	0.80	U	0.80	0.19	ug/L		01/30/25 10:24	01/30/25 23:34	1
Vanadium	**4.6**		4.0	1.0	ug/L		01/30/25 10:24	01/30/25 23:34	1
Zinc	**81.8**		16.0	4.2	ug/L		01/30/25 10:24	01/30/25 23:34	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**	**J**	0.20	0.091	ug/L		01/29/25 11:25	01/29/25 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	**40.9**		10.0	10.0	ug/L			01/29/25 05:05	1
Cr (VI) (SW846 7196A)	10.0	U	10.0	8.1	ug/L			01/28/25 09:10	1
Cyanide, Total (SW846 9012B)	**146**		10.0	4.0	ug/L		01/30/25 09:24	01/30/25 12:50	1

Surrogate Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-128)	(76-120)	(77-132)	(80-120)
460-319158-1	MW-02_20250122	125	91	101	110
460-319158-2	MW-01_20250122	110	90	93	108
460-319158-2 MS	MW-01_20250122	117	93	96	105
460-319158-2 MSD	MW-01_20250122	120	100	98	113
460-319158-3	MW-0X_20250122	116	92	94	113
460-319158-4	FB-01_20250122	123	91	99	108
460-319158-5	TB-01_20250122	125	88	95	108
460-319369-1	MW-03_20250127	111	105	102	97
LCS 460-1017719/4	Lab Control Sample	115	96	92	106
LCS 460-1018632/4	Lab Control Sample	106	111	94	98
LCSD 460-1017719/5	Lab Control Sample Dup	111	93	91	103
LCSD 460-1018632/5	Lab Control Sample Dup	101	111	97	101
MB 460-1017719/8	Method Blank	118	88	97	100
MB 460-1018632/9	Method Blank	108	110	97	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(37-150)	(46-139)	(16-80)	(51-145)	(10-56)	(13-159)
460-319158-1	MW-02_20250122	97	98	62	101	42	24
460-319158-2	MW-01_20250122	98	99	59	100	38	21
460-319158-2 MS	MW-01_20250122	105	106	61	106	41	51
460-319158-2 MSD	MW-01_20250122	97	99	53	103	34	41
460-319158-3	MW-0X_20250122	101	99	61	101	40	24
460-319158-4	FB-01_20250122	87	90	52	93	34	35
460-319369-1	MW-03_20250127	90	73	43	81	36	30
LCS 460-1017771/2-A	Lab Control Sample	111	111	54	110	36	84
LCS 460-1018383/2-A	Lab Control Sample	95	80	44	84	31	65
LCSD 460-1017771/3-A	Lab Control Sample Dup	97	96	55	96	38	70
LCSD 460-1018383/3-A	Lab Control Sample Dup	114	98	54	102	37	78
MB 460-1017771/1-A	Method Blank	88	89	54	91	36	30
MB 460-1018383/1-A	Method Blank	96	89	46	97	29	85

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	OTPH (15-150)								
460-319369-1	MW-03_20250127	64								
LCS 460-1018883/2-A	Lab Control Sample	69								
LCSD 460-1018883/3-A	Lab Control Sample Dup	87								
MB 460-1018883/1-A	Method Blank	62								

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCBP1 (30-131)	DCBP2 (30-131)	TCX1 (34-120)	TCX2 (34-120)					
460-319158-1	MW-02_20250122	51	59	66	78					
460-319158-2	MW-01_20250122	54	57	63	62					
460-319158-2 MS	MW-01_20250122	69	71	79	74					
460-319158-2 MSD	MW-01_20250122	71	72	78	74					
460-319158-3	MW-0X_20250122	58	60	64	60					
460-319158-4	FB-01_20250122	58	62	69	71					
460-319369-1	MW-03_20250127	84	110	94	102					
LCS 460-1017868/2-A	Lab Control Sample	55	53	82	72					
LCS 460-1018372/2-A	Lab Control Sample	86	103	89	92					
LCSD 460-1017868/3-A	Lab Control Sample Dup	55	55	82	74					
LCSD 460-1018372/3-A	Lab Control Sample Dup	88	104	90	94					
MB 460-1017868/1-A	Method Blank	55	58	75	76					
MB 460-1018372/1-A	Method Blank	89	108	95	101					

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCBP1 (18-145)	DCBP2 (18-145)	TCX1 (21-124)	TCX2 (21-124)					
460-319158-1	MW-02_20250122	68	59	75	67					
460-319158-2	MW-01_20250122	66	61	74	71					
460-319158-2 MS	MW-01_20250122	70	78	81	79					
460-319158-2 MSD	MW-01_20250122	70	72	81	79					
460-319158-3	MW-0X_20250122	78	81	80	80					
460-319158-4	FB-01_20250122	58	63	65	73					
460-319369-1	MW-03_20250127	58	69	76	81					
LCS 460-1017866/2-A	Lab Control Sample	72	63	87	78					
LCS 460-1018366/2-A	Lab Control Sample	85	78	94	93					
LCSD 460-1017866/3-A	Lab Control Sample Dup	66	63	80	81					
LCSD 460-1018366/3-A	Lab Control Sample Dup	91	84	102	100					
MB 460-1017866/1-A	Method Blank	64	62	78	81					
MB 460-1018366/1-A	Method Blank	83	76	90	92					

Surrogate Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(10-150)	(10-150)
460-319158-1	MW-02_20250122	54	77
460-319158-2	MW-01_20250122	26	593 *
460-319158-2 MS	MW-01_20250122	33	611 *
460-319158-2 MSD	MW-01_20250122	79	835 *
460-319158-3	MW-0X_20250122	28	68
460-319158-4	FB-01_20250122	29	33
460-319369-1	MW-03_20250127	130	181 *
LB 460-1018130/1-E	Method Blank	102	119
LCS 460-1017861/2-A	Lab Control Sample	41	51
LCS 460-1018283/2-A	Lab Control Sample	68	84
LCSD 460-1017861/3-A	Lab Control Sample Dup	51	57
LCSD 460-1018283/3-A	Lab Control Sample Dup	75	84
MB 460-1017861/1-A	Method Blank	42	48
MB 460-1018283/1-A	Method Blank	45	55

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Water — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(10-150)	(10-150)
460-319129-A-1-H MS	Matrix Spike	100	126

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP1	OTP1
Lab Sample ID	Client Sample ID	(40-140)	(40-140)
460-319158-1	MW-02_20250122	89	79
460-319158-2	MW-01_20250122	94	71
460-319158-2 MS	MW-01_20250122	89	64
460-319158-2 MSD	MW-01_20250122	88	55
460-319158-3	MW-0X_20250122	90	77
460-319158-4	FB-01_20250122	85	65
460-319369-1	MW-03_20250127	90	73
LCS 410-600140/2-C	Lab Control Sample	89	74
LCS 410-600679/2-C	Lab Control Sample	95	75
LCSD 410-600140/3-C	Lab Control Sample Dup	88	69
LCSD 410-600679/3-C	Lab Control Sample Dup	90	74
MB 410-600140/1-C	Method Blank	94	78
MB 410-600679/1-C	Method Blank	114	57

Surrogate Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
OTP = o- terphenyl (Surr)

Method: MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	1COD1 (40-140)						
460-319158-1	MW-02_20250122	57						
460-319158-2	MW-01_20250122	60						
460-319158-2 MS	MW-01_20250122	49						
460-319158-2 MSD	MW-01_20250122	40						
460-319158-3	MW-0X_20250122	60						
460-319158-4	FB-01_20250122	56						
460-319369-1	MW-03_20250127	61						
LCS 410-600140/2-B	Lab Control Sample	51						
LCS 410-600679/2-B	Lab Control Sample	56						
LCSD 410-600140/3-B	Lab Control Sample Dup	54						
LCSD 410-600679/3-B	Lab Control Sample Dup	52						
MB 410-600140/1-B	Method Blank	70						
MB 410-600679/1-B	Method Blank	63						

Surrogate Legend

1COD = 1-Chlorooctadecane (Surr)

Isotope Dilution Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Method: 8270E 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 (10-150)						
460-319158-1	MW-02_20250122	44						
460-319158-2	MW-01_20250122	39						
460-319158-2 MS	MW-01_20250122	35						
460-319158-2 MSD	MW-01_20250122	40						
460-319158-3	MW-0X_20250122	44						
460-319158-4	FB-01_20250122	41						
460-319369-1	MW-03_20250127	35						
LCS 460-1017773/2-A	Lab Control Sample	37						
LCS 460-1018363/2-A	Lab Control Sample	36						
LCSD 460-1017773/3-A	Lab Control Sample Dup	43						
LCSD 460-1018363/3-A	Lab Control Sample Dup	27						
MB 460-1017773/1-A	Method Blank	41						
MB 460-1018363/1-A	Method Blank	38						

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-1017719/8
Matrix: Water
Analysis Batch: 1017719

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	0.24	ug/L			01/23/25 08:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/23/25 08:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/23/25 08:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			01/23/25 08:36	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/23/25 08:36	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/23/25 08:36	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/23/25 08:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/23/25 08:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/23/25 08:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			01/23/25 08:36	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/23/25 08:36	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/23/25 08:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/23/25 08:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/23/25 08:36	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/23/25 08:36	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/23/25 08:36	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/23/25 08:36	1
Acetone	5.0	U	5.0	4.4	ug/L			01/23/25 08:36	1
Benzene	1.0	U	1.0	0.20	ug/L			01/23/25 08:36	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/23/25 08:36	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/23/25 08:36	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/23/25 08:36	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/23/25 08:36	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/23/25 08:36	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/23/25 08:36	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/23/25 08:36	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/23/25 08:36	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/23/25 08:36	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/23/25 08:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/23/25 08:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 08:36	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/23/25 08:36	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/23/25 08:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/23/25 08:36	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/23/25 08:36	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/23/25 08:36	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/23/25 08:36	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			01/23/25 08:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			01/23/25 08:36	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			01/23/25 08:36	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/23/25 08:36	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			01/23/25 08:36	1
o-Xylene	1.0	U	1.0	0.36	ug/L			01/23/25 08:36	1
Styrene	1.0	U	1.0	0.42	ug/L			01/23/25 08:36	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/23/25 08:36	1
Toluene	1.0	U	1.0	0.38	ug/L			01/23/25 08:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/23/25 08:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/23/25 08:36	1

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

Lab Sample ID: MB 460-1017719/8
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/23/25 08:36	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/23/25 08:36	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/23/25 08:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 128*		*01/23/25 08:36*	*1*
4-Bromofluorobenzene	*88*		*76 - 120*		*01/23/25 08:36*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 132*		*01/23/25 08:36*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/23/25 08:36*	*1*

Lab Sample ID: LCS 460-1017719/4
Matrix: Water
Analysis Batch: 1017719

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	20.0	18.0		ug/L		90	72 - 128
1,1,2,2-Tetrachloroethane	20.0	24.3		ug/L		122	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.3		ug/L		92	65 - 142
1,1,2-Trichloroethane	20.0	22.5		ug/L		113	74 - 125
1,1-Dichloroethane	20.0	21.6		ug/L		108	73 - 130
1,1-Dichloroethene	20.0	17.1		ug/L		85	68 - 133
1,2,3-Trichlorobenzene	20.0	22.9		ug/L		114	55 - 150
1,2,4-Trichlorobenzene	20.0	21.2		ug/L		106	67 - 132
1,2-Dibromo-3-Chloropropane	20.0	20.7		ug/L		103	58 - 132
1,2-Dichlorobenzene	20.0	20.5		ug/L		102	80 - 120
1,2-Dichloroethane	20.0	22.6		ug/L		113	66 - 129
1,2-Dichloropropane	20.0	22.8		ug/L		114	72 - 128
1,3-Dichlorobenzene	20.0	19.7		ug/L		98	80 - 120
1,4-Dichlorobenzene	20.0	19.3		ug/L		96	80 - 120
2-Butanone (MEK)	100	69.4		ug/L		69	65 - 142
2-Hexanone	100	114		ug/L		114	72 - 134
4-Methyl-2-pentanone (MIBK)	100	110		ug/L		110	77 - 130
Acetone	100	93.6		ug/L		94	60 - 133
Benzene	20.0	21.7		ug/L		108	71 - 126
Bromoform	20.0	19.3		ug/L		97	58 - 128
Bromomethane	20.0	17.4		ug/L		87	33 - 150
Carbon disulfide	20.0	19.0		ug/L		95	35 - 150
Carbon tetrachloride	20.0	17.3		ug/L		86	65 - 131
Chlorobenzene	20.0	18.8		ug/L		94	80 - 120
Chlorobromomethane	20.0	16.8		ug/L		84	71 - 134
Chlorodibromomethane	20.0	19.5		ug/L		97	73 - 121
Chloroethane	20.0	20.5		ug/L		103	54 - 150
Chloroform	20.0	19.2		ug/L		96	78 - 125
Chloromethane	20.0	24.3		ug/L		121	43 - 149
cis-1,2-Dichloroethene	20.0	17.1		ug/L		86	78 - 121
cis-1,3-Dichloropropene	20.0	21.7		ug/L		108	74 - 125
Cyclohexane	20.0	18.8		ug/L		94	64 - 142
Dichlorobromomethane	20.0	18.7		ug/L		94	76 - 121

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

Lab Sample ID: LCS 460-1017719/4
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	20.0	18.3		ug/L		91	38 - 144
Ethylbenzene	20.0	18.9		ug/L		94	78 - 120
Ethylene Dibromide	20.0	21.2		ug/L		106	79 - 126
Isopropylbenzene	20.0	19.3		ug/L		97	79 - 125
Methyl acetate	40.0	63.3	*	ug/L		158	50 - 147
Methyl tert-butyl ether	20.0	21.0		ug/L		105	72 - 131
Methylcyclohexane	20.0	19.5		ug/L		98	63 - 138
Methylene Chloride	20.0	18.1		ug/L		90	74 - 127
m-Xylene & p-Xylene	20.0	18.4		ug/L		92	78 - 120
o-Xylene	20.0	19.3		ug/L		97	78 - 120
Styrene	20.0	18.6		ug/L		93	82 - 127
Tetrachloroethene	20.0	17.2		ug/L		86	70 - 127
Toluene	20.0	19.8		ug/L		99	78 - 120
trans-1,2-Dichloroethene	20.0	17.2		ug/L		86	70 - 126
trans-1,3-Dichloropropene	20.0	21.4		ug/L		107	71 - 127
Trichloroethene	20.0	17.5		ug/L		88	73 - 121
Trichlorofluoromethane	20.0	19.6		ug/L		98	62 - 134
Vinyl chloride	20.0	22.1		ug/L		111	55 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 128*
4-Bromofluorobenzene	*96*		*76 - 120*
Dibromofluoromethane (Surr)	*92*		*77 - 132*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: LCSD 460-1017719/5
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	17.8		ug/L		89	72 - 128	1	30
1,1,2,2-Tetrachloroethane	20.0	24.6		ug/L		123	63 - 139	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.5		ug/L		92	65 - 142	1	30
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	74 - 125	7	30
1,1-Dichloroethane	20.0	21.6		ug/L		108	73 - 130	0	30
1,1-Dichloroethene	20.0	17.3		ug/L		87	68 - 133	2	30
1,2,3-Trichlorobenzene	20.0	24.0		ug/L		120	55 - 150	5	30
1,2,4-Trichlorobenzene	20.0	21.9		ug/L		109	67 - 132	3	30
1,2-Dibromo-3-Chloropropane	20.0	20.4		ug/L		102	58 - 132	1	30
1,2-Dichlorobenzene	20.0	20.9		ug/L		104	80 - 120	2	30
1,2-Dichloroethane	20.0	21.1		ug/L		106	66 - 129	7	30
1,2-Dichloropropane	20.0	22.3		ug/L		111	72 - 128	2	30
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120	1	30
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120	2	30
2-Butanone (MEK)	100	68.4		ug/L		68	65 - 142	1	30
2-Hexanone	100	112		ug/L		112	72 - 134	2	30
4-Methyl-2-pentanone (MIBK)	100	106		ug/L		106	77 - 130	4	30
Acetone	100	90.3		ug/L		90	60 - 133	4	30

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

Lab Sample ID: LCSD 460-1017719/5
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	20.0	21.5		ug/L		108	71 - 126	1	30
Bromoform	20.0	18.5		ug/L		93	58 - 128	4	30
Bromomethane	20.0	18.5		ug/L		93	33 - 150	6	30
Carbon disulfide	20.0	18.6		ug/L		93	35 - 150	2	30
Carbon tetrachloride	20.0	17.8		ug/L		89	65 - 131	3	30
Chlorobenzene	20.0	18.6		ug/L		93	80 - 120	1	30
Chlorobromomethane	20.0	16.5		ug/L		83	71 - 134	1	30
Chlorodibromomethane	20.0	18.4		ug/L		92	73 - 121	6	30
Chloroethane	20.0	19.9		ug/L		99	54 - 150	3	30
Chloroform	20.0	19.4		ug/L		97	78 - 125	1	30
Chloromethane	20.0	24.3		ug/L		122	43 - 149	0	30
cis-1,2-Dichloroethene	20.0	17.3		ug/L		86	78 - 121	1	30
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	74 - 125	3	30
Cyclohexane	20.0	18.7		ug/L		94	64 - 142	0	30
Dichlorobromomethane	20.0	19.0		ug/L		95	76 - 121	1	30
Dichlorodifluoromethane	20.0	18.5		ug/L		92	38 - 144	1	30
Ethylbenzene	20.0	19.2		ug/L		96	78 - 120	2	30
Ethylene Dibromide	20.0	19.6		ug/L		98	79 - 126	8	30
Isopropylbenzene	20.0	19.3		ug/L		97	79 - 125	0	30
Methyl acetate	40.0	62.7	*	ug/L		157	50 - 147	1	30
Methyl tert-butyl ether	20.0	20.8		ug/L		104	72 - 131	1	30
Methylcyclohexane	20.0	19.9		ug/L		99	63 - 138	2	30
Methylene Chloride	20.0	18.0		ug/L		90	74 - 127	0	30
m-Xylene & p-Xylene	20.0	18.7		ug/L		94	78 - 120	2	30
o-Xylene	20.0	19.0		ug/L		95	78 - 120	2	30
Styrene	20.0	18.9		ug/L		95	82 - 127	1	30
Tetrachloroethene	20.0	16.4		ug/L		82	70 - 127	5	30
Toluene	20.0	19.2		ug/L		96	78 - 120	3	30
trans-1,2-Dichloroethene	20.0	17.3		ug/L		86	70 - 126	0	30
trans-1,3-Dichloropropene	20.0	21.2		ug/L		106	71 - 127	1	30
Trichloroethene	20.0	17.5		ug/L		88	73 - 121	0	30
Trichlorofluoromethane	20.0	19.3		ug/L		97	62 - 134	1	30
Vinyl chloride	20.0	22.6		ug/L		113	55 - 144	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 128*
4-Bromofluorobenzene	*93*		*76 - 120*
Dibromofluoromethane (Surr)	*91*		*77 - 132*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: MW-01_20250122
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	20.0	15.5		ug/L		77	72 - 128
1,1,2,2-Tetrachloroethane	1.0	U	20.0	23.7		ug/L		118	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	20.0	11.4	*	ug/L		57	65 - 142

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

Lab Sample ID: 460-319158-2 MS
Client Sample ID: MW-01_20250122
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 1017719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	1.0	U	20.0	19.8		ug/L		99	74 - 125
1,1-Dichloroethane	1.0	U	20.0	19.5		ug/L		97	73 - 130
1,1-Dichloroethene	1.0	U	20.0	13.3	*	ug/L		66	68 - 133
1,2,3-Trichlorobenzene	1.0	U	20.0	22.5		ug/L		113	55 - 150
1,2,4-Trichlorobenzene	1.0	U	20.0	20.5		ug/L		102	67 - 132
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	20.8		ug/L		104	58 - 132
1,2-Dichlorobenzene	1.0	U	20.0	19.0		ug/L		95	80 - 120
1,2-Dichloroethane	1.0	U	20.0	19.4		ug/L		97	66 - 129
1,2-Dichloropropane	1.0	U	20.0	20.4		ug/L		102	72 - 128
1,3-Dichlorobenzene	1.0	U	20.0	19.0		ug/L		95	80 - 120
1,4-Dichlorobenzene	1.0	U	20.0	18.1		ug/L		90	80 - 120
2-Butanone (MEK)	36		100	102		ug/L		66	65 - 142
2-Hexanone	5.0	U	100	111		ug/L		111	72 - 134
4-Methyl-2-pentanone (MIBK)	5.0	U	100	107		ug/L		107	77 - 130
Acetone	53		100	126		ug/L		74	60 - 133
Benzene	9.0		20.0	26.5		ug/L		87	71 - 126
Bromoform	1.0	U	20.0	18.2		ug/L		91	58 - 128
Bromomethane	1.0	U	20.0	14.6		ug/L		73	33 - 150
Carbon disulfide	2.9		20.0	17.6		ug/L		73	35 - 150
Carbon tetrachloride	1.0	U	20.0	14.6		ug/L		73	65 - 131
Chlorobenzene	1.0	U	20.0	17.1		ug/L		85	80 - 120
Chlorobromomethane	1.0	U	20.0	15.1		ug/L		76	71 - 134
Chlorodibromomethane	1.0	U	20.0	17.6		ug/L		88	73 - 121
Chloroethane	1.0	U	20.0	30.7	*	ug/L		153	54 - 150
Chloroform	1.0	U	20.0	17.3		ug/L		86	78 - 125
Chloromethane	1.0	U	20.0	24.7		ug/L		123	43 - 149
cis-1,2-Dichloroethene	1.0	U	20.0	15.9		ug/L		79	78 - 121
cis-1,3-Dichloropropene	1.0	U	20.0	19.1		ug/L		96	74 - 125
Cyclohexane	1.0	U	20.0	12.7	*	ug/L		63	64 - 142
Dichlorobromomethane	1.0	U	20.0	17.2		ug/L		86	76 - 121
Dichlorodifluoromethane	1.0	U	20.0	18.5		ug/L		93	38 - 144
Ethylbenzene	1.9		20.0	18.5		ug/L		83	78 - 120
Ethylene Dibromide	1.0	U	20.0	18.7		ug/L		94	79 - 126
Isopropylbenzene	1.0	U	20.0	17.4		ug/L		87	79 - 125
Methyl acetate	5.0	U *	40.0	59.2	*	ug/L		148	50 - 147
Methyl tert-butyl ether	1.0	U	20.0	19.0		ug/L		95	72 - 131
Methylcyclohexane	1.0	U	20.0	12.8		ug/L		64	63 - 138
Methylene Chloride	1.0	U	20.0	16.0		ug/L		80	74 - 127
m-Xylene & p-Xylene	1.7		20.0	18.6		ug/L		85	78 - 120
o-Xylene	1.6		20.0	19.0		ug/L		87	78 - 120
Styrene	1.0	U	20.0	16.9		ug/L		85	82 - 127
Tetrachloroethene	1.0	U	20.0	14.1		ug/L		70	70 - 127
Toluene	1.9		20.0	19.3		ug/L		87	78 - 120
trans-1,2-Dichloroethene	1.0	U	20.0	14.9		ug/L		75	70 - 126
trans-1,3-Dichloropropene	1.0	U	20.0	19.1		ug/L		96	71 - 127
Trichloroethene	1.0	U	20.0	15.3		ug/L		77	73 - 121
Trichlorofluoromethane	1.0	U	20.0	20.0		ug/L		100	62 - 134
Vinyl chloride	1.0	U	20.0	22.7		ug/L		114	55 - 144

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

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: MW-01_20250122
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 128*
4-Bromofluorobenzene	*93*		*76 - 120*
Dibromofluoromethane (Surr)	*96*		*77 - 132*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: 460-319158-2 MSD
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: MW-01_20250122
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	20.0	18.8		ug/L		94	72 - 128	19	30
1,1,2,2-Tetrachloroethane	1.0	U	20.0	28.4	*	ug/L		142	63 - 139	18	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	20.0	13.4		ug/L		67	65 - 142	17	30
1,1,2-Trichloroethane	1.0	U	20.0	25.1		ug/L		125	74 - 125	23	30
1,1-Dichloroethane	1.0	U	20.0	23.1		ug/L		116	73 - 130	17	30
1,1-Dichloroethene	1.0	U	20.0	16.1		ug/L		80	68 - 133	19	30
1,2,3-Trichlorobenzene	1.0	U	20.0	28.2		ug/L		141	55 - 150	22	30
1,2,4-Trichlorobenzene	1.0	U	20.0	25.1		ug/L		126	67 - 132	20	30
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	25.9		ug/L		129	58 - 132	22	30
1,2-Dichlorobenzene	1.0	U	20.0	22.6		ug/L		113	80 - 120	17	30
1,2-Dichloroethane	1.0	U	20.0	24.7		ug/L		124	66 - 129	24	30
1,2-Dichloropropane	1.0	U	20.0	25.4		ug/L		127	72 - 128	22	30
1,3-Dichlorobenzene	1.0	U	20.0	22.7		ug/L		114	80 - 120	18	30
1,4-Dichlorobenzene	1.0	U	20.0	22.7		ug/L		113	80 - 120	22	30
2-Butanone (MEK)	36		100	132		ug/L		96	65 - 142	25	30
2-Hexanone	5.0	U	100	148	*	ug/L		148	72 - 134	28	30
4-Methyl-2-pentanone (MIBK)	5.0	U	100	138	*	ug/L		138	77 - 130	25	30
Acetone	53		100	166		ug/L		113	60 - 133	27	30
Benzene	9.0		20.0	31.4		ug/L		112	71 - 126	17	30
Bromoform	1.0	U	20.0	23.1		ug/L		115	58 - 128	24	30
Bromomethane	1.0	U	20.0	20.2	*	ug/L		101	33 - 150	32	30
Carbon disulfide	2.9		20.0	20.8		ug/L		90	35 - 150	17	30
Carbon tetrachloride	1.0	U	20.0	18.2		ug/L		91	65 - 131	22	30
Chlorobenzene	1.0	U	20.0	21.7		ug/L		108	80 - 120	24	30
Chlorobromomethane	1.0	U	20.0	18.2		ug/L		91	71 - 134	19	30
Chlorodibromomethane	1.0	U	20.0	22.0		ug/L		110	73 - 121	23	30
Chloroethane	1.0	U	20.0	22.3	*	ug/L		111	54 - 150	32	30
Chloroform	1.0	U	20.0	21.7		ug/L		108	78 - 125	23	30
Chloromethane	1.0	U	20.0	29.5		ug/L		147	43 - 149	18	30
cis-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	78 - 121	15	30
cis-1,3-Dichloropropene	1.0	U	20.0	24.1		ug/L		121	74 - 125	23	30
Cyclohexane	1.0	U	20.0	15.7		ug/L		79	64 - 142	22	30
Dichlorobromomethane	1.0	U	20.0	21.4		ug/L		107	76 - 121	22	30
Dichlorodifluoromethane	1.0	U	20.0	22.4		ug/L		112	38 - 144	19	30
Ethylbenzene	1.9		20.0	22.4		ug/L		103	78 - 120	19	30
Ethylene Dibromide	1.0	U	20.0	23.8		ug/L		119	79 - 126	24	30
Isopropylbenzene	1.0	U	20.0	21.9		ug/L		110	79 - 125	23	30
Methyl acetate	5.0	U *	40.0	73.3	*	ug/L		183	50 - 147	21	30

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

Lab Sample ID: 460-319158-2 MSD
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: MW-01_20250122
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether	1.0	U	20.0	23.5		ug/L		118	72 - 131	21	30
Methylcyclohexane	1.0	U	20.0	16.1		ug/L		80	63 - 138	23	30
Methylene Chloride	1.0	U	20.0	18.9		ug/L		94	74 - 127	17	30
m-Xylene & p-Xylene	1.7		20.0	23.1		ug/L		107	78 - 120	22	30
o-Xylene	1.6		20.0	23.3		ug/L		109	78 - 120	20	30
Styrene	1.0	U	20.0	21.1		ug/L		106	82 - 127	22	30
Tetrachloroethene	1.0	U	20.0	17.7		ug/L		88	70 - 127	22	30
Toluene	1.9		20.0	23.0		ug/L		105	78 - 120	17	30
trans-1,2-Dichloroethene	1.0	U	20.0	17.9		ug/L		89	70 - 126	18	30
trans-1,3-Dichloropropene	1.0	U	20.0	24.3		ug/L		121	71 - 127	24	30
Trichloroethene	1.0	U	20.0	18.4		ug/L		92	73 - 121	18	30
Trichlorofluoromethane	1.0	U	20.0	24.0		ug/L		120	62 - 134	18	30
Vinyl chloride	1.0	U	20.0	27.8		ug/L		139	55 - 144	20	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 128*
4-Bromofluorobenzene	*100*		*76 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 132*
Toluene-d8 (Surr)	*113*		*80 - 120*

Lab Sample ID: MB 460-1018632/9
Matrix: Water
Analysis Batch: 1018632

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	0.24	ug/L			01/29/25 19:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/29/25 19:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/29/25 19:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			01/29/25 19:56	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/29/25 19:56	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/29/25 19:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/29/25 19:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/29/25 19:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/29/25 19:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			01/29/25 19:56	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/29/25 19:56	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/29/25 19:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/29/25 19:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/29/25 19:56	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/29/25 19:56	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/29/25 19:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/29/25 19:56	1
Acetone	5.0	U	5.0	4.4	ug/L			01/29/25 19:56	1
Benzene	1.0	U	1.0	0.20	ug/L			01/29/25 19:56	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/29/25 19:56	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/29/25 19:56	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/29/25 19:56	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/29/25 19:56	1

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

Lab Sample ID: MB 460-1018632/9
Matrix: Water
Analysis Batch: 1018632

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/29/25 19:56	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/29/25 19:56	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/29/25 19:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/29/25 19:56	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/29/25 19:56	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/29/25 19:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/29/25 19:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/29/25 19:56	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/29/25 19:56	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/29/25 19:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/29/25 19:56	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/29/25 19:56	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/29/25 19:56	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/29/25 19:56	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			01/29/25 19:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			01/29/25 19:56	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			01/29/25 19:56	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/29/25 19:56	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			01/29/25 19:56	1
o-Xylene	1.0	U	1.0	0.36	ug/L			01/29/25 19:56	1
Styrene	1.0	U	1.0	0.42	ug/L			01/29/25 19:56	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/29/25 19:56	1
Toluene	1.0	U	1.0	0.38	ug/L			01/29/25 19:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/29/25 19:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/29/25 19:56	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/29/25 19:56	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/29/25 19:56	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/29/25 19:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 128*		*01/29/25 19:56*	*1*
4-Bromofluorobenzene	*110*		*76 - 120*		*01/29/25 19:56*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 132*		*01/29/25 19:56*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*01/29/25 19:56*	*1*

Lab Sample ID: LCS 460-1018632/4
Matrix: Water
Analysis Batch: 1018632

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	20.0	16.2		ug/L		81	72 - 128
1,1,2,2-Tetrachloroethane	20.0	17.1		ug/L		85	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	16.7		ug/L		83	65 - 142
1,1,2-Trichloroethane	20.0	18.7		ug/L		94	74 - 125
1,1-Dichloroethane	20.0	18.8		ug/L		94	73 - 130
1,1-Dichloroethene	20.0	15.3		ug/L		76	68 - 133
1,2,3-Trichlorobenzene	20.0	23.0		ug/L		115	55 - 150
1,2,4-Trichlorobenzene	20.0	21.4		ug/L		107	67 - 132

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

Lab Sample ID: LCS 460-1018632/4
Matrix: Water
Analysis Batch: 1018632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	20.0	17.0		ug/L		85	58 - 132
1,2-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 120
1,2-Dichloroethane	20.0	19.1		ug/L		95	66 - 129
1,2-Dichloropropane	20.0	19.5		ug/L		97	72 - 128
1,3-Dichlorobenzene	20.0	18.5		ug/L		92	80 - 120
1,4-Dichlorobenzene	20.0	17.8		ug/L		89	80 - 120
2-Butanone (MEK)	100	73.4		ug/L		73	65 - 142
2-Hexanone	100	111		ug/L		111	72 - 134
4-Methyl-2-pentanone (MIBK)	100	112		ug/L		112	77 - 130
Acetone	100	96.5		ug/L		97	60 - 133
Benzene	20.0	18.6		ug/L		93	71 - 126
Bromoform	20.0	20.0		ug/L		100	58 - 128
Bromomethane	20.0	11.8		ug/L		59	33 - 150
Carbon disulfide	20.0	15.1		ug/L		76	35 - 150
Carbon tetrachloride	20.0	16.7		ug/L		83	65 - 131
Chlorobenzene	20.0	17.6		ug/L		88	80 - 120
Chlorobromomethane	20.0	17.6		ug/L		88	71 - 134
Chlorodibromomethane	20.0	18.2		ug/L		91	73 - 121
Chloroethane	20.0	16.5		ug/L		83	54 - 150
Chloroform	20.0	17.5		ug/L		87	78 - 125
Chloromethane	20.0	19.0		ug/L		95	43 - 149
cis-1,2-Dichloroethene	20.0	16.1		ug/L		80	78 - 121
cis-1,3-Dichloropropene	20.0	18.2		ug/L		91	74 - 125
Cyclohexane	20.0	16.7		ug/L		83	64 - 142
Dichlorobromomethane	20.0	17.4		ug/L		87	76 - 121
Dichlorodifluoromethane	20.0	17.9		ug/L		89	38 - 144
Ethylbenzene	20.0	17.3		ug/L		87	78 - 120
Ethylene Dibromide	20.0	18.3		ug/L		91	79 - 126
Isopropylbenzene	20.0	17.8		ug/L		89	79 - 125
Methyl acetate	40.0	50.1		ug/L		125	50 - 147
Methyl tert-butyl ether	20.0	18.6		ug/L		93	72 - 131
Methylcyclohexane	20.0	17.0		ug/L		85	63 - 138
Methylene Chloride	20.0	16.3		ug/L		82	74 - 127
m-Xylene & p-Xylene	20.0	16.4		ug/L		82	78 - 120
o-Xylene	20.0	17.4		ug/L		87	78 - 120
Styrene	20.0	17.7		ug/L		89	82 - 127
Tetrachloroethene	20.0	18.1		ug/L		91	70 - 127
Toluene	20.0	16.7		ug/L		84	78 - 120
trans-1,2-Dichloroethene	20.0	16.1		ug/L		81	70 - 126
trans-1,3-Dichloropropene	20.0	17.5		ug/L		87	71 - 127
Trichloroethene	20.0	15.7		ug/L		78	73 - 121
Trichlorofluoromethane	20.0	16.2		ug/L		81	62 - 134
Vinyl chloride	20.0	17.1		ug/L		85	55 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 128*
4-Bromofluorobenzene	*111*		*76 - 120*
Dibromofluoromethane (Surr)	*94*		*77 - 132*

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

Lab Sample ID: LCS 460-1018632/4
Matrix: Water
Analysis Batch: 1018632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 460-1018632/5
Matrix: Water
Analysis Batch: 1018632

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	17.0		ug/L		85	72 - 128	5	30
1,1,2,2-Tetrachloroethane			20.0	18.5		ug/L		92	63 - 139	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	17.8		ug/L		89	65 - 142	7	30
1,1,2-Trichloroethane			20.0	19.4		ug/L		97	74 - 125	3	30
1,1-Dichloroethane			20.0	19.2		ug/L		96	73 - 130	2	30
1,1-Dichloroethene			20.0	16.3		ug/L		82	68 - 133	7	30
1,2,3-Trichlorobenzene			20.0	25.1		ug/L		125	55 - 150	9	30
1,2,4-Trichlorobenzene			20.0	23.8		ug/L		119	67 - 132	11	30
1,2-Dibromo-3-Chloropropane			20.0	19.3		ug/L		96	58 - 132	12	30
1,2-Dichlorobenzene			20.0	20.7		ug/L		103	80 - 120	10	30
1,2-Dichloroethane			20.0	19.6		ug/L		98	66 - 129	3	30
1,2-Dichloropropane			20.0	20.6		ug/L		103	72 - 128	6	30
1,3-Dichlorobenzene			20.0	20.2		ug/L		101	80 - 120	9	30
1,4-Dichlorobenzene			20.0	19.5		ug/L		98	80 - 120	9	30
2-Butanone (MEK)			100	81.1		ug/L		81	65 - 142	10	30
2-Hexanone			100	124		ug/L		124	72 - 134	11	30
4-Methyl-2-pentanone (MIBK)			100	120		ug/L		120	77 - 130	7	30
Acetone			100	107		ug/L		107	60 - 133	10	30
Benzene			20.0	19.1		ug/L		96	71 - 126	3	30
Bromoform			20.0	19.9		ug/L		99	58 - 128	1	30
Bromomethane			20.0	12.5		ug/L		62	33 - 150	5	30
Carbon disulfide			20.0	16.0		ug/L		80	35 - 150	5	30
Carbon tetrachloride			20.0	18.1		ug/L		91	65 - 131	8	30
Chlorobenzene			20.0	18.2		ug/L		91	80 - 120	3	30
Chlorobromomethane			20.0	18.9		ug/L		95	71 - 134	7	30
Chlorodibromomethane			20.0	19.1		ug/L		95	73 - 121	4	30
Chloroethane			20.0	16.3		ug/L		82	54 - 150	1	30
Chloroform			20.0	17.9		ug/L		90	78 - 125	3	30
Chloromethane			20.0	19.6		ug/L		98	43 - 149	3	30
cis-1,2-Dichloroethene			20.0	16.8		ug/L		84	78 - 121	4	30
cis-1,3-Dichloropropene			20.0	19.0		ug/L		95	74 - 125	5	30
Cyclohexane			20.0	17.3		ug/L		86	64 - 142	3	30
Dichlorobromomethane			20.0	17.7		ug/L		89	76 - 121	2	30
Dichlorodifluoromethane			20.0	18.9		ug/L		94	38 - 144	5	30
Ethylbenzene			20.0	18.1		ug/L		90	78 - 120	4	30
Ethylene Dibromide			20.0	18.7		ug/L		94	79 - 126	2	30
Isopropylbenzene			20.0	18.5		ug/L		93	79 - 125	4	30
Methyl acetate			40.0	49.3		ug/L		123	50 - 147	2	30
Methyl tert-butyl ether			20.0	18.8		ug/L		94	72 - 131	1	30
Methylcyclohexane			20.0	18.0		ug/L		90	63 - 138	6	30
Methylene Chloride			20.0	17.2		ug/L		86	74 - 127	5	30

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

Lab Sample ID: LCSD 460-1018632/5
Matrix: Water
Analysis Batch: 1018632

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
m-Xylene & p-Xylene			20.0	18.1		ug/L		91	78 - 120	10	30
o-Xylene			20.0	18.6		ug/L		93	78 - 120	6	30
Styrene			20.0	18.1		ug/L		90	82 - 127	2	30
Tetrachloroethene			20.0	19.5		ug/L		97	70 - 127	7	30
Toluene			20.0	17.4		ug/L		87	78 - 120	4	30
trans-1,2-Dichloroethene			20.0	16.5		ug/L		83	70 - 126	2	30
trans-1,3-Dichloropropene			20.0	17.5		ug/L		88	71 - 127	0	30
Trichloroethene			20.0	16.4		ug/L		82	73 - 121	5	30
Trichlorofluoromethane			20.0	17.6		ug/L		88	62 - 134	8	30
Vinyl chloride			20.0	18.1		ug/L		90	55 - 144	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 128*
4-Bromofluorobenzene	*111*		*76 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 132*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: MB 460-1017771/1-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dinitrophenol	40	U	40	11	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Chlorophenol	10	U	10	0.95	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Methylphenol	10	U	10	0.67	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Nitroaniline	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Nitrophenol	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 21:24	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		01/23/25 10:04	01/23/25 21:24	1
3-Nitroaniline	10	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 21:24	1
4,6-Dinitro-2-methylphenol	20	U	20	8.6	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Chloro-3-methylphenol	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Chloroaniline	10	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Methylphenol	10	U	10	0.65	ug/L		01/23/25 10:04	01/23/25 21:24	1

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

Lab Sample ID: MB 460-1017771/1-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	10	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Nitrophenol	20	U	20	4.0	ug/L		01/23/25 10:04	01/23/25 21:24	1
Acenaphthene	10	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
Acenaphthylene	10	U	10	0.82	ug/L		01/23/25 10:04	01/23/25 21:24	1
Acetophenone	10	U	10	2.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Anthracene	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Atrazine	2.0	U	2.0	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzaldehyde	10	U	10	2.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/23/25 10:04	01/23/25 21:24	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		01/23/25 10:04	01/23/25 21:24	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		01/23/25 10:04	01/23/25 21:24	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 21:24	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		01/23/25 10:04	01/23/25 21:24	1
Caprolactam	10	U	10	2.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
Carbazole	10	U	10	0.68	ug/L		01/23/25 10:04	01/23/25 21:24	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/23/25 10:04	01/23/25 21:24	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/23/25 10:04	01/23/25 21:24	1
Dibenzofuran	10	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
Diethyl phthalate	10	U	10	0.98	ug/L		01/23/25 10:04	01/23/25 21:24	1
Dimethyl phthalate	10	U	10	0.77	ug/L		01/23/25 10:04	01/23/25 21:24	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 21:24	1
Di-n-octyl phthalate	10	U	10	4.0	ug/L		01/23/25 10:04	01/23/25 21:24	1
Fluoranthene	10	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 21:24	1
Fluorene	10	U	10	0.91	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 21:24	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/23/25 10:04	01/23/25 21:24	1
Isophorone	10	U	10	0.80	ug/L		01/23/25 10:04	01/23/25 21:24	1
Naphthalene	2.0	U	2.0	0.54	ug/L		01/23/25 10:04	01/23/25 21:24	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		01/23/25 10:04	01/23/25 21:24	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		01/23/25 10:04	01/23/25 21:24	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		01/23/25 10:04	01/23/25 21:24	1
Pentachlorophenol	20	U	20	6.6	ug/L		01/23/25 10:04	01/23/25 21:24	1
Phenanthrene	10	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Phenol	10	U	10	0.29	ug/L		01/23/25 10:04	01/23/25 21:24	1
Pyrene	10	U	10	1.6	ug/L		01/23/25 10:04	01/23/25 21:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*37 - 150*	*01/23/25 10:04*	*01/23/25 21:24*	*1*
2-Fluorobiphenyl	*89*		*46 - 139*	*01/23/25 10:04*	*01/23/25 21:24*	*1*
2-Fluorophenol (Surr)	*54*		*16 - 80*	*01/23/25 10:04*	*01/23/25 21:24*	*1*
Nitrobenzene-d5 (Surr)	*91*		*51 - 145*	*01/23/25 10:04*	*01/23/25 21:24*	*1*

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

Lab Sample ID: MB 460-1017771/1-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017771

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	36		10 - 56	01/23/25 10:04	01/23/25 21:24	1
Terphenyl-d14 (Surr)	30		13 - 159	01/23/25 10:04	01/23/25 21:24	1

Lab Sample ID: LCS 460-1017771/2-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	91.6		ug/L		115	52 - 129
1,2,4,5-Tetrachlorobenzene	80.0	90.7		ug/L		113	40 - 136
2,2'-oxybis[1-chloropropane]	80.0	83.8		ug/L		105	47 - 133
2,3,4,6-Tetrachlorophenol	80.0	91.9		ug/L		115	63 - 131
2,4,5-Trichlorophenol	80.0	89.9		ug/L		112	63 - 124
2,4,6-Trichlorophenol	80.0	90.4		ug/L		113	66 - 131
2,4-Dichlorophenol	80.0	82.8		ug/L		104	60 - 120
2,4-Dimethylphenol	80.0	93.0		ug/L		116	37 - 120
2,4-Dinitrophenol	160	165		ug/L		103	50 - 148
2,4-Dinitrotoluene	80.0	97.0		ug/L		121	71 - 142
2,6-Dinitrotoluene	80.0	93.9		ug/L		117	71 - 136
2-Chloronaphthalene	80.0	89.4		ug/L		112	50 - 129
2-Chlorophenol	80.0	71.3		ug/L		89	49 - 120
2-Methylnaphthalene	80.0	77.8		ug/L		97	42 - 134
2-Methylphenol	80.0	64.3		ug/L		80	35 - 120
2-Nitroaniline	80.0	89.0		ug/L		111	57 - 134
2-Nitrophenol	80.0	85.9		ug/L		107	62 - 124
3,3'-Dichlorobenzidine	80.0	80.5		ug/L		101	55 - 145
3-Nitroaniline	80.0	71.5		ug/L		89	51 - 120
4,6-Dinitro-2-methylphenol	160	183		ug/L		115	65 - 145
4-Bromophenyl phenyl ether	80.0	90.6		ug/L		113	59 - 132
4-Chloro-3-methylphenol	80.0	77.1		ug/L		96	54 - 120
4-Chloroaniline	80.0	66.0		ug/L		82	43 - 120
4-Chlorophenyl phenyl ether	80.0	91.7		ug/L		115	65 - 127
4-Methylphenol	80.0	55.8		ug/L		70	28 - 120
4-Nitroaniline	80.0	88.7		ug/L		111	57 - 135
4-Nitrophenol	160	76.9		ug/L		48	10 - 120
Acenaphthene	80.0	91.0		ug/L		114	62 - 127
Acenaphthylene	80.0	96.2		ug/L		120	58 - 122
Acetophenone	80.0	86.4		ug/L		108	65 - 125
Anthracene	80.0	91.9		ug/L		115	67 - 127
Atrazine	40.0	76.4	*	ug/L		191	13 - 150
Benzaldehyde	40.0	65.0	*	ug/L		163	10 - 150
Benzo[a]anthracene	80.0	89.0		ug/L		111	71 - 131
Benzo[a]pyrene	80.0	107		ug/L		134	75 - 148
Benzo[b]fluoranthene	80.0	94.1		ug/L		118	70 - 140
Benzo[g,h,i]perylene	80.0	103		ug/L		129	52 - 143
Benzo[k]fluoranthene	80.0	101		ug/L		127	71 - 140
Bis(2-chloroethoxy)methane	80.0	88.6		ug/L		111	63 - 122
Bis(2-chloroethyl)ether	80.0	85.6		ug/L		107	61 - 125

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

Lab Sample ID: LCS 460-1017771/2-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	80.0	93.5		ug/L		117	65 - 144
Butyl benzyl phthalate	80.0	89.1		ug/L		111	67 - 141
Caprolactam	40.0	13.8		ug/L		35	10 - 120
Carbazole	80.0	91.4		ug/L		114	68 - 132
Chrysene	80.0	91.3		ug/L		114	70 - 132
Dibenz(a,h)anthracene	80.0	99.2		ug/L		124	53 - 150
Dibenzofuran	80.0	90.7		ug/L		113	64 - 125
Diethyl phthalate	80.0	88.0		ug/L		110	67 - 131
Dimethyl phthalate	80.0	91.1		ug/L		114	67 - 129
Di-n-butyl phthalate	80.0	88.1		ug/L		110	71 - 139
Di-n-octyl phthalate	80.0	92.9		ug/L		116	51 - 150
Fluoranthene	80.0	92.8		ug/L		116	69 - 137
Fluorene	80.0	94.0		ug/L		117	67 - 125
Hexachlorobenzene	80.0	90.9		ug/L		114	62 - 135
Hexachlorobutadiene	80.0	88.7		ug/L		111	10 - 147
Hexachlorocyclopentadiene	80.0	116	*	ug/L		146	10 - 135
Hexachloroethane	80.0	86.5		ug/L		108	10 - 138
Indeno[1,2,3-cd]pyrene	80.0	99.5		ug/L		124	59 - 150
Isophorone	80.0	91.9		ug/L		115	65 - 128
Naphthalene	80.0	88.3		ug/L		110	39 - 126
Nitrobenzene	80.0	91.0		ug/L		114	66 - 127
N-Nitrosodi-n-propylamine	80.0	89.4		ug/L		112	63 - 133
N-Nitrosodiphenylamine	80.0	90.3		ug/L		113	66 - 128
Pentachlorophenol	160	180		ug/L		112	60 - 140
Phenanthrene	80.0	90.1		ug/L		113	68 - 126
Phenol	80.0	31.0		ug/L		39	10 - 80
Pyrene	80.0	87.8		ug/L		110	60 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*111*		*37 - 150*
2-Fluorobiphenyl	*111*		*46 - 139*
2-Fluorophenol (Surr)	*54*		*16 - 80*
Nitrobenzene-d5 (Surr)	*110*		*51 - 145*
Phenol-d5 (Surr)	*36*		*10 - 56*
Terphenyl-d14 (Surr)	*84*		*13 - 159*

Lab Sample ID: LCSD 460-1017771/3-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	82.9		ug/L		104	52 - 129	10	30
1,2,4,5-Tetrachlorobenzene	80.0	81.2		ug/L		101	40 - 136	11	30
2,2'-oxybis[1-chloropropane]	80.0	77.5		ug/L		97	47 - 133	8	30
2,3,4,6-Tetrachlorophenol	80.0	82.5		ug/L		103	63 - 131	11	30
2,4,5-Trichlorophenol	80.0	80.8		ug/L		101	63 - 124	11	30
2,4,6-Trichlorophenol	80.0	83.8		ug/L		105	66 - 131	8	30
2,4-Dichlorophenol	80.0	76.9		ug/L		96	60 - 120	7	30

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

Lab Sample ID: LCSD 460-1017771/3-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dimethylphenol	80.0	86.4		ug/L		108	37 - 120	7	30
2,4-Dinitrophenol	160	155		ug/L		97	50 - 148	6	30
2,4-Dinitrotoluene	80.0	86.8		ug/L		108	71 - 142	11	30
2,6-Dinitrotoluene	80.0	85.7		ug/L		107	71 - 136	9	30
2-Chloronaphthalene	80.0	80.9		ug/L		101	50 - 129	10	30
2-Chlorophenol	80.0	68.2		ug/L		85	49 - 120	4	30
2-Methylnaphthalene	80.0	71.2		ug/L		89	42 - 134	9	30
2-Methylphenol	80.0	62.6		ug/L		78	35 - 120	3	30
2-Nitroaniline	80.0	81.7		ug/L		102	57 - 134	9	30
2-Nitrophenol	80.0	77.4		ug/L		97	62 - 124	10	30
3,3'-Dichlorobenzidine	80.0	63.9		ug/L		80	55 - 145	23	30
3-Nitroaniline	80.0	60.2		ug/L		75	51 - 120	17	30
4,6-Dinitro-2-methylphenol	160	172		ug/L		107	65 - 145	7	30
4-Bromophenyl phenyl ether	80.0	82.9		ug/L		104	59 - 132	9	30
4-Chloro-3-methylphenol	80.0	74.1		ug/L		93	54 - 120	4	30
4-Chloroaniline	80.0	49.4		ug/L		62	43 - 120	29	30
4-Chlorophenyl phenyl ether	80.0	82.5		ug/L		103	65 - 127	10	30
4-Methylphenol	80.0	56.8		ug/L		71	28 - 120	2	30
4-Nitroaniline	80.0	78.0		ug/L		97	57 - 135	13	30
4-Nitrophenol	160	88.2		ug/L		55	10 - 120	14	30
Acenaphthene	80.0	81.5		ug/L		102	62 - 127	11	30
Acenaphthylene	80.0	86.5		ug/L		108	58 - 122	11	30
Acetophenone	80.0	80.0		ug/L		100	65 - 125	8	30
Anthracene	80.0	83.3		ug/L		104	67 - 127	10	30
Atrazine	40.0	50.8	*	ug/L		127	13 - 150	40	30
Benzaldehyde	40.0	45.5	*	ug/L		114	10 - 150	35	30
Benzo[a]anthracene	80.0	81.3		ug/L		102	71 - 131	9	30
Benzo[a]pyrene	80.0	95.0		ug/L		119	75 - 148	12	30
Benzo[b]fluoranthene	80.0	85.1		ug/L		106	70 - 140	10	30
Benzo[g,h,i]perylene	80.0	93.7		ug/L		117	52 - 143	10	30
Benzo[k]fluoranthene	80.0	89.5		ug/L		112	71 - 140	12	30
Bis(2-chloroethoxy)methane	80.0	80.4		ug/L		100	63 - 122	10	30
Bis(2-chloroethyl)ether	80.0	77.3		ug/L		97	61 - 125	10	30
Bis(2-ethylhexyl) phthalate	80.0	85.3		ug/L		107	65 - 144	9	30
Butyl benzyl phthalate	80.0	81.8		ug/L		102	67 - 141	9	30
Caprolactam	40.0	11.0		ug/L		27	10 - 120	23	30
Carbazole	80.0	82.9		ug/L		104	68 - 132	10	30
Chrysene	80.0	81.2		ug/L		101	70 - 132	12	30
Dibenz(a,h)anthracene	80.0	90.1		ug/L		113	53 - 150	10	30
Dibenzofuran	80.0	81.0		ug/L		101	64 - 125	11	30
Diethyl phthalate	80.0	78.7		ug/L		98	67 - 131	11	30
Dimethyl phthalate	80.0	82.8		ug/L		103	67 - 129	10	30
Di-n-butyl phthalate	80.0	79.5		ug/L		99	71 - 139	10	30
Di-n-octyl phthalate	80.0	84.3		ug/L		105	51 - 150	10	30
Fluoranthene	80.0	84.9		ug/L		106	69 - 137	9	30
Fluorene	80.0	84.8		ug/L		106	67 - 125	10	30
Hexachlorobenzene	80.0	82.8		ug/L		104	62 - 135	9	30
Hexachlorobutadiene	80.0	80.1		ug/L		100	10 - 147	10	30
Hexachlorocyclopentadiene	80.0	106		ug/L		132	10 - 135	9	30

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

Lab Sample ID: LCSD 460-1017771/3-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017771

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachloroethane			80.0	80.4		ug/L		101	10 - 138	7	30
Indeno[1,2,3-cd]pyrene			80.0	91.0		ug/L		114	59 - 150	9	30
Isophorone			80.0	82.3		ug/L		103	65 - 128	11	30
Naphthalene			80.0	79.8		ug/L		100	39 - 126	10	30
Nitrobenzene			80.0	80.4		ug/L		101	66 - 127	12	30
N-Nitrosodi-n-propylamine			80.0	80.9		ug/L		101	63 - 133	10	30
N-Nitrosodiphenylamine			80.0	84.4		ug/L		105	66 - 128	7	30
Pentachlorophenol			160	168		ug/L		105	60 - 140	7	30
Phenanthrene			80.0	81.6		ug/L		102	68 - 126	10	30
Phenol			80.0	33.8		ug/L		42	10 - 80	9	30
Pyrene			80.0	80.7		ug/L		101	60 - 137	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*37 - 150*
2-Fluorobiphenyl	*96*		*46 - 139*
2-Fluorophenol (Surr)	*55*		*16 - 80*
Nitrobenzene-d5 (Surr)	*96*		*51 - 145*
Phenol-d5 (Surr)	*38*		*10 - 56*
Terphenyl-d14 (Surr)	*70*		*13 - 159*

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	10	U	40.0	50.6		ug/L		126	52 - 129
1,2,4,5-Tetrachlorobenzene	10	U	40.0	47.8		ug/L		119	40 - 136
2,2'-oxybis[1-chloropropane]	10	U	40.0	47.5		ug/L		119	47 - 133
2,3,4,6-Tetrachlorophenol	10	U	40.0	49.2		ug/L		123	63 - 131
2,4,5-Trichlorophenol	10	U	40.0	49.3		ug/L		123	63 - 124
2,4,6-Trichlorophenol	10	U	40.0	50.3		ug/L		126	66 - 131
2,4-Dichlorophenol	10	U	40.0	45.3		ug/L		113	60 - 120
2,4-Dimethylphenol	0.72	J	40.0	55.0	*	ug/L		136	37 - 120
2,4-Dinitrophenol	40	U	80.0	86.5		ug/L		108	50 - 148
2,4-Dinitrotoluene	10	U	40.0	53.0		ug/L		133	71 - 142
2,6-Dinitrotoluene	2.0	U	40.0	51.6		ug/L		129	71 - 136
2-Chloronaphthalene	10	U	40.0	49.0		ug/L		123	50 - 129
2-Chlorophenol	10	U	40.0	40.7		ug/L		102	49 - 120
2-Methylnaphthalene	2.2	J	40.0	45.0		ug/L		107	42 - 134
2-Methylphenol	1.0	J	40.0	39.9		ug/L		97	35 - 120
2-Nitroaniline	10	U	40.0	48.7		ug/L		122	57 - 134
2-Nitrophenol	10	U	40.0	47.6		ug/L		119	62 - 124
3,3'-Dichlorobenzidine	10	U	40.0	28.0		ug/L		70	55 - 145
3-Nitroaniline	10	U	40.0	26.8		ug/L		67	51 - 120
4,6-Dinitro-2-methylphenol	20	U	80.0	101		ug/L		127	65 - 145
4-Bromophenyl phenyl ether	10	U	40.0	49.2		ug/L		123	59 - 132
4-Chloro-3-methylphenol	10	U	40.0	44.2		ug/L		111	54 - 120
4-Chloroaniline	10	U	40.0	19.7		ug/L		49	43 - 120

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

Lab Sample ID: 460-319158-2 MS
Client Sample ID: MW-01_20250122
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 1017857
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorophenyl phenyl ether	10	U	40.0	49.2		ug/L		123	65 - 127
4-Methylphenol	0.83	J	40.0	35.5		ug/L		87	28 - 120
4-Nitroaniline	10	U	40.0	44.6		ug/L		111	57 - 135
4-Nitrophenol	20	U	80.0	52.1		ug/L		65	10 - 120
Acenaphthene	5.6	J	40.0	56.2		ug/L		126	62 - 127
Acenaphthylene	10	U	40.0	51.7	*	ug/L		129	58 - 122
Acetophenone	10	U	40.0	49.1		ug/L		123	65 - 125
Anthracene	2.8	J	40.0	52.2		ug/L		124	67 - 127
Atrazine	2.0	U *	40.0	66.7	E *	ug/L		167	13 - 150
Benzaldehyde	10	U *	40.0	57.9	E	ug/L		145	10 - 150
Benzo[a]anthracene	1.0	U	40.0	49.9		ug/L		125	71 - 131
Benzo[a]pyrene	1.0	U	40.0	56.2		ug/L		141	75 - 148
Benzo[b]fluoranthene	2.0	U	40.0	52.9		ug/L		132	70 - 140
Benzo[g,h,i]perylene	10	U	40.0	54.8		ug/L		137	52 - 143
Benzo[k]fluoranthene	1.0	U	40.0	51.2		ug/L		128	71 - 140
Bis(2-chloroethoxy)methane	10	U	40.0	48.7		ug/L		122	63 - 122
Bis(2-chloroethyl)ether	1.0	U	40.0	47.4		ug/L		118	61 - 125
Bis(2-ethylhexyl) phthalate	2.0	U	40.0	53.6		ug/L		134	65 - 144
Butyl benzyl phthalate	10	U	40.0	53.0		ug/L		133	67 - 141
Caprolactam	10	U	40.0	14.2		ug/L		35	10 - 120
Carbazole	7.2	J	40.0	58.9		ug/L		129	68 - 132
Chrysene	2.0	U	40.0	50.1		ug/L		125	70 - 132
Dibenz(a,h)anthracene	1.0	U	40.0	51.5		ug/L		129	53 - 150
Dibenzofuran	5.4	J	40.0	54.8		ug/L		124	64 - 125
Diethyl phthalate	10	U	40.0	48.8		ug/L		122	67 - 131
Dimethyl phthalate	10	U	40.0	49.8		ug/L		125	67 - 129
Di-n-butyl phthalate	10	U	40.0	50.7		ug/L		127	71 - 139
Di-n-octyl phthalate	10	U	40.0	54.6		ug/L		136	51 - 150
Fluoranthene	4.2	J	40.0	59.4	*	ug/L		138	69 - 137
Fluorene	8.5	J	40.0	60.3	*	ug/L		130	67 - 125
Hexachlorobenzene	1.0	U	40.0	49.6		ug/L		124	62 - 135
Hexachlorobutadiene	1.0	U	40.0	47.1		ug/L		118	10 - 147
Hexachlorocyclopentadiene	10	U *	40.0	56.6	*	ug/L		141	10 - 135
Hexachloroethane	2.0	U	40.0	46.9		ug/L		117	10 - 138
Indeno[1,2,3-cd]pyrene	2.0	U	40.0	53.3		ug/L		133	59 - 150
Isophorone	10	U	40.0	50.5		ug/L		126	65 - 128
Naphthalene	21		40.0	75.9	*	ug/L		137	39 - 126
Nitrobenzene	1.0	U	40.0	50.4		ug/L		126	66 - 127
N-Nitrosodi-n-propylamine	1.0	U	40.0	50.1		ug/L		125	63 - 133
N-Nitrosodiphenylamine	10	U	40.0	49.9		ug/L		125	66 - 128
Pentachlorophenol	20	U	80.0	97.7		ug/L		122	60 - 140
Phenanthrene	18		40.0	70.9	*	ug/L		133	68 - 126
Phenol	0.94	J	40.0	20.2		ug/L		48	10 - 80
Pyrene	2.8	J	40.0	53.0		ug/L		125	60 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*105*		*37 - 150*
2-Fluorobiphenyl	*106*		*46 - 139*

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

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017771

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol (Surr)	61		16 - 80
Nitrobenzene-d5 (Surr)	106		51 - 145
Phenol-d5 (Surr)	41		10 - 56
Terphenyl-d14 (Surr)	51		13 - 159

Lab Sample ID: 460-319158-2 MSD
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	10	U	40.0	46.1		ug/L		115	52 - 129	9	30
1,2,4,5-Tetrachlorobenzene	10	U	40.0	42.3		ug/L		106	40 - 136	12	30
2,2'-oxybis[1-chloropropane]	10	U	40.0	44.4		ug/L		111	47 - 133	7	30
2,3,4,6-Tetrachlorophenol	10	U	40.0	45.2		ug/L		113	63 - 131	8	30
2,4,5-Trichlorophenol	10	U	40.0	44.5		ug/L		111	63 - 124	10	30
2,4,6-Trichlorophenol	10	U	40.0	46.4		ug/L		116	66 - 131	8	30
2,4-Dichlorophenol	10	U	40.0	41.6		ug/L		104	60 - 120	9	30
2,4-Dimethylphenol	0.72	J	40.0	49.3	*	ug/L		121	37 - 120	11	30
2,4-Dinitrophenol	40	U	80.0	80.2		ug/L		100	50 - 148	8	30
2,4-Dinitrotoluene	10	U	40.0	49.8		ug/L		125	71 - 142	6	30
2,6-Dinitrotoluene	2.0	U	40.0	47.7		ug/L		119	71 - 136	8	30
2-Chloronaphthalene	10	U	40.0	44.9		ug/L		112	50 - 129	9	30
2-Chlorophenol	10	U	40.0	37.3		ug/L		93	49 - 120	9	30
2-Methylnaphthalene	2.2	J	40.0	41.9		ug/L		99	42 - 134	7	30
2-Methylphenol	1.0	J	40.0	33.8		ug/L		82	35 - 120	17	30
2-Nitroaniline	10	U	40.0	46.2		ug/L		115	57 - 134	5	30
2-Nitrophenol	10	U	40.0	43.7		ug/L		109	62 - 124	9	30
3,3'-Dichlorobenzidine	10	U	40.0	24.7		ug/L		62	55 - 145	12	30
3-Nitroaniline	10	U	40.0	23.3		ug/L		58	51 - 120	14	30
4,6-Dinitro-2-methylphenol	20	U	80.0	95.2		ug/L		119	65 - 145	6	30
4-Bromophenyl phenyl ether	10	U	40.0	44.4		ug/L		111	59 - 132	10	30
4-Chloro-3-methylphenol	10	U	40.0	41.2		ug/L		103	54 - 120	7	30
4-Chloroaniline	10	U	40.0	18.9		ug/L		47	43 - 120	4	30
4-Chlorophenyl phenyl ether	10	U	40.0	45.3		ug/L		113	65 - 127	8	30
4-Methylphenol	0.83	J	40.0	30.5		ug/L		74	28 - 120	15	30
4-Nitroaniline	10	U	40.0	40.8		ug/L		102	57 - 135	9	30
4-Nitrophenol	20	U	80.0	41.0		ug/L		51	10 - 120	24	30
Acenaphthene	5.6	J	40.0	50.6		ug/L		112	62 - 127	11	30
Acenaphthylene	10	U	40.0	47.0		ug/L		117	58 - 122	10	30
Acetophenone	10	U	40.0	46.1		ug/L		115	65 - 125	6	30
Anthracene	2.8	J	40.0	48.0		ug/L		113	67 - 127	8	30
Atrazine	2.0	U *	40.0	66.6	E *	ug/L		167	13 - 150	0	30
Benzaldehyde	10	U *	40.0	63.4	E *	ug/L		158	10 - 150	9	30
Benzo[a]anthracene	1.0	U	40.0	45.7		ug/L		114	71 - 131	9	30
Benzo[a]pyrene	1.0	U	40.0	52.2		ug/L		130	75 - 148	7	30
Benzo[b]fluoranthene	2.0	U	40.0	48.7		ug/L		122	70 - 140	8	30
Benzo[g,h,i]perylene	10	U	40.0	49.5		ug/L		124	52 - 143	10	30
Benzo[k]fluoranthene	1.0	U	40.0	47.3		ug/L		118	71 - 140	8	30

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

Lab Sample ID: 460-319158-2 MSD
Client Sample ID: MW-01_20250122
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 1017857
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	10	U	40.0	45.4		ug/L		114	63 - 122	7	30
Bis(2-chloroethyl)ether	1.0	U	40.0	44.1		ug/L		110	61 - 125	7	30
Bis(2-ethylhexyl) phthalate	2.0	U	40.0	49.6		ug/L		124	65 - 144	8	30
Butyl benzyl phthalate	10	U	40.0	48.1		ug/L		120	67 - 141	10	30
Caprolactam	10	U	40.0	13.4		ug/L		34	10 - 120	5	30
Carbazole	7.2	J	40.0	53.5		ug/L		116	68 - 132	10	30
Chrysene	2.0	U	40.0	45.8		ug/L		114	70 - 132	9	30
Dibenz(a,h)anthracene	1.0	U	40.0	46.1		ug/L		115	53 - 150	11	30
Dibenzofuran	5.4	J	40.0	50.3		ug/L		112	64 - 125	9	30
Diethyl phthalate	10	U	40.0	44.9		ug/L		112	67 - 131	8	30
Dimethyl phthalate	10	U	40.0	46.2		ug/L		115	67 - 129	8	30
Di-n-butyl phthalate	10	U	40.0	46.1		ug/L		115	71 - 139	9	30
Di-n-octyl phthalate	10	U	40.0	49.1		ug/L		123	51 - 150	11	30
Fluoranthene	4.2	J	40.0	53.0		ug/L		122	69 - 137	11	30
Fluorene	8.5	J	40.0	55.0		ug/L		116	67 - 125	9	30
Hexachlorobenzene	1.0	U	40.0	44.8		ug/L		112	62 - 135	10	30
Hexachlorobutadiene	1.0	U	40.0	42.9		ug/L		107	10 - 147	9	30
Hexachlorocyclopentadiene	10	U *	40.0	51.7		ug/L		129	10 - 135	9	30
Hexachloroethane	2.0	U	40.0	43.4		ug/L		108	10 - 138	8	30
Indeno[1,2,3-cd]pyrene	2.0	U	40.0	48.4		ug/L		121	59 - 150	10	30
Isophorone	10	U	40.0	47.5		ug/L		119	65 - 128	6	30
Naphthalene	21		40.0	64.8		ug/L		109	39 - 126	16	30
Nitrobenzene	1.0	U	40.0	46.8		ug/L		117	66 - 127	7	30
N-Nitrosodi-n-propylamine	1.0	U	40.0	46.9		ug/L		117	63 - 133	7	30
N-Nitrosodiphenylamine	10	U	40.0	46.0		ug/L		115	66 - 128	8	30
Pentachlorophenol	20	U	80.0	91.0		ug/L		114	60 - 140	7	30
Phenanthrene	18		40.0	61.4		ug/L		109	68 - 126	14	30
Phenol	0.94	J	40.0	16.7		ug/L		40	10 - 80	19	30
Pyrene	2.8	J	40.0	48.0		ug/L		113	60 - 137	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*37 - 150*
2-Fluorobiphenyl	*99*		*46 - 139*
2-Fluorophenol (Surr)	*53*		*16 - 80*
Nitrobenzene-d5 (Surr)	*103*		*51 - 145*
Phenol-d5 (Surr)	*34*		*10 - 56*
Terphenyl-d14 (Surr)	*41*		*13 - 159*

Lab Sample ID: MB 460-1018383/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 1018391
Prep Batch: 1018383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		01/28/25 10:02	01/28/25 12:21	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		01/28/25 10:02	01/28/25 12:21	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		01/28/25 10:02	01/28/25 12:21	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		01/28/25 10:02	01/28/25 12:21	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		01/28/25 10:02	01/28/25 12:21	1

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

Lab Sample ID: MB 460-1018383/1-A
Matrix: Water
Analysis Batch: 1018391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		01/28/25 10:02	01/28/25 12:21	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		01/28/25 10:02	01/28/25 12:21	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		01/28/25 10:02	01/28/25 12:21	1
2,4-Dinitrophenol	40	U	40	11	ug/L		01/28/25 10:02	01/28/25 12:21	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		01/28/25 10:02	01/28/25 12:21	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		01/28/25 10:02	01/28/25 12:21	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		01/28/25 10:02	01/28/25 12:21	1
2-Chlorophenol	10	U	10	0.95	ug/L		01/28/25 10:02	01/28/25 12:21	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		01/28/25 10:02	01/28/25 12:21	1
2-Methylphenol	10	U	10	0.67	ug/L		01/28/25 10:02	01/28/25 12:21	1
2-Nitroaniline	10	U	10	1.2	ug/L		01/28/25 10:02	01/28/25 12:21	1
2-Nitrophenol	10	U	10	0.75	ug/L		01/28/25 10:02	01/28/25 12:21	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		01/28/25 10:02	01/28/25 12:21	1
3-Nitroaniline	10	U	10	1.9	ug/L		01/28/25 10:02	01/28/25 12:21	1
4,6-Dinitro-2-methylphenol	20	U	20	8.6	ug/L		01/28/25 10:02	01/28/25 12:21	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		01/28/25 10:02	01/28/25 12:21	1
4-Chloro-3-methylphenol	10	U	10	1.3	ug/L		01/28/25 10:02	01/28/25 12:21	1
4-Chloroaniline	10	U	10	1.9	ug/L		01/28/25 10:02	01/28/25 12:21	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		01/28/25 10:02	01/28/25 12:21	1
4-Methylphenol	10	U	10	0.65	ug/L		01/28/25 10:02	01/28/25 12:21	1
4-Nitroaniline	10	U	10	1.2	ug/L		01/28/25 10:02	01/28/25 12:21	1
4-Nitrophenol	20	U	20	4.0	ug/L		01/28/25 10:02	01/28/25 12:21	1
Acenaphthene	10	U	10	1.1	ug/L		01/28/25 10:02	01/28/25 12:21	1
Acenaphthylene	10	U	10	0.82	ug/L		01/28/25 10:02	01/28/25 12:21	1
Acetophenone	10	U	10	2.3	ug/L		01/28/25 10:02	01/28/25 12:21	1
Anthracene	10	U	10	1.3	ug/L		01/28/25 10:02	01/28/25 12:21	1
Atrazine	2.0	U	2.0	1.3	ug/L		01/28/25 10:02	01/28/25 12:21	1
Benzaldehyde	10	U	10	2.1	ug/L		01/28/25 10:02	01/28/25 12:21	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/28/25 10:02	01/28/25 12:21	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/28/25 10:02	01/28/25 12:21	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/28/25 10:02	01/28/25 12:21	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		01/28/25 10:02	01/28/25 12:21	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/28/25 10:02	01/28/25 12:21	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		01/28/25 10:02	01/28/25 12:21	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		01/28/25 10:02	01/28/25 12:21	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		01/28/25 10:02	01/28/25 12:21	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		01/28/25 10:02	01/28/25 12:21	1
Caprolactam	10	U	10	2.2	ug/L		01/28/25 10:02	01/28/25 12:21	1
Carbazole	10	U	10	0.68	ug/L		01/28/25 10:02	01/28/25 12:21	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/28/25 10:02	01/28/25 12:21	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/28/25 10:02	01/28/25 12:21	1
Dibenzofuran	10	U	10	1.1	ug/L		01/28/25 10:02	01/28/25 12:21	1
Diethyl phthalate	10	U	10	0.98	ug/L		01/28/25 10:02	01/28/25 12:21	1
Dimethyl phthalate	10	U	10	0.77	ug/L		01/28/25 10:02	01/28/25 12:21	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		01/28/25 10:02	01/28/25 12:21	1
Di-n-octyl phthalate	10	U	10	4.0	ug/L		01/28/25 10:02	01/28/25 12:21	1
Fluoranthene	10	U	10	0.84	ug/L		01/28/25 10:02	01/28/25 12:21	1
Fluorene	10	U	10	0.91	ug/L		01/28/25 10:02	01/28/25 12:21	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/28/25 10:02	01/28/25 12:21	1

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

Lab Sample ID: MB 460-1018383/1-A
Matrix: Water
Analysis Batch: 1018391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		01/28/25 10:02	01/28/25 12:21	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		01/28/25 10:02	01/28/25 12:21	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		01/28/25 10:02	01/28/25 12:21	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/28/25 10:02	01/28/25 12:21	1
Isophorone	10	U	10	0.80	ug/L		01/28/25 10:02	01/28/25 12:21	1
Naphthalene	2.0	U	2.0	0.54	ug/L		01/28/25 10:02	01/28/25 12:21	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		01/28/25 10:02	01/28/25 12:21	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		01/28/25 10:02	01/28/25 12:21	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		01/28/25 10:02	01/28/25 12:21	1
Pentachlorophenol	20	U	20	6.6	ug/L		01/28/25 10:02	01/28/25 12:21	1
Phenanthrene	10	U	10	1.3	ug/L		01/28/25 10:02	01/28/25 12:21	1
Phenol	10	U	10	0.29	ug/L		01/28/25 10:02	01/28/25 12:21	1
Pyrene	10	U	10	1.6	ug/L		01/28/25 10:02	01/28/25 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*37 - 150*	*01/28/25 10:02*	*01/28/25 12:21*	*1*
2-Fluorobiphenyl	*89*		*46 - 139*	*01/28/25 10:02*	*01/28/25 12:21*	*1*
2-Fluorophenol (Surr)	*46*		*16 - 80*	*01/28/25 10:02*	*01/28/25 12:21*	*1*
Nitrobenzene-d5 (Surr)	*97*		*51 - 145*	*01/28/25 10:02*	*01/28/25 12:21*	*1*
Phenol-d5 (Surr)	*29*		*10 - 56*	*01/28/25 10:02*	*01/28/25 12:21*	*1*
Terphenyl-d14 (Surr)	*85*		*13 - 159*	*01/28/25 10:02*	*01/28/25 12:21*	*1*

Lab Sample ID: LCS 460-1018383/2-A
Matrix: Water
Analysis Batch: 1018391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	69.4		ug/L		87	52 - 129
1,2,4,5-Tetrachlorobenzene	80.0	67.0		ug/L		84	40 - 136
2,2'-oxybis[1-chloropropane]	80.0	68.2		ug/L		85	47 - 133
2,3,4,6-Tetrachlorophenol	80.0	75.0		ug/L		94	63 - 131
2,4,5-Trichlorophenol	80.0	69.5		ug/L		87	63 - 124
2,4,6-Trichlorophenol	80.0	70.4		ug/L		88	66 - 131
2,4-Dichlorophenol	80.0	66.9		ug/L		84	60 - 120
2,4-Dimethylphenol	80.0	75.4		ug/L		94	37 - 120
2,4-Dinitrophenol	160	145		ug/L		90	50 - 148
2,4-Dinitrotoluene	80.0	83.1		ug/L		104	71 - 142
2,6-Dinitrotoluene	80.0	78.9		ug/L		99	71 - 136
2-Chloronaphthalene	80.0	67.3		ug/L		84	50 - 129
2-Chlorophenol	80.0	58.6		ug/L		73	49 - 120
2-Methylnaphthalene	80.0	63.7		ug/L		80	42 - 134
2-Methylphenol	80.0	53.3		ug/L		67	35 - 120
2-Nitroaniline	80.0	72.7		ug/L		91	57 - 134
2-Nitrophenol	80.0	65.7		ug/L		82	62 - 124
3,3'-Dichlorobenzidine	80.0	63.0		ug/L		79	55 - 145
3-Nitroaniline	80.0	62.8		ug/L		79	51 - 120
4,6-Dinitro-2-methylphenol	160	144		ug/L		90	65 - 145
4-Bromophenyl phenyl ether	80.0	68.8		ug/L		86	59 - 132

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

Lab Sample ID: LCS 460-1018383/2-A
Matrix: Water
Analysis Batch: 1018391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloro-3-methylphenol	80.0	68.3		ug/L		85	54 - 120
4-Chloroaniline	80.0	62.4		ug/L		78	43 - 120
4-Chlorophenyl phenyl ether	80.0	75.1		ug/L		94	65 - 127
4-Methylphenol	80.0	49.0		ug/L		61	28 - 120
4-Nitroaniline	80.0	77.3		ug/L		97	57 - 135
4-Nitrophenol	160	77.0		ug/L		48	10 - 120
Acenaphthene	80.0	70.5		ug/L		88	62 - 127
Acenaphthylene	80.0	74.8		ug/L		94	58 - 122
Acetophenone	80.0	73.4		ug/L		92	65 - 125
Anthracene	80.0	72.1		ug/L		90	67 - 127
Atrazine	40.0	50.8		ug/L		127	13 - 150
Benzaldehyde	40.0	43.4		ug/L		109	10 - 150
Benzo[a]anthracene	80.0	71.0		ug/L		89	71 - 131
Benzo[a]pyrene	80.0	82.6		ug/L		103	75 - 148
Benzo[b]fluoranthene	80.0	75.7		ug/L		95	70 - 140
Benzo[g,h,i]perylene	80.0	69.2		ug/L		87	52 - 143
Benzo[k]fluoranthene	80.0	78.7		ug/L		98	71 - 140
Bis(2-chloroethoxy)methane	80.0	71.4		ug/L		89	63 - 122
Bis(2-chloroethyl)ether	80.0	68.8		ug/L		86	61 - 125
Bis(2-ethylhexyl) phthalate	80.0	79.8		ug/L		100	65 - 144
Butyl benzyl phthalate	80.0	74.2		ug/L		93	67 - 141
Caprolactam	40.0	10.5		ug/L		26	10 - 120
Carbazole	80.0	74.2		ug/L		93	68 - 132
Chrysene	80.0	70.3		ug/L		88	70 - 132
Dibenz(a,h)anthracene	80.0	68.0		ug/L		85	53 - 150
Dibenzofuran	80.0	72.1		ug/L		90	64 - 125
Diethyl phthalate	80.0	77.3		ug/L		97	67 - 131
Dimethyl phthalate	80.0	76.2		ug/L		95	67 - 129
Di-n-butyl phthalate	80.0	75.6		ug/L		94	71 - 139
Di-n-octyl phthalate	80.0	83.3		ug/L		104	51 - 150
Fluoranthene	80.0	78.0		ug/L		97	69 - 137
Fluorene	80.0	76.9		ug/L		96	67 - 125
Hexachlorobenzene	80.0	71.0		ug/L		89	62 - 135
Hexachlorobutadiene	80.0	66.0		ug/L		82	10 - 147
Hexachlorocyclopentadiene	80.0	87.1		ug/L		109	10 - 135
Hexachloroethane	80.0	62.8		ug/L		78	10 - 138
Indeno[1,2,3-cd]pyrene	80.0	68.9		ug/L		86	59 - 150
Isophorone	80.0	75.1		ug/L		94	65 - 128
Naphthalene	80.0	67.4		ug/L		84	39 - 126
Nitrobenzene	80.0	74.9		ug/L		94	66 - 127
N-Nitrosodi-n-propylamine	80.0	76.7		ug/L		96	63 - 133
N-Nitrosodiphenylamine	80.0	68.1		ug/L		85	66 - 128
Pentachlorophenol	160	147		ug/L		92	60 - 140
Phenanthrene	80.0	69.9		ug/L		87	68 - 126
Phenol	80.0	27.0		ug/L		34	10 - 80
Pyrene	80.0	69.0		ug/L		86	60 - 137

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

Lab Sample ID: LCS 460-1018383/2-A
Matrix: Water
Analysis Batch: 1018391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018383

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*37 - 150*
2-Fluorobiphenyl	*80*		*46 - 139*
2-Fluorophenol (Surr)	*44*		*16 - 80*
Nitrobenzene-d5 (Surr)	*84*		*51 - 145*
Phenol-d5 (Surr)	*31*		*10 - 56*
Terphenyl-d14 (Surr)	*65*		*13 - 159*

Lab Sample ID: LCSD 460-1018383/3-A
Matrix: Water
Analysis Batch: 1018391

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018383

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			80.0	84.7		ug/L		106	52 - 129	20	30
1,2,4,5-Tetrachlorobenzene			80.0	80.9		ug/L		101	40 - 136	19	30
2,2'-oxybis[1-chloropropane]			80.0	83.1		ug/L		104	47 - 133	20	30
2,3,4,6-Tetrachlorophenol			80.0	91.7		ug/L		115	63 - 131	20	30
2,4,5-Trichlorophenol			80.0	86.6		ug/L		108	63 - 124	22	30
2,4,6-Trichlorophenol			80.0	86.4		ug/L		108	66 - 131	20	30
2,4-Dichlorophenol			80.0	81.8		ug/L		102	60 - 120	20	30
2,4-Dimethylphenol			80.0	93.1		ug/L		116	37 - 120	21	30
2,4-Dinitrophenol			160	178		ug/L		112	50 - 148	21	30
2,4-Dinitrotoluene			80.0	102		ug/L		127	71 - 142	20	30
2,6-Dinitrotoluene			80.0	96.0		ug/L		120	71 - 136	20	30
2-Chloronaphthalene			80.0	82.3		ug/L		103	50 - 129	20	30
2-Chlorophenol			80.0	70.8		ug/L		88	49 - 120	19	30
2-Methylnaphthalene			80.0	78.4		ug/L		98	42 - 134	21	30
2-Methylphenol			80.0	65.0		ug/L		81	35 - 120	20	30
2-Nitroaniline			80.0	89.5		ug/L		112	57 - 134	21	30
2-Nitrophenol			80.0	81.6		ug/L		102	62 - 124	22	30
3,3'-Dichlorobenzidine			80.0	74.7		ug/L		93	55 - 145	17	30
3-Nitroaniline			80.0	75.9		ug/L		95	51 - 120	19	30
4,6-Dinitro-2-methylphenol			160	179		ug/L		112	65 - 145	21	30
4-Bromophenyl phenyl ether			80.0	83.8		ug/L		105	59 - 132	20	30
4-Chloro-3-methylphenol			80.0	85.5		ug/L		107	54 - 120	22	30
4-Chloroaniline			80.0	75.8		ug/L		95	43 - 120	19	30
4-Chlorophenyl phenyl ether			80.0	91.6		ug/L		115	65 - 127	20	30
4-Methylphenol			80.0	58.5		ug/L		73	28 - 120	18	30
4-Nitroaniline			80.0	93.4		ug/L		117	57 - 135	19	30
4-Nitrophenol			160	96.4		ug/L		60	10 - 120	22	30
Acenaphthene			80.0	85.8		ug/L		107	62 - 127	20	30
Acenaphthylene			80.0	90.7		ug/L		113	58 - 122	19	30
Acetophenone			80.0	88.4		ug/L		111	65 - 125	19	30
Anthracene			80.0	86.7		ug/L		108	67 - 127	18	30
Atrazine			40.0	63.0	*	ug/L		158	13 - 150	22	30
Benzaldehyde			40.0	51.9		ug/L		130	10 - 150	18	30
Benzo[a]anthracene			80.0	85.5		ug/L		107	71 - 131	19	30
Benzo[a]pyrene			80.0	100		ug/L		125	75 - 148	19	30
Benzo[b]fluoranthene			80.0	92.9		ug/L		116	70 - 140	20	30

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

Lab Sample ID: LCSD 460-1018383/3-A
Matrix: Water
Analysis Batch: 1018391

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018383

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[g,h,i]perylene			80.0	85.1		ug/L		106	52 - 143	21	30
Benzo[k]fluoranthene			80.0	97.2		ug/L		122	71 - 140	21	30
Bis(2-chloroethoxy)methane			80.0	88.2		ug/L		110	63 - 122	21	30
Bis(2-chloroethyl)ether			80.0	83.7		ug/L		105	61 - 125	20	30
Bis(2-ethylhexyl) phthalate			80.0	97.5		ug/L		122	65 - 144	20	30
Butyl benzyl phthalate			80.0	90.6		ug/L		113	67 - 141	20	30
Caprolactam			40.0	13.2		ug/L		33	10 - 120	23	30
Carbazole			80.0	91.0		ug/L		114	68 - 132	20	30
Chrysene			80.0	83.2		ug/L		104	70 - 132	17	30
Dibenz(a,h)anthracene			80.0	85.7		ug/L		107	53 - 150	23	30
Dibenzofuran			80.0	87.3		ug/L		109	64 - 125	19	30
Diethyl phthalate			80.0	94.2		ug/L		118	67 - 131	20	30
Dimethyl phthalate			80.0	92.3		ug/L		115	67 - 129	19	30
Di-n-butyl phthalate			80.0	91.7		ug/L		115	71 - 139	19	30
Di-n-octyl phthalate			80.0	103		ug/L		129	51 - 150	21	30
Fluoranthene			80.0	95.6		ug/L		119	69 - 137	20	30
Fluorene			80.0	93.0		ug/L		116	67 - 125	19	30
Hexachlorobenzene			80.0	86.0		ug/L		107	62 - 135	19	30
Hexachlorobutadiene			80.0	82.9		ug/L		104	10 - 147	23	30
Hexachlorocyclopentadiene			80.0	107		ug/L		133	10 - 135	20	30
Hexachloroethane			80.0	77.7		ug/L		97	10 - 138	21	30
Indeno[1,2,3-cd]pyrene			80.0	85.6		ug/L		107	59 - 150	22	30
Isophorone			80.0	92.5		ug/L		116	65 - 128	21	30
Naphthalene			80.0	83.0		ug/L		104	39 - 126	21	30
Nitrobenzene			80.0	89.7		ug/L		112	66 - 127	18	30
N-Nitrosodi-n-propylamine			80.0	92.9		ug/L		116	63 - 133	19	30
N-Nitrosodiphenylamine			80.0	83.6		ug/L		105	66 - 128	21	30
Pentachlorophenol			160	180		ug/L		112	60 - 140	20	30
Phenanthrene			80.0	85.3		ug/L		107	68 - 126	20	30
Phenol			80.0	33.0		ug/L		41	10 - 80	20	30
Pyrene			80.0	83.7		ug/L		105	60 - 137	19	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*114*		*37 - 150*
2-Fluorobiphenyl	*98*		*46 - 139*
2-Fluorophenol (Surr)	*54*		*16 - 80*
Nitrobenzene-d5 (Surr)	*102*		*51 - 145*
Phenol-d5 (Surr)	*37*		*10 - 56*
Terphenyl-d14 (Surr)	*78*		*13 - 159*

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 460-1017773/1-A
Matrix: Water
Analysis Batch: 1017842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.072	ug/L		01/23/25 10:06	01/23/25 23:25	1

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	41		10 - 150	01/23/25 10:06	01/23/25 23:25	1

Lab Sample ID: LCS 460-1017773/2-A
Matrix: Water
Analysis Batch: 1017842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017773

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			1.60	1.31		ug/L		82	42 - 142		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8	37		10 - 150

Lab Sample ID: LCSD 460-1017773/3-A
Matrix: Water
Analysis Batch: 1017842

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017773

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			1.60	1.37		ug/L		85	42 - 142	4	20

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	43		10 - 150

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1017842

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	0.30		1.60	1.65		ug/L		84	42 - 142		

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
1,4-Dioxane-d8	35		10 - 150

Lab Sample ID: 460-319158-2 MSD
Matrix: Water
Analysis Batch: 1017842

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	0.30		1.60	1.78		ug/L		92	42 - 142	8	20

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
1,4-Dioxane-d8	40		10 - 150

Lab Sample ID: MB 460-1018363/1-A
Matrix: Water
Analysis Batch: 1018435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018363

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.072	ug/L		01/28/25 08:17	01/28/25 23:21	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	38		10 - 150	01/28/25 08:17	01/28/25 23:21	1

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: LCS 460-1018363/2-A
Matrix: Water
Analysis Batch: 1018435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018363

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			1.60	1.20		ug/L		75	42 - 142		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*36*		*10 - 150*

Lab Sample ID: LCSD 460-1018363/3-A
Matrix: Water
Analysis Batch: 1018435

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018363

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			1.60	1.47		ug/L		92	42 - 142	20	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*27*		*10 - 150*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 460-1018883/1-A
Matrix: Water
Analysis Batch: 1018959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	100	U	100	28	ug/L		01/30/25 20:25	01/31/25 09:36	1
ORO (C28-C44)	100	U	100	31	ug/L		01/30/25 20:25	01/31/25 09:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*15 - 150*	*01/30/25 20:25*	*01/31/25 09:36*	*1*

Lab Sample ID: LCS 460-1018883/2-A
Matrix: Water
Analysis Batch: 1018959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018883

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			900	543		ug/L		60	27 - 150		
ORO (C28-C44)			500	191		ug/L		38	18 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*69*		*15 - 150*

Lab Sample ID: LCSD 460-1018883/3-A
Matrix: Water
Analysis Batch: 1018959

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018883

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			900	642		ug/L		71	27 - 150	17	30
ORO (C28-C44)			500	185		ug/L		37	18 - 120	3	30

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	87		15 - 150

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-1017868/1-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/23/25 20:22	01/24/25 06:12	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/23/25 20:22	01/24/25 06:12	1
beta-BHC	0.020	U	0.020	0.015	ug/L		01/23/25 20:22	01/24/25 06:12	1
beta-BHC	0.020	U	0.020	0.015	ug/L		01/23/25 20:22	01/24/25 06:12	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/23/25 20:22	01/24/25 06:12	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/23/25 20:22	01/24/25 06:12	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/23/25 20:22	01/24/25 06:12	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/23/25 20:22	01/24/25 06:12	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/23/25 20:22	01/24/25 06:12	1

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

Lab Sample ID: MB 460-1017868/1-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017868

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58		30 - 131	01/23/25 20:22	01/24/25 06:12	1
DCB Decachlorobiphenyl	55		30 - 131	01/23/25 20:22	01/24/25 06:12	1
Tetrachloro-m-xylene	76		34 - 120	01/23/25 20:22	01/24/25 06:12	1
Tetrachloro-m-xylene	75		34 - 120	01/23/25 20:22	01/24/25 06:12	1

Lab Sample ID: LCS 460-1017868/2-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.800	0.635		ug/L		79	69 - 138
4,4'-DDD	0.800	0.649		ug/L		81	69 - 138
4,4'-DDE	0.800	0.705		ug/L		88	68 - 130
4,4'-DDE	0.800	0.667		ug/L		83	68 - 130
4,4'-DDT	0.800	0.785		ug/L		98	57 - 1505
4,4'-DDT	0.800	0.676		ug/L		85	57 - 1505
Aldrin	0.800	0.688		ug/L		86	67 - 129
Aldrin	0.800	0.645		ug/L		81	67 - 129
alpha-BHC	0.800	0.643		ug/L		80	70 - 125
alpha-BHC	0.800	0.632		ug/L		79	70 - 125
beta-BHC	0.800	0.648		ug/L		81	70 - 129
beta-BHC	0.800	0.617		ug/L		77	70 - 129
delta-BHC	0.800	0.451		ug/L		56	44 - 120
delta-BHC	0.800	0.448		ug/L		56	44 - 120
Dieldrin	0.800	0.708		ug/L		88	72 - 128
Dieldrin	0.800	0.657		ug/L		82	72 - 128
Endosulfan I	0.800	0.701		ug/L		88	73 - 127
Endosulfan I	0.800	0.663		ug/L		83	73 - 127
Endosulfan II	0.800	0.686		ug/L		86	73 - 134
Endosulfan II	0.800	0.686		ug/L		86	73 - 134
Endosulfan sulfate	0.800	0.603		ug/L		75	61 - 128
Endosulfan sulfate	0.800	0.558		ug/L		70	61 - 128
Endrin	0.800	0.719		ug/L		90	64 - 138
Endrin	0.800	0.654		ug/L		82	64 - 138
Endrin aldehyde	0.800	0.658		ug/L		82	74 - 133
Endrin aldehyde	0.800	0.634		ug/L		79	74 - 133
Endrin ketone	0.800	0.677		ug/L		85	56 - 150
Endrin ketone	0.800	0.636		ug/L		79	56 - 150
gamma-BHC (Lindane)	0.800	0.676		ug/L		85	73 - 132
gamma-BHC (Lindane)	0.800	0.649		ug/L		81	73 - 132
Heptachlor	0.800	0.702		ug/L		88	70 - 134
Heptachlor	0.800	0.660		ug/L		82	70 - 134
Heptachlor epoxide	0.800	0.696		ug/L		87	75 - 126
Heptachlor epoxide	0.800	0.641		ug/L		80	75 - 126
Methoxychlor	0.800	0.870		ug/L		109	49 - 150
Methoxychlor	0.800	0.697		ug/L		87	49 - 150

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

Lab Sample ID: LCS 460-1017868/2-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017868

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*53*		*30 - 131*
DCB Decachlorobiphenyl	*55*		*30 - 131*
Tetrachloro-m-xylene	*72*		*34 - 120*
Tetrachloro-m-xylene	*82*		*34 - 120*

Lab Sample ID: LCSD 460-1017868/3-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.800	0.616		ug/L		77	69 - 138	3	30
4,4'-DDD			0.800	0.668		ug/L		83	69 - 138	3	30
4,4'-DDE			0.800	0.708		ug/L		89	68 - 130	0	30
4,4'-DDE			0.800	0.695		ug/L		87	68 - 130	4	30
4,4'-DDT			0.800	0.684		ug/L		86	57 - 1505	14	30
4,4'-DDT			0.800	0.664		ug/L		83	57 - 1505	2	30
Aldrin			0.800	0.692		ug/L		86	67 - 129	1	30
Aldrin			0.800	0.664		ug/L		83	67 - 129	3	30
alpha-BHC			0.800	0.670		ug/L		84	70 - 125	4	30
alpha-BHC			0.800	0.644		ug/L		80	70 - 125	2	30
beta-BHC			0.800	0.672		ug/L		84	70 - 129	4	30
beta-BHC			0.800	0.635		ug/L		79	70 - 129	3	30
delta-BHC			0.800	0.458		ug/L		57	44 - 120	2	30
delta-BHC			0.800	0.461		ug/L		58	44 - 120	3	30
Dieldrin			0.800	0.707		ug/L		88	72 - 128	0	30
Dieldrin			0.800	0.681		ug/L		85	72 - 128	4	30
Endosulfan I			0.800	0.704		ug/L		88	73 - 127	0	30
Endosulfan I			0.800	0.705		ug/L		88	73 - 127	6	30
Endosulfan II			0.800	0.698		ug/L		87	73 - 134	2	30
Endosulfan II			0.800	0.716		ug/L		89	73 - 134	4	30
Endosulfan sulfate			0.800	0.597		ug/L		75	61 - 128	1	30
Endosulfan sulfate			0.800	0.574		ug/L		72	61 - 128	3	30
Endrin			0.800	0.674		ug/L		84	64 - 138	6	30
Endrin			0.800	0.656		ug/L		82	64 - 138	0	30
Endrin aldehyde			0.800	0.668		ug/L		83	74 - 133	2	30
Endrin aldehyde			0.800	0.661		ug/L		83	74 - 133	4	30
Endrin ketone			0.800	0.688		ug/L		86	56 - 150	2	30
Endrin ketone			0.800	0.661		ug/L		83	56 - 150	4	30
gamma-BHC (Lindane)			0.800	0.695		ug/L		87	73 - 132	3	30
gamma-BHC (Lindane)			0.800	0.661		ug/L		83	73 - 132	2	30
Heptachlor			0.800	0.693		ug/L		87	70 - 134	1	30
Heptachlor			0.800	0.664		ug/L		83	70 - 134	1	30
Heptachlor epoxide			0.800	0.700		ug/L		87	75 - 126	0	30
Heptachlor epoxide			0.800	0.665		ug/L		83	75 - 126	4	30
Methoxychlor			0.800	0.697		ug/L		87	49 - 150	22	30
Methoxychlor			0.800	0.664		ug/L		83	49 - 150	5	30

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

Lab Sample ID: LCSD 460-1017868/3-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017868

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*30 - 131*
DCB Decachlorobiphenyl	*55*		*30 - 131*
Tetrachloro-m-xylene	*74*		*34 - 120*
Tetrachloro-m-xylene	*82*		*34 - 120*

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.020	U	0.800	0.805		ug/L		101	69 - 138
4,4'-DDD	0.020	U	0.800	0.835		ug/L		104	69 - 138
4,4'-DDE	0.020	U	0.800	0.871		ug/L		109	68 - 130
4,4'-DDE	0.020	U	0.800	0.838		ug/L		105	68 - 130
4,4'-DDT	0.020	U	0.800	0.926		ug/L		116	57 - 150
4,4'-DDT	0.020	U	0.800	0.848		ug/L		106	57 - 150
Aldrin	0.020	U	0.800	0.803		ug/L		100	67 - 129
Aldrin	0.020	U	0.800	0.775		ug/L		97	67 - 129
alpha-BHC	0.020	U	0.800	0.815		ug/L		102	70 - 125
alpha-BHC	0.020	U	0.800	0.782		ug/L		98	70 - 125
beta-BHC	0.020	U	0.800	0.777		ug/L		97	70 - 129
beta-BHC	0.020	U	0.800	0.709		ug/L		89	70 - 129
delta-BHC	0.020	U	0.800	0.729		ug/L		91	44 - 120
delta-BHC	0.020	U	0.800	0.702		ug/L		88	44 - 120
Dieldrin	0.020	U	0.800	0.877		ug/L		110	72 - 128
Dieldrin	0.020	U	0.800	0.826		ug/L		103	72 - 128
Endosulfan I	0.020	U	0.800	0.864		ug/L		108	73 - 127
Endosulfan I	0.020	U	0.800	0.843		ug/L		105	73 - 127
Endosulfan II	0.020	U	0.800	0.845		ug/L		106	73 - 134
Endosulfan II	0.020	U	0.800	0.863		ug/L		108	73 - 134
Endosulfan sulfate	0.020	U	0.800	0.767		ug/L		96	61 - 128
Endosulfan sulfate	0.020	U	0.800	0.716		ug/L		90	61 - 128
Endrin	0.020	U	0.800	0.866		ug/L		108	64 - 138
Endrin	0.020	U	0.800	0.815		ug/L		102	64 - 138
Endrin aldehyde	0.020	U	0.800	0.595		ug/L		74	74 - 133
Endrin aldehyde	0.020	U	0.800	0.622		ug/L		78	74 - 133
Endrin ketone	0.020	U	0.800	0.831		ug/L		104	56 - 150
Endrin ketone	0.020	U	0.800	0.793		ug/L		99	56 - 150
gamma-BHC (Lindane)	0.020	U	0.800	0.851		ug/L		106	73 - 132
gamma-BHC (Lindane)	0.020	U	0.800	0.793		ug/L		99	73 - 132
Heptachlor	0.020	U	0.800	0.781		ug/L		98	70 - 134
Heptachlor	0.020	U	0.800	0.787		ug/L		98	70 - 134
Heptachlor epoxide	0.020	U	0.800	0.858		ug/L		107	75 - 126
Heptachlor epoxide	0.020	U	0.800	0.798		ug/L		100	75 - 126
Methoxychlor	0.020	U	0.800	0.983		ug/L		123	49 - 150
Methoxychlor	0.020	U	0.800	0.865		ug/L		108	49 - 150

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

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017868

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	71		30 - 131
DCB Decachlorobiphenyl	69		30 - 131
Tetrachloro-m-xylene	74		34 - 120
Tetrachloro-m-xylene	79		34 - 120

Lab Sample ID: 460-319158-2 MSD
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.020	U	0.800	0.829		ug/L		104	69 - 138	3	30
4,4'-DDD	0.020	U	0.800	0.852		ug/L		106	69 - 138	2	30
4,4'-DDE	0.020	U	0.800	0.907		ug/L		113	68 - 130	4	30
4,4'-DDE	0.020	U	0.800	0.850		ug/L		106	68 - 130	1	30
4,4'-DDT	0.020	U	0.800	0.967		ug/L		121	57 - 150	4	30
4,4'-DDT	0.020	U	0.800	0.862		ug/L		108	57 - 150	2	30
Aldrin	0.020	U	0.800	0.828		ug/L		104	67 - 129	3	30
Aldrin	0.020	U	0.800	0.778		ug/L		97	67 - 129	0	30
alpha-BHC	0.020	U	0.800	0.829		ug/L		104	70 - 125	2	30
alpha-BHC	0.020	U	0.800	0.778		ug/L		97	70 - 125	1	30
beta-BHC	0.020	U	0.800	0.773		ug/L		97	70 - 129	1	30
beta-BHC	0.020	U	0.800	0.708		ug/L		89	70 - 129	0	30
delta-BHC	0.020	U	0.800	0.754		ug/L		94	44 - 120	4	30
delta-BHC	0.020	U	0.800	0.718		ug/L		90	44 - 120	2	30
Dieldrin	0.020	U	0.800	0.911		ug/L		114	72 - 128	4	30
Dieldrin	0.020	U	0.800	0.842		ug/L		105	72 - 128	2	30
Endosulfan I	0.020	U	0.800	0.884		ug/L		110	73 - 127	2	30
Endosulfan I	0.020	U	0.800	0.856		ug/L		107	73 - 127	2	30
Endosulfan II	0.020	U	0.800	0.867		ug/L		108	73 - 134	3	30
Endosulfan II	0.020	U	0.800	0.874		ug/L		109	73 - 134	1	30
Endosulfan sulfate	0.020	U	0.800	0.809		ug/L		101	61 - 128	5	30
Endosulfan sulfate	0.020	U	0.800	0.738		ug/L		92	61 - 128	3	30
Endrin	0.020	U	0.800	0.914		ug/L		114	64 - 138	5	30
Endrin	0.020	U	0.800	0.828		ug/L		104	64 - 138	2	30
Endrin aldehyde	0.020	U	0.800	0.613		ug/L		77	74 - 133	3	30
Endrin aldehyde	0.020	U	0.800	0.622		ug/L		78	74 - 133	0	30
Endrin ketone	0.020	U	0.800	0.849		ug/L		106	56 - 150	2	30
Endrin ketone	0.020	U	0.800	0.813		ug/L		102	56 - 150	2	30
gamma-BHC (Lindane)	0.020	U	0.800	0.859		ug/L		107	73 - 132	1	30
gamma-BHC (Lindane)	0.020	U	0.800	0.793		ug/L		99	73 - 132	0	30
Heptachlor	0.020	U	0.800	0.785		ug/L		98	70 - 134	1	30
Heptachlor	0.020	U	0.800	0.789		ug/L		99	70 - 134	0	30
Heptachlor epoxide	0.020	U	0.800	0.888		ug/L		111	75 - 126	3	30
Heptachlor epoxide	0.020	U	0.800	0.808		ug/L		101	75 - 126	1	30
Methoxychlor	0.020	U	0.800	1.02		ug/L		127	49 - 150	3	30
Methoxychlor	0.020	U	0.800	0.884		ug/L		110	49 - 150	2	30

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

Lab Sample ID: 460-319158-2 MSD
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017868

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	72		30 - 131
DCB Decachlorobiphenyl	71		30 - 131
Tetrachloro-m-xylene	74		34 - 120
Tetrachloro-m-xylene	78		34 - 120

Lab Sample ID: MB 460-1018372/1-A
Matrix: Water
Analysis Batch: 1018406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/28/25 08:50	01/28/25 21:36	1
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/28/25 08:50	01/28/25 21:36	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/28/25 08:50	01/28/25 21:36	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/28/25 08:50	01/28/25 21:36	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/28/25 08:50	01/28/25 21:36	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/28/25 08:50	01/28/25 21:36	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/28/25 08:50	01/28/25 21:36	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/28/25 08:50	01/28/25 21:36	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/28/25 08:50	01/28/25 21:36	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/28/25 08:50	01/28/25 21:36	1
beta-BHC	0.020	U	0.020	0.015	ug/L		01/28/25 08:50	01/28/25 21:36	1
beta-BHC	0.020	U	0.020	0.015	ug/L		01/28/25 08:50	01/28/25 21:36	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/28/25 08:50	01/28/25 21:36	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/28/25 08:50	01/28/25 21:36	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/28/25 08:50	01/28/25 21:36	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/28/25 08:50	01/28/25 21:36	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/28/25 08:50	01/28/25 21:36	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/28/25 08:50	01/28/25 21:36	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/28/25 08:50	01/28/25 21:36	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/28/25 08:50	01/28/25 21:36	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/28/25 08:50	01/28/25 21:36	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/28/25 08:50	01/28/25 21:36	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/28/25 08:50	01/28/25 21:36	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/28/25 08:50	01/28/25 21:36	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/28/25 08:50	01/28/25 21:36	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/28/25 08:50	01/28/25 21:36	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/28/25 08:50	01/28/25 21:36	1

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

Lab Sample ID: MB 460-1018372/1-A
Matrix: Water
Analysis Batch: 1018406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	0.50	U	0.50	0.11	ug/L		01/28/25 08:50	01/28/25 21:36	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/28/25 08:50	01/28/25 21:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*108*		*30 - 131*	*01/28/25 08:50*	*01/28/25 21:36*	*1*
DCB Decachlorobiphenyl	*89*		*30 - 131*	*01/28/25 08:50*	*01/28/25 21:36*	*1*
Tetrachloro-m-xylene	*101*		*34 - 120*	*01/28/25 08:50*	*01/28/25 21:36*	*1*
Tetrachloro-m-xylene	*95*		*34 - 120*	*01/28/25 08:50*	*01/28/25 21:36*	*1*

Lab Sample ID: LCS 460-1018372/2-A
Matrix: Water
Analysis Batch: 1018406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.800	0.872		ug/L		109	69 - 138
4,4'-DDD	0.800	0.815		ug/L		102	69 - 138
4,4'-DDE	0.800	0.951		ug/L		119	68 - 130
4,4'-DDE	0.800	0.834		ug/L		104	68 - 130
4,4'-DDT	0.800	0.983		ug/L		123	57 - 1505
4,4'-DDT	0.800	0.794		ug/L		99	57 - 1505
Aldrin	0.800	0.902		ug/L		113	67 - 129
Aldrin	0.800	0.783		ug/L		98	67 - 129
alpha-BHC	0.800	0.913		ug/L		114	70 - 125
alpha-BHC	0.800	0.821		ug/L		103	70 - 125
beta-BHC	0.800	0.912		ug/L		114	70 - 129
beta-BHC	0.800	0.807		ug/L		101	70 - 129
delta-BHC	0.800	0.876		ug/L		109	44 - 120
delta-BHC	0.800	0.801		ug/L		100	44 - 120
Dieldrin	0.800	0.936		ug/L		117	72 - 128
Dieldrin	0.800	0.826		ug/L		103	72 - 128
Endosulfan I	0.800	0.941		ug/L		118	73 - 127
Endosulfan I	0.800	0.860		ug/L		107	73 - 127
Endosulfan II	0.800	0.975		ug/L		122	73 - 134
Endosulfan II	0.800	0.865		ug/L		108	73 - 134
Endosulfan sulfate	0.800	0.983		ug/L		123	61 - 128
Endosulfan sulfate	0.800	0.754		ug/L		94	61 - 128
Endrin	0.800	0.886		ug/L		111	64 - 138
Endrin	0.800	0.766		ug/L		96	64 - 138
Endrin aldehyde	0.800	0.945		ug/L		118	74 - 133
Endrin aldehyde	0.800	0.814		ug/L		102	74 - 133
Endrin ketone	0.800	1.01		ug/L		126	56 - 150
Endrin ketone	0.800	0.805		ug/L		101	56 - 150
gamma-BHC (Lindane)	0.800	0.910		ug/L		114	73 - 132
gamma-BHC (Lindane)	0.800	0.813		ug/L		102	73 - 132
Heptachlor	0.800	0.890		ug/L		111	70 - 134
Heptachlor	0.800	0.792		ug/L		99	70 - 134
Heptachlor epoxide	0.800	0.907		ug/L		113	75 - 126
Heptachlor epoxide	0.800	0.801		ug/L		100	75 - 126

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

Lab Sample ID: LCS 460-1018372/2-A
Matrix: Water
Analysis Batch: 1018406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018372

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methoxychlor			0.800	1.00		ug/L		125	49 - 150		
Methoxychlor			0.800	0.765		ug/L		96	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*103*		*30 - 131*
DCB Decachlorobiphenyl	*86*		*30 - 131*
Tetrachloro-m-xylene	*92*		*34 - 120*
Tetrachloro-m-xylene	*89*		*34 - 120*

Lab Sample ID: LCSD 460-1018372/3-A
Matrix: Water
Analysis Batch: 1018406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018372

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.800	0.895		ug/L		112	69 - 138	3	30
4,4'-DDD			0.800	0.836		ug/L		105	69 - 138	3	30
4,4'-DDE			0.800	0.984		ug/L		123	68 - 130	3	30
4,4'-DDE			0.800	0.864		ug/L		108	68 - 130	4	30
4,4'-DDT			0.800	1.01		ug/L		127	57 - 1505	3	30
4,4'-DDT			0.800	0.822		ug/L		103	57 - 1505	3	30
Aldrin			0.800	0.927		ug/L		116	67 - 129	3	30
Aldrin			0.800	0.812		ug/L		101	67 - 129	4	30
alpha-BHC			0.800	0.954		ug/L		119	70 - 125	4	30
alpha-BHC			0.800	0.855		ug/L		107	70 - 125	4	30
beta-BHC			0.800	0.939		ug/L		117	70 - 129	3	30
beta-BHC			0.800	0.830		ug/L		104	70 - 129	3	30
delta-BHC			0.800	0.903		ug/L		113	44 - 120	3	30
delta-BHC			0.800	0.829		ug/L		104	44 - 120	3	30
Dieldrin			0.800	0.968		ug/L		121	72 - 128	3	30
Dieldrin			0.800	0.855		ug/L		107	72 - 128	3	30
Endosulfan I			0.800	0.967		ug/L		121	73 - 127	3	30
Endosulfan I			0.800	0.890		ug/L		111	73 - 127	3	30
Endosulfan II			0.800	1.00		ug/L		125	73 - 134	3	30
Endosulfan II			0.800	0.891		ug/L		111	73 - 134	3	30
Endosulfan sulfate			0.800	1.01		ug/L		126	61 - 128	3	30
Endosulfan sulfate			0.800	0.781		ug/L		98	61 - 128	4	30
Endrin			0.800	0.915		ug/L		114	64 - 138	3	30
Endrin			0.800	0.793		ug/L		99	64 - 138	3	30
Endrin aldehyde			0.800	0.969		ug/L		121	74 - 133	3	30
Endrin aldehyde			0.800	0.840		ug/L		105	74 - 133	3	30
Endrin ketone			0.800	1.03		ug/L		129	56 - 150	2	30
Endrin ketone			0.800	0.833		ug/L		104	56 - 150	3	30
gamma-BHC (Lindane)			0.800	0.946		ug/L		118	73 - 132	4	30
gamma-BHC (Lindane)			0.800	0.843		ug/L		105	73 - 132	4	30
Heptachlor			0.800	0.921		ug/L		115	70 - 134	3	30
Heptachlor			0.800	0.822		ug/L		103	70 - 134	4	30
Heptachlor epoxide			0.800	0.932		ug/L		116	75 - 126	3	30
Heptachlor epoxide			0.800	0.829		ug/L		104	75 - 126	3	30

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

Lab Sample ID: LCSD 460-1018372/3-A
Matrix: Water
Analysis Batch: 1018406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018372

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methoxychlor			0.800	1.02		ug/L		128	49 - 150	2	30
Methoxychlor			0.800	0.792		ug/L		99	49 - 150	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*30 - 131*
DCB Decachlorobiphenyl	*88*		*30 - 131*
Tetrachloro-m-xylene	*94*		*34 - 120*
Tetrachloro-m-xylene	*90*		*34 - 120*

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

Lab Sample ID: MB 460-1017866/1-A
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*18 - 145*	*01/23/25 20:09*	*01/24/25 06:26*	*1*
DCB Decachlorobiphenyl	*64*		*18 - 145*	*01/23/25 20:09*	*01/24/25 06:26*	*1*
Tetrachloro-m-xylene	*81*		*21 - 124*	*01/23/25 20:09*	*01/24/25 06:26*	*1*
Tetrachloro-m-xylene	*78*		*21 - 124*	*01/23/25 20:09*	*01/24/25 06:26*	*1*

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

Lab Sample ID: LCS 460-1017866/2-A
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017866

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			4.00	3.18		ug/L		80	42 - 120		
Aroclor 1016			4.00	3.46		ug/L		86	42 - 120		
Aroclor 1260			4.00	3.17		ug/L		79	42 - 126		
Aroclor 1260			4.00	3.83		ug/L		96	42 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*18 - 145*
DCB Decachlorobiphenyl	*72*		*18 - 145*
Tetrachloro-m-xylene	*78*		*21 - 124*
Tetrachloro-m-xylene	*87*		*21 - 124*

Lab Sample ID: LCSD 460-1017866/3-A
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017866

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			4.00	3.36		ug/L		84	42 - 120	5	30
Aroclor 1016			4.00	3.12		ug/L		78	42 - 120	10	30
Aroclor 1260			4.00	3.34		ug/L		83	42 - 126	5	30
Aroclor 1260			4.00	3.65		ug/L		91	42 - 126	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*18 - 145*
DCB Decachlorobiphenyl	*66*		*18 - 145*
Tetrachloro-m-xylene	*81*		*21 - 124*
Tetrachloro-m-xylene	*80*		*21 - 124*

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016	0.40	U	4.00	3.54		ug/L		88	42 - 120		
Aroclor 1016	0.40	U	4.00	3.57		ug/L		89	42 - 120		
Aroclor 1260	0.40	U	4.00	3.60		ug/L		90	42 - 126		
Aroclor 1260	0.40	U	4.00	3.80		ug/L		95	42 - 126		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*78*		*18 - 145*
DCB Decachlorobiphenyl	*70*		*18 - 145*
Tetrachloro-m-xylene	*79*		*21 - 124*
Tetrachloro-m-xylene	*81*		*21 - 124*

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

Lab Sample ID: 460-319158-2 MSD
Client Sample ID: MW-01_20250122
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 1017892
Prep Batch: 1017866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.40	U	4.00	3.56		ug/L		89	42 - 120	1	30
Aroclor 1016	0.40	U	4.00	3.64		ug/L		91	42 - 120	2	30
Aroclor 1260	0.40	U	4.00	3.72		ug/L		93	42 - 126	3	30
Aroclor 1260	0.40	U	4.00	4.02		ug/L		101	42 - 126	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*72*		*18 - 145*
DCB Decachlorobiphenyl	*70*		*18 - 145*
Tetrachloro-m-xylene	*79*		*21 - 124*
Tetrachloro-m-xylene	*81*		*21 - 124*

Lab Sample ID: MB 460-1018366/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 1018427
Prep Batch: 1018366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 18:46	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/28/25 08:42	01/28/25 18:46	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/28/25 08:42	01/28/25 18:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*18 - 145*	*01/28/25 08:42*	*01/28/25 18:46*	*1*
DCB Decachlorobiphenyl	*83*		*18 - 145*	*01/28/25 08:42*	*01/28/25 18:46*	*1*
Tetrachloro-m-xylene	*92*		*21 - 124*	*01/28/25 08:42*	*01/28/25 18:46*	*1*
Tetrachloro-m-xylene	*90*		*21 - 124*	*01/28/25 08:42*	*01/28/25 18:46*	*1*

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

Lab Sample ID: LCS 460-1018366/2-A
Matrix: Water
Analysis Batch: 1018427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018366

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			4.00	4.05		ug/L		101	42 - 120		
Aroclor 1016			4.00	3.96		ug/L		99	42 - 120		
Aroclor 1260			4.00	4.03		ug/L		101	42 - 126		
Aroclor 1260			4.00	4.03		ug/L		101	42 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*78*		*18 - 145*
DCB Decachlorobiphenyl	*85*		*18 - 145*
Tetrachloro-m-xylene	*93*		*21 - 124*
Tetrachloro-m-xylene	*94*		*21 - 124*

Lab Sample ID: LCSD 460-1018366/3-A
Matrix: Water
Analysis Batch: 1018427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018366

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			4.00	4.18		ug/L		105	42 - 120	3	30
Aroclor 1016			4.00	4.18		ug/L		104	42 - 120	5	30
Aroclor 1260			4.00	4.23		ug/L		106	42 - 126	5	30
Aroclor 1260			4.00	4.21		ug/L		105	42 - 126	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*84*		*18 - 145*
DCB Decachlorobiphenyl	*91*		*18 - 145*
Tetrachloro-m-xylene	*100*		*21 - 124*
Tetrachloro-m-xylene	*102*		*21 - 124*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 460-1017861/1-A
Matrix: Water
Analysis Batch: 1017895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	1.2	U	1.2	0.12	ug/L		01/23/25 19:30	01/24/25 11:36	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		01/23/25 19:30	01/24/25 11:36	1
2,4-D	1.2	U	1.2	0.13	ug/L		01/23/25 19:30	01/24/25 11:36	1
2,4-D	1.2	U	1.2	0.13	ug/L		01/23/25 19:30	01/24/25 11:36	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		01/23/25 19:30	01/24/25 11:36	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		01/23/25 19:30	01/24/25 11:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*48*		*10 - 150*	*01/23/25 19:30*	*01/24/25 11:36*	*1*
2,4-Dichlorophenylacetic acid	*42*		*10 - 150*	*01/23/25 19:30*	*01/24/25 11:36*	*1*

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

Lab Sample ID: LCS 460-1017861/2-A
Matrix: Water
Analysis Batch: 1017895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017861

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T			2.00	1.16	J	ug/L		58	35 - 150		
2,4,5-T			2.00	1.40		ug/L		70	35 - 150		
2,4-D			8.00	3.50		ug/L		44	25 - 150		
2,4-D			8.00	3.48		ug/L		44	25 - 150		
Silvex (2,4,5-TP)			2.00	1.52		ug/L		76	39 - 150		
Silvex (2,4,5-TP)			2.00	1.55		ug/L		78	39 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*51*		*10 - 150*
2,4-Dichlorophenylacetic acid	*41*		*10 - 150*

Lab Sample ID: LCSD 460-1017861/3-A
Matrix: Water
Analysis Batch: 1017895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017861

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T			2.00	1.41		ug/L		70	35 - 150	20	30
2,4,5-T			2.00	1.81		ug/L		90	35 - 150	25	30
2,4-D			8.00	4.33		ug/L		54	25 - 150	21	30
2,4-D			8.00	4.33		ug/L		54	25 - 150	22	30
Silvex (2,4,5-TP)			2.00	1.75		ug/L		88	39 - 150	15	30
Silvex (2,4,5-TP)			2.00	1.77		ug/L		89	39 - 150	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*57*		*10 - 150*
2,4-Dichlorophenylacetic acid	*51*		*10 - 150*

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1017895

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017861

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T	1.2	U	2.00	1.44		ug/L		72	35 - 150		
2,4,5-T	1.2	U	2.00	0.751	J	ug/L		38	35 - 150		
2,4-D	1.2	U	8.00	2.16		ug/L		27	25 - 150		
2,4-D	1.2	U	8.00	2.29		ug/L		29	25 - 150		
Silvex (2,4,5-TP)	1.2	U	2.00	1.14	J	ug/L		57	39 - 150		
Silvex (2,4,5-TP)	1.2	U	2.00	1.18	J	ug/L		59	39 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*611*	*	*10 - 150*
2,4-Dichlorophenylacetic acid	*33*		*10 - 150*

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

Lab Sample ID: 460-319158-2 MSD — **Client Sample ID: MW-01_20250122**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 1017895 — **Prep Batch: 1017861**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	1.2	U	2.00	3.53	*	ug/L		177	35 - 150	84	30
2,4,5-T	1.2	U	2.00	2.61	*	ug/L		130	35 - 150	111	30
2,4-D	1.2	U	8.00	6.96	*	ug/L		87	25 - 150	105	30
2,4-D	1.2	U	8.00	8.70	*	ug/L		109	25 - 150	117	30
Silvex (2,4,5-TP)	1.2	U	2.00	2.54	*	ug/L		127	39 - 150	76	30
Silvex (2,4,5-TP)	1.2	U	2.00	2.88	*	ug/L		144	39 - 150	84	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*835*	*	*10 - 150*
2,4-Dichlorophenylacetic acid	*79*		*10 - 150*

Lab Sample ID: LB 460-1018130/1-E — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 1018301 — **Prep Batch: 1018283**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	33	U	33	3.3	ug/L		01/27/25 20:55	01/28/25 06:50	1
2,4-D	33	U	33	3.6	ug/L		01/27/25 20:55	01/28/25 06:50	1
Silvex (2,4,5-TP)	33	U	33	3.1	ug/L		01/27/25 20:55	01/28/25 06:50	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*119*		*10 - 150*	*01/27/25 20:55*	*01/28/25 06:50*	*1*
2,4-Dichlorophenylacetic acid	*102*		*10 - 150*	*01/27/25 20:55*	*01/28/25 06:50*	*1*

Lab Sample ID: MB 460-1018283/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 1018301 — **Prep Batch: 1018283**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	1.2	U	1.2	0.12	ug/L		01/27/25 20:33	01/28/25 06:31	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		01/27/25 20:33	01/28/25 06:31	1
2,4-D	1.2	U	1.2	0.13	ug/L		01/27/25 20:33	01/28/25 06:31	1
2,4-D	1.2	U	1.2	0.13	ug/L		01/27/25 20:33	01/28/25 06:31	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		01/27/25 20:33	01/28/25 06:31	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		01/27/25 20:33	01/28/25 06:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*55*		*10 - 150*	*01/27/25 20:33*	*01/28/25 06:31*	*1*
2,4-Dichlorophenylacetic acid	*45*		*10 - 150*	*01/27/25 20:33*	*01/28/25 06:31*	*1*

Lab Sample ID: LCS 460-1018283/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 1018301 — **Prep Batch: 1018283**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T			2.00	2.50		ug/L		125	35 - 150		
2,4,5-T			2.00	2.31		ug/L		116	35 - 150		
2,4-D			8.00	7.39		ug/L		92	25 - 150		

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

Lab Sample ID: LCS 460-1018283/2-A
Matrix: Water
Analysis Batch: 1018301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018283

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D			8.00	7.29		ug/L		91	25 - 150		
Silvex (2,4,5-TP)			2.00	2.85		ug/L		142	39 - 150		
Silvex (2,4,5-TP)			2.00	2.79		ug/L		139	39 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*84*		*10 - 150*
2,4-Dichlorophenylacetic acid	*68*		*10 - 150*

Lab Sample ID: LCSD 460-1018283/3-A
Matrix: Water
Analysis Batch: 1018301

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018283

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T			2.00	2.42		ug/L		121	35 - 150	3	30
2,4,5-T			2.00	2.20		ug/L		110	35 - 150	5	30
2,4-D			8.00	7.30		ug/L		91	25 - 150	1	30
2,4-D			8.00	7.29		ug/L		91	25 - 150	0	30
Silvex (2,4,5-TP)			2.00	2.75		ug/L		138	39 - 150	3	30
Silvex (2,4,5-TP)			2.00	2.66		ug/L		133	39 - 150	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*84*		*10 - 150*
2,4-Dichlorophenylacetic acid	*75*		*10 - 150*

Lab Sample ID: 460-319129-A-1-H MS
Matrix: Water
Analysis Batch: 1018301

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 1018283

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T	33	U	33.3	68.4	*	ug/L		205	35 - 150		
2,4,5-T	33	U	33.3	67.1	*	ug/L		201	35 - 150		
2,4-D	33	U	133	238	*	ug/L		179	25 - 150		
2,4-D	33	U	133	239	*	ug/L		179	25 - 150		
Silvex (2,4,5-TP)	33	U	33.3	65.7	*	ug/L		197	39 - 150		
Silvex (2,4,5-TP)	33	U	33.3	66.6	*	ug/L		200	39 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*126*		*10 - 150*
2,4-Dichlorophenylacetic acid	*100*		*10 - 150*

Method: MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 410-600140/1-B
Matrix: Water
Analysis Batch: 600461

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C19-C36 Aliphatics	50	U	50	50	ug/L		01/28/25 21:18	01/29/25 18:54	1

Method: MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: MB 410-600140/1-B
Matrix: Water
Analysis Batch: 600461

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C18 Aliphatics	30	U	30	30	ug/L		01/28/25 21:18	01/29/25 18:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*70*		*40 - 140*	*01/28/25 21:18*	*01/29/25 18:54*	*1*

Lab Sample ID: MB 410-600140/1-C
Matrix: Water
Analysis Batch: 600460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Pyrene	12	U	12	12	ug/L		01/28/25 21:18	01/29/25 18:54	1
Benzo[g,h,i]perylene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Benzo[b]fluoranthene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Fluoranthene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Benzo[k]fluoranthene	4.0	U	4.0	4.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Acenaphthylene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Chrysene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Benzo[a]pyrene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Dibenz(a,h)anthracene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Benzo[a]anthracene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Acenaphthene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Phenanthrene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Fluorene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
Naphthalene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
2-Methylnaphthalene	2.0	U	2.0	2.0	ug/L		01/28/25 21:18	01/29/25 18:54	1
C11-C22 Aromatics (unadjusted)	40	U	40	40	ug/L		01/28/25 21:18	01/29/25 18:54	1
C11-C22 Aromatics (Adjusted)	40	U	40	40	ug/L		01/28/25 21:18	01/29/25 18:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*94*		*40 - 140*	*01/28/25 21:18*	*01/29/25 18:54*	*1*
o- terphenyl (Surr)	*78*		*40 - 140*	*01/28/25 21:18*	*01/29/25 18:54*	*1*

Lab Sample ID: LCS 410-600140/2-B
Matrix: Water
Analysis Batch: 600461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600140

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C19-C36 Aliphatics			321	228		ug/L		71	40 - 140		
C9-C18 Aliphatics			241	162		ug/L		67	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*51*		*40 - 140*

Method: MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 410-600140/2-C
Matrix: Water
Analysis Batch: 600460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600140

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Anthracene			40.2	33.4		ug/L		83	40 - 140		
Pyrene			40.1	32.8		ug/L		82	40 - 140		
Benzo[g,h,i]perylene			40.2	31.8		ug/L		79	40 - 140		
Indeno[1,2,3-cd]pyrene			40.1	34.8		ug/L		87	40 - 140		
Benzo[b]fluoranthene			40.2	33.6		ug/L		84	40 - 140		
Fluoranthene			40.2	32.6		ug/L		81	40 - 140		
Benzo[k]fluoranthene			40.1	33.9		ug/L		85	40 - 140		
Acenaphthylene			40.1	27.4		ug/L		68	40 - 140		
Chrysene			40.2	35.9		ug/L		89	40 - 140		
Benzo[a]pyrene			40.1	29.5		ug/L		74	40 - 140		
Dibenz(a,h)anthracene			40.1	33.1		ug/L		82	40 - 140		
Benzo[a]anthracene			40.1	31.4		ug/L		78	40 - 140		
Acenaphthene			40.1	29.7		ug/L		74	40 - 140		
Phenanthrene			40.1	31.0		ug/L		77	40 - 140		
Fluorene			40.2	31.3		ug/L		78	40 - 140		
Naphthalene			40.2	27.6		ug/L		69	40 - 140		
2-Methylnaphthalene			40.1	26.1		ug/L		65	40 - 140		
C11-C22 Aromatics (unadjusted)			681	547		ug/L		80	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*89*		*40 - 140*
o- terphenyl (Surr)	*74*		*40 - 140*

Lab Sample ID: LCSD 410-600140/3-B
Matrix: Water
Analysis Batch: 600461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 600140

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C19-C36 Aliphatics			321	212		ug/L		66	40 - 140	7	25
C9-C18 Aliphatics			241	157		ug/L		65	40 - 140	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*54*		*40 - 140*

Lab Sample ID: LCSD 410-600140/3-C
Matrix: Water
Analysis Batch: 600460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 600140

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene			40.2	31.0		ug/L		77	40 - 140	7	25
Pyrene			40.1	30.3		ug/L		75	40 - 140	8	25
Benzo[g,h,i]perylene			40.2	28.1		ug/L		70	40 - 140	12	25
Indeno[1,2,3-cd]pyrene			40.1	31.3		ug/L		78	40 - 140	11	25
Benzo[b]fluoranthene			40.2	28.6		ug/L		71	40 - 140	16	25
Fluoranthene			40.2	30.1		ug/L		75	40 - 140	8	25
Benzo[k]fluoranthene			40.1	32.9		ug/L		82	40 - 140	3	25
Acenaphthylene			40.1	24.9		ug/L		62	40 - 140	10	25
Chrysene			40.2	32.2		ug/L		80	40 - 140	11	25

Method: MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 410-600140/3-C
Matrix: Water
Analysis Batch: 600460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 600140

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene			40.1	26.6		ug/L		66	40 - 140	10	25
Dibenz(a,h)anthracene			40.1	29.4		ug/L		73	40 - 140	12	25
Benzo[a]anthracene			40.1	28.6		ug/L		71	40 - 140	9	25
Acenaphthene			40.1	27.3		ug/L		68	40 - 140	8	25
Phenanthrene			40.1	28.8		ug/L		72	40 - 140	8	25
Fluorene			40.2	29.0		ug/L		72	40 - 140	8	25
Naphthalene			40.2	25.1		ug/L		63	40 - 140	9	25
2-Methylnaphthalene			40.1	23.9		ug/L		60	40 - 140	9	25
C11-C22 Aromatics (unadjusted)			681	498		ug/L		73	40 - 140	9	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*88*		*40 - 140*
o- terphenyl (Surr)	*69*		*40 - 140*

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 600460

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 600140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	2.3		38.6	28.8		ug/L		69	40 - 140
Pyrene	12	U	38.6	28.2		ug/L		73	40 - 140
Benzo[g,h,i]perylene	1.9	U	38.6	22.7		ug/L		59	40 - 140
Indeno[1,2,3-cd]pyrene	1.9	U	38.6	25.4		ug/L		66	40 - 140
Benzo[b]fluoranthene	1.9	U	38.6	24.3		ug/L		63	40 - 140
Fluoranthene	3.8		38.6	29.2		ug/L		66	40 - 140
Benzo[k]fluoranthene	3.8	U	38.6	27.2		ug/L		71	40 - 140
Acenaphthylene	1.9	U	38.6	23.3		ug/L		60	40 - 140
Chrysene	1.9	U	38.6	28.1		ug/L		73	40 - 140
Benzo[a]pyrene	1.9	U	38.6	22.9		ug/L		59	40 - 140
Dibenz(a,h)anthracene	1.9	U	38.6	24.9		ug/L		65	40 - 140
Benzo[a]anthracene	1.9	U	38.6	25.3		ug/L		66	40 - 140
Acenaphthene	3.7		38.6	28.8		ug/L		65	40 - 140
Phenanthrene	9.0		38.6	35.0		ug/L		67	40 - 140
Fluorene	5.0		38.6	31.3		ug/L		68	40 - 140
Naphthalene	8.3		38.6	35.7		ug/L		71	40 - 140
2-Methylnaphthalene	1.9	U	38.6	24.8		ug/L		64	40 - 140
C11-C22 Aromatics (unadjusted)	100		655	521		ug/L		64	40 - 140
C19-C36 Aliphatics	48	U	309	192		ug/L		62	40 - 140
C9-C18 Aliphatics	29	U	232	160		ug/L		69	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*49*		*40 - 140*
2-Fluorobiphenyl (Surr)	*89*		*40 - 140*
o- terphenyl (Surr)	*64*		*40 - 140*

Method: MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 460-319158-2 MSD
Client Sample ID: MW-01_20250122
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 600460
Prep Batch: 600140

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	2.3		38.8	25.6		ug/L		60	40 - 140	12	50
Pyrene	12	U	38.8	24.1		ug/L		62	40 - 140	16	50
Benzo[g,h,i]perylene	1.9	U	38.8	17.5		ug/L		45	40 - 140	26	50
Indeno[1,2,3-cd]pyrene	1.9	U	38.7	20.0		ug/L		52	40 - 140	24	50
Benzo[b]fluoranthene	1.9	U	38.8	16.8		ug/L		43	40 - 140	36	50
Fluoranthene	3.8		38.8	25.1		ug/L		55	40 - 140	15	50
Benzo[k]fluoranthene	3.8	U	38.7	25.9		ug/L		67	40 - 140	5	50
Acenaphthylene	1.9	U	38.8	19.8		ug/L		51	40 - 140	16	50
Chrysene	1.9	U	38.8	24.4		ug/L		63	40 - 140	14	50
Benzo[a]pyrene	1.9	U	38.8	18.8		ug/L		49	40 - 140	20	50
Dibenz(a,h)anthracene	1.9	U	38.7	20.1		ug/L		52	40 - 140	21	50
Benzo[a]anthracene	1.9	U	38.8	21.0		ug/L		54	40 - 140	19	50
Acenaphthene	3.7		38.7	24.4		ug/L		53	40 - 140	17	50
Phenanthrene	9.0		38.8	29.9		ug/L		54	40 - 140	16	50
Fluorene	5.0		38.8	26.9		ug/L		56	40 - 140	15	50
Naphthalene	8.3		38.8	28.6		ug/L		52	40 - 140	22	50
2-Methylnaphthalene	1.9	U	38.7	21.1		ug/L		54	40 - 140	16	50
C11-C22 Aromatics (unadjusted)	100		658	435		ug/L		51	40 - 140	18	50
C19-C36 Aliphatics	48	U	311	161		ug/L		52	40 - 140	17	50
C9-C18 Aliphatics	29	U	233	137		ug/L		59	40 - 140	15	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*40*		*40 - 140*
2-Fluorobiphenyl (Surr)	*88*		*40 - 140*
o- terphenyl (Surr)	*55*		*40 - 140*

Lab Sample ID: MB 410-600679/1-B
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 601844
Prep Batch: 600679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C19-C36 Aliphatics	50	U	50	50	ug/L		01/30/25 09:03	02/03/25 18:35	1
C9-C18 Aliphatics	30	U	30	30	ug/L		01/30/25 09:03	02/03/25 18:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*63*		*40 - 140*	*01/30/25 09:03*	*02/03/25 18:35*	*1*

Lab Sample ID: MB 410-600679/1-C
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 602286
Prep Batch: 600679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Pyrene	12	U	12	12	ug/L		01/30/25 09:03	02/04/25 18:37	1
Benzo[g,h,i]perylene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Benzo[b]fluoranthene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Fluoranthene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1

Method: MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: MB 410-600679/1-C
Matrix: Water
Analysis Batch: 602286

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	4.0	U	4.0	4.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Acenaphthylene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Chrysene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Benzo[a]pyrene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Dibenz(a,h)anthracene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Benzo[a]anthracene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Acenaphthene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Phenanthrene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Fluorene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
Naphthalene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
2-Methylnaphthalene	2.0	U	2.0	2.0	ug/L		01/30/25 09:03	02/04/25 18:37	1
C11-C22 Aromatics (unadjusted)	40	U	40	40	ug/L		01/30/25 09:03	02/04/25 18:37	1
C11-C22 Aromatics (Adjusted)	40	U	40	40	ug/L		01/30/25 09:03	02/04/25 18:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*114*		*40 - 140*	*01/30/25 09:03*	*02/04/25 18:37*	*1*
o- terphenyl (Surr)	*57*		*40 - 140*	*01/30/25 09:03*	*02/04/25 18:37*	*1*

Lab Sample ID: LCS 410-600679/2-B
Matrix: Water
Analysis Batch: 601844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600679

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C19-C36 Aliphatics	321	198		ug/L		62	40 - 140
C9-C18 Aliphatics	241	134		ug/L		56	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*56*		*40 - 140*

Lab Sample ID: LCS 410-600679/2-C
Matrix: Water
Analysis Batch: 602286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600679

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	40.2	33.4		ug/L		83	40 - 140
Pyrene	40.1	36.6		ug/L		91	40 - 140
Benzo[g,h,i]perylene	40.2	32.2		ug/L		80	40 - 140
Indeno[1,2,3-cd]pyrene	40.1	37.8		ug/L		94	40 - 140
Benzo[b]fluoranthene	40.2	32.9		ug/L		82	40 - 140
Fluoranthene	40.2	34.1		ug/L		85	40 - 140
Benzo[k]fluoranthene	40.1	29.9		ug/L		75	40 - 140
Acenaphthylene	40.1	27.9		ug/L		69	40 - 140
Chrysene	40.2	29.1		ug/L		72	40 - 140
Benzo[a]pyrene	40.1	29.2		ug/L		73	40 - 140
Dibenz(a,h)anthracene	40.1	32.4		ug/L		81	40 - 140
Benzo[a]anthracene	40.1	34.3		ug/L		86	40 - 140
Acenaphthene	40.1	30.2		ug/L		75	40 - 140
Phenanthrene	40.1	33.4		ug/L		83	40 - 140

Method: MA-EPH - Massachusetts - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 410-600679/2-C
Matrix: Water
Analysis Batch: 602286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600679

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluorene			40.2	32.4		ug/L		81	40 - 140		
Naphthalene			40.2	28.4		ug/L		71	40 - 140		
2-Methylnaphthalene			40.1	27.2		ug/L		68	40 - 140		
C11-C22 Aromatics (unadjusted)			681	568		ug/L		83	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*95*		*40 - 140*
o- terphenyl (Surr)	*75*		*40 - 140*

Lab Sample ID: LCSD 410-600679/3-B
Matrix: Water
Analysis Batch: 601844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 600679

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C19-C36 Aliphatics			321	201		ug/L		63	40 - 140	2	25
C9-C18 Aliphatics			241	131		ug/L		54	40 - 140	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*52*		*40 - 140*

Lab Sample ID: LCSD 410-600679/3-C
Matrix: Water
Analysis Batch: 602286

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 600679

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene			40.2	33.1		ug/L		82	40 - 140	1	25
Pyrene			40.1	37.3		ug/L		93	40 - 140	2	25
Benzo[g,h,i]perylene			40.2	31.2		ug/L		78	40 - 140	3	25
Indeno[1,2,3-cd]pyrene			40.1	37.2		ug/L		93	40 - 140	1	25
Benzo[b]fluoranthene			40.2	30.6		ug/L		76	40 - 140	7	25
Fluoranthene			40.2	33.6		ug/L		84	40 - 140	2	25
Benzo[k]fluoranthene			40.1	30.3		ug/L		76	40 - 140	1	25
Acenaphthylene			40.1	27.7		ug/L		69	40 - 140	1	25
Chrysene			40.2	29.3		ug/L		73	40 - 140	1	25
Benzo[a]pyrene			40.1	28.3		ug/L		71	40 - 140	3	25
Dibenz(a,h)anthracene			40.1	31.6		ug/L		79	40 - 140	2	25
Benzo[a]anthracene			40.1	33.1		ug/L		82	40 - 140	4	25
Acenaphthene			40.1	29.7		ug/L		74	40 - 140	2	25
Phenanthrene			40.1	33.0		ug/L		82	40 - 140	1	25
Fluorene			40.2	31.9		ug/L		80	40 - 140	1	25
Naphthalene			40.2	27.5		ug/L		69	40 - 140	3	25
2-Methylnaphthalene			40.1	26.3		ug/L		66	40 - 140	3	25
C11-C22 Aromatics (unadjusted)			681	572		ug/L		84	40 - 140	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*90*		*40 - 140*
o- terphenyl (Surr)	*74*		*40 - 140*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-1018232/1-A
Matrix: Water
Analysis Batch: 1018258

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 1018232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	11.7	ug/L		01/27/25 10:08	01/27/25 15:51	1
Antimony	2.0	U	2.0	0.48	ug/L		01/27/25 10:08	01/27/25 15:51	1
Arsenic	2.0	U	2.0	1.2	ug/L		01/27/25 10:08	01/27/25 15:51	1
Barium	4.0	U	4.0	0.93	ug/L		01/27/25 10:08	01/27/25 15:51	1
Beryllium	0.80	U	0.80	0.12	ug/L		01/27/25 10:08	01/27/25 15:51	1
Cadmium	2.0	U	2.0	0.38	ug/L		01/27/25 10:08	01/27/25 15:51	1
Calcium	500	U	500	31.7	ug/L		01/27/25 10:08	01/27/25 15:51	1
Chromium	4.0	U	4.0	1.7	ug/L		01/27/25 10:08	01/27/25 15:51	1
Cobalt	4.0	U	4.0	0.41	ug/L		01/27/25 10:08	01/27/25 15:51	1
Copper	4.0	U	4.0	2.0	ug/L		01/27/25 10:08	01/27/25 15:51	1
Iron	120	U	120	33.7	ug/L		01/27/25 10:08	01/27/25 15:51	1
Lead	1.2	U	1.2	0.42	ug/L		01/27/25 10:08	01/27/25 15:51	1
Magnesium	200	U	200	21.8	ug/L		01/27/25 10:08	01/27/25 15:51	1
Manganese	8.0	U	8.0	0.84	ug/L		01/27/25 10:08	01/27/25 15:51	1
Nickel	4.0	U	4.0	1.4	ug/L		01/27/25 10:08	01/27/25 15:51	1
Potassium	200	U	200	83.3	ug/L		01/27/25 10:08	01/27/25 15:51	1
Selenium	2.5	U	2.5	0.43	ug/L		01/27/25 10:08	01/27/25 15:51	1
Silver	2.0	U	2.0	1.3	ug/L		01/27/25 10:08	01/27/25 15:51	1
Sodium	500	U	500	180	ug/L		01/27/25 10:08	01/27/25 15:51	1
Thallium	0.80	U	0.80	0.19	ug/L		01/27/25 10:08	01/27/25 15:51	1
Vanadium	4.0	U	4.0	1.0	ug/L		01/27/25 10:08	01/27/25 15:51	1
Zinc	16.0	U	16.0	4.2	ug/L		01/27/25 10:08	01/27/25 15:51	1

Lab Sample ID: LCS 460-1018232/2-A
Matrix: Water
Analysis Batch: 1018258

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 1018232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2650		ug/L		106	80 - 120
Antimony	25.0	23.92		ug/L		96	80 - 120
Arsenic	50.0	49.93		ug/L		100	80 - 120
Barium	50.0	49.37		ug/L		99	80 - 120
Beryllium	25.0	26.03		ug/L		104	80 - 120
Cadmium	25.0	25.02		ug/L		100	80 - 120
Calcium	2500	2389		ug/L		96	80 - 120
Chromium	50.0	51.04		ug/L		102	80 - 120
Cobalt	25.0	26.02		ug/L		104	80 - 120
Copper	50.0	54.39		ug/L		109	80 - 120
Iron	2500	2447		ug/L		98	80 - 120
Lead	25.0	25.30		ug/L		101	80 - 120
Magnesium	2500	2675		ug/L		107	80 - 120
Manganese	250	258.5		ug/L		103	80 - 120
Nickel	50.0	52.43		ug/L		105	80 - 120
Potassium	2500	2493		ug/L		100	80 - 120
Selenium	50.0	48.46		ug/L		97	80 - 120
Silver	25.0	24.97		ug/L		100	80 - 120
Sodium	2500	2657		ug/L		106	80 - 120
Thallium	20.0	20.66		ug/L		103	80 - 120
Vanadium	50.0	50.25		ug/L		100	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-1018232/2-A
Matrix: Water
Analysis Batch: 1018258

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 1018232

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Zinc			250	253.0		ug/L		101	80 - 120		

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1018258

Client Sample ID: MW-01_20250122
Prep Type: Total Recoverable
Prep Batch: 1018232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum	316		2500	2845		ug/L		101	75 - 125		
Antimony	3.1		25.0	30.70		ug/L		110	75 - 125		
Arsenic	12.4		50.0	64.23		ug/L		104	75 - 125		
Barium	74.5		50.0	125.0		ug/L		101	75 - 125		
Beryllium	0.80	U	25.0	24.62		ug/L		98	75 - 125		
Cadmium	2.0	U	25.0	25.03		ug/L		100	75 - 125		
Calcium	203000		2500	217000	4	ug/L		552	75 - 125		
Chromium	4.0	U	50.0	49.40		ug/L		99	75 - 125		
Cobalt	1.4	J	25.0	25.90		ug/L		98	75 - 125		
Copper	4.3		50.0	50.28		ug/L		92	75 - 125		
Iron	829		2500	3260		ug/L		97	75 - 125		
Lead	8.2		25.0	31.92		ug/L		95	75 - 125		
Magnesium	41600		2500	43690	4	ug/L		84	75 - 125		
Manganese	106		250	339.5		ug/L		93	75 - 125		
Nickel	6.0		50.0	53.99		ug/L		96	75 - 125		
Potassium	59900		2500	65750	4	ug/L		235	75 - 125		
Selenium	2.5	U	50.0	27.45	N	ug/L		55	75 - 125		
Silver	2.0	U	25.0	24.39		ug/L		98	75 - 125		
Sodium	346000		2500	366500	4	ug/L		829	75 - 125		
Thallium	0.80	U	20.0	20.38		ug/L		102	75 - 125		
Vanadium	6.6		50.0	58.09		ug/L		103	75 - 125		
Zinc	16.0	U	250	248.1		ug/L		99	75 - 125		

Lab Sample ID: 460-319158-2 MSD
Matrix: Water
Analysis Batch: 1018258

Client Sample ID: MW-01_20250122
Prep Type: Total Recoverable
Prep Batch: 1018232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	316		2500	2913		ug/L		104	75 - 125	2	20
Antimony	3.1		25.0	32.03		ug/L		116	75 - 125	4	20
Arsenic	12.4		50.0	66.68		ug/L		109	75 - 125	4	20
Barium	74.5		50.0	127.9		ug/L		107	75 - 125	2	20
Beryllium	0.80	U	25.0	26.73		ug/L		107	75 - 125	8	20
Cadmium	2.0	U	25.0	25.48		ug/L		102	75 - 125	2	20
Calcium	203000		2500	215900	4	ug/L		508	75 - 125	1	20
Chromium	4.0	U	50.0	51.66		ug/L		103	75 - 125	4	20
Cobalt	1.4	J	25.0	26.81		ug/L		102	75 - 125	3	20
Copper	4.3		50.0	52.24		ug/L		96	75 - 125	4	20
Iron	829		2500	3283		ug/L		98	75 - 125	1	20
Lead	8.2		25.0	33.25		ug/L		100	75 - 125	4	20
Magnesium	41600		2500	44490	4	ug/L		116	75 - 125	2	20
Manganese	106		250	349.7		ug/L		98	75 - 125	3	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319158-2 MSD
Matrix: Water
Analysis Batch: 1018258

Client Sample ID: MW-01_20250122
Prep Type: Total Recoverable
Prep Batch: 1018232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	6.0		50.0	56.12		ug/L		100	75 - 125	4	20
Potassium	59900		2500	66860	4	ug/L		280	75 - 125	2	20
Selenium	2.5	U	50.0	28.26	N	ug/L		57	75 - 125	3	20
Silver	2.0	U	25.0	25.13		ug/L		101	75 - 125	3	20
Sodium	346000		2500	370100	4	ug/L		972	75 - 125	1	20
Thallium	0.80	U	20.0	21.01		ug/L		105	75 - 125	3	20
Vanadium	6.6		50.0	59.71		ug/L		106	75 - 125	3	20
Zinc	16.0	U	250	254.5		ug/L		102	75 - 125	3	20

Lab Sample ID: 460-319158-2 DU
Matrix: Water
Analysis Batch: 1018258

Client Sample ID: MW-01_20250122
Prep Type: Total Recoverable
Prep Batch: 1018232

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	316		289.3		ug/L		9	20
Antimony	3.1		3.12		ug/L		1	20
Arsenic	12.4		11.93		ug/L		4	20
Barium	74.5		75.18		ug/L		0.9	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	203000		205600		ug/L		1	20
Chromium	4.0	U	4.0	U	ug/L		NC	20
Cobalt	1.4	J	1.32	J	ug/L		6	20
Copper	4.3		4.14		ug/L		4	20
Iron	829		846.1		ug/L		2	20
Lead	8.2		8.23		ug/L		0.3	20
Magnesium	41600		41600		ug/L		0	20
Manganese	106		104.9		ug/L		0.8	20
Nickel	6.0		5.76		ug/L		5	20
Potassium	59900		60550		ug/L		1	20
Selenium	2.5	U	0.485	J	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Sodium	346000		346600		ug/L		0.2	20
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	6.6		6.46		ug/L		2	20
Zinc	16.0	U	16.0	U	ug/L		NC	20

Lab Sample ID: MB 460-1018770/1-A
Matrix: Water
Analysis Batch: 1018820

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 1018770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13.44	J	40.0	11.7	ug/L		01/30/25 10:24	01/30/25 19:02	1
Antimony	2.0	U	2.0	0.48	ug/L		01/30/25 10:24	01/30/25 19:02	1
Arsenic	2.0	U	2.0	1.2	ug/L		01/30/25 10:24	01/30/25 19:02	1
Barium	4.0	U	4.0	0.93	ug/L		01/30/25 10:24	01/30/25 19:02	1
Beryllium	0.80	U	0.80	0.12	ug/L		01/30/25 10:24	01/30/25 19:02	1
Cadmium	2.0	U	2.0	0.38	ug/L		01/30/25 10:24	01/30/25 19:02	1
Calcium	500	U	500	31.7	ug/L		01/30/25 10:24	01/30/25 19:02	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1018770/1-A
Matrix: Water
Analysis Batch: 1018820

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 1018770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	4.0	U	4.0	1.7	ug/L		01/30/25 10:24	01/30/25 19:02	1
Cobalt	4.0	U	4.0	0.41	ug/L		01/30/25 10:24	01/30/25 19:02	1
Copper	4.0	U	4.0	2.0	ug/L		01/30/25 10:24	01/30/25 19:02	1
Iron	120	U	120	33.7	ug/L		01/30/25 10:24	01/30/25 19:02	1
Lead	1.2	U	1.2	0.42	ug/L		01/30/25 10:24	01/30/25 19:02	1
Magnesium	200	U	200	21.8	ug/L		01/30/25 10:24	01/30/25 19:02	1
Manganese	8.0	U	8.0	0.84	ug/L		01/30/25 10:24	01/30/25 19:02	1
Nickel	4.0	U	4.0	1.4	ug/L		01/30/25 10:24	01/30/25 19:02	1
Potassium	200	U	200	83.3	ug/L		01/30/25 10:24	01/30/25 19:02	1
Selenium	2.5	U	2.5	0.43	ug/L		01/30/25 10:24	01/30/25 19:02	1
Silver	2.0	U	2.0	1.3	ug/L		01/30/25 10:24	01/30/25 19:02	1
Sodium	500	U	500	180	ug/L		01/30/25 10:24	01/30/25 19:02	1
Thallium	0.80	U	0.80	0.19	ug/L		01/30/25 10:24	01/30/25 19:02	1
Vanadium	4.0	U	4.0	1.0	ug/L		01/30/25 10:24	01/30/25 19:02	1
Zinc	16.0	U	16.0	4.2	ug/L		01/30/25 10:24	01/30/25 19:02	1

Lab Sample ID: LCS 460-1018770/2-A
Matrix: Water
Analysis Batch: 1018820

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 1018770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2530		ug/L		101	80 - 120
Antimony	25.0	23.26		ug/L		93	80 - 120
Arsenic	50.0	53.05		ug/L		106	80 - 120
Barium	50.0	51.37		ug/L		103	80 - 120
Beryllium	25.0	22.87		ug/L		91	80 - 120
Cadmium	25.0	24.64		ug/L		99	80 - 120
Calcium	2500	2547		ug/L		102	80 - 120
Chromium	50.0	52.67		ug/L		105	80 - 120
Cobalt	25.0	26.24		ug/L		105	80 - 120
Copper	50.0	54.10		ug/L		108	80 - 120
Iron	2500	2777		ug/L		111	80 - 120
Lead	25.0	25.02		ug/L		100	80 - 120
Magnesium	2500	2529		ug/L		101	80 - 120
Manganese	250	265.1		ug/L		106	80 - 120
Nickel	50.0	52.66		ug/L		105	80 - 120
Potassium	2500	2597		ug/L		104	80 - 120
Selenium	50.0	53.26		ug/L		107	80 - 120
Silver	25.0	25.06		ug/L		100	80 - 120
Sodium	2500	2630		ug/L		105	80 - 120
Thallium	20.0	20.06		ug/L		100	80 - 120
Vanadium	50.0	52.76		ug/L		106	80 - 120
Zinc	250	264.0		ug/L		106	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319154-E-3-C MS
Matrix: Water
Analysis Batch: 1018820

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 1018770

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	85.9	B	2500	2562		ug/L		99	75 - 125
Antimony	2.0	U	25.0	24.57		ug/L		98	75 - 125
Arsenic	2.0	U	50.0	50.83		ug/L		102	75 - 125
Barium	28.3		50.0	74.71		ug/L		93	75 - 125
Beryllium	0.80	U	25.0	23.81		ug/L		95	75 - 125
Cadmium	2.0	U	25.0	23.86		ug/L		95	75 - 125
Calcium	41500		2500	43720	4	ug/L		87	75 - 125
Chromium	4.0	U	50.0	50.78		ug/L		102	75 - 125
Cobalt	5.4		25.0	29.72		ug/L		97	75 - 125
Copper	4.0	U	50.0	51.81		ug/L		104	75 - 125
Iron	135		2500	2639		ug/L		100	75 - 125
Lead	0.64	J	25.0	24.88		ug/L		97	75 - 125
Magnesium	10400		2500	12410	4	ug/L		79	75 - 125
Manganese	433		250	664.0		ug/L		92	75 - 125
Nickel	4.4		50.0	53.30		ug/L		98	75 - 125
Potassium	26900		2500	28290	4	ug/L		56	75 - 125
Selenium	2.5	U	50.0	50.59		ug/L		101	75 - 125
Silver	2.0	U	25.0	24.05		ug/L		96	75 - 125
Sodium	108000		2500	105400	4	ug/L		-96	75 - 125
Thallium	0.80	U	20.0	19.44		ug/L		97	75 - 125
Vanadium	4.0	U	50.0	50.58		ug/L		101	75 - 125
Zinc	16.0	U	250	254.0		ug/L		102	75 - 125

Lab Sample ID: 460-319154-E-3-B DU
Matrix: Water
Analysis Batch: 1018820

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 1018770

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	85.9	B	83.72		ug/L		3	20
Antimony	2.0	U	2.0	U	ug/L		NC	20
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	28.3		27.40		ug/L		3	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	41500		40450		ug/L		3	20
Chromium	4.0	U	4.0	U	ug/L		NC	20
Cobalt	5.4		5.30		ug/L		3	20
Copper	4.0	U	4.0	U	ug/L		NC	20
Iron	135		137.9		ug/L		2	20
Lead	0.64	J	0.638	J	ug/L		0	20
Magnesium	10400		9939		ug/L		5	20
Manganese	433		416.7		ug/L		4	20
Nickel	4.4		4.22		ug/L		5	20
Potassium	26900		25670		ug/L		5	20
Selenium	2.5	U	2.5	U	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Sodium	108000		103500		ug/L		4	20
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	4.0	U	4.0	U	ug/L		NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319154-E-3-B DU
Matrix: Water
Analysis Batch: 1018820

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 1018770

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Zinc	16.0	U	16.0	U	ug/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-1017796/1-A
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		01/23/25 11:38	01/23/25 14:21	1

Lab Sample ID: LCS 460-1017796/2-A
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.999		ug/L		100	80 - 120

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	1.05		ug/L		105	75 - 125

Lab Sample ID: 460-319158-2 MSD
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.03		ug/L		103	75 - 125	2	20

Lab Sample ID: 460-319158-2 DU
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

Lab Sample ID: MB 460-1018581/1-A
Matrix: Water
Analysis Batch: 1018647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		01/29/25 11:25	01/29/25 13:34	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 460-1018581/2-A
Matrix: Water
Analysis Batch: 1018647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018581

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			1.00	1.03		ug/L		103	80 - 120		

Lab Sample ID: 460-319086-E-5-C MS
Matrix: Water
Analysis Batch: 1018647

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.20	U	1.00	1.03		ug/L		103	75 - 125		

Lab Sample ID: 460-319086-E-5-B DU
Matrix: Water
Analysis Batch: 1018647

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018581

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.20	U		0.20	U	ug/L				NC	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-1017691/10
Matrix: Water
Analysis Batch: 1017691

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	10.0	U	10.0	8.1	ug/L			01/22/25 22:17	1

Lab Sample ID: LCSSRM 460-1017691/11
Matrix: Water
Analysis Batch: 1017691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			74.7	77.02		ug/L		103.1	84.2 - 114.5		

Lab Sample ID: MRL 460-1017691/9
Matrix: Water
Analysis Batch: 1017691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			10.0	10.47		ug/L		105	50 - 150		

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1017691

Client Sample ID: MW-01_20250122
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)	10.0	U	150	159.5		ug/L		106	85 - 115		

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 460-319158-2 DU
Matrix: Water
Analysis Batch: 1017691

Client Sample ID: MW-01_20250122
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cr (VI)	10.0	U		10.0	U	ug/L				NC	20

Lab Sample ID: MB 460-1018378/10
Matrix: Water
Analysis Batch: 1018378

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	10.0	U	10.0	8.1	ug/L			01/28/25 09:10	1

Lab Sample ID: LCSSRM 460-1018378/11
Matrix: Water
Analysis Batch: 1018378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			77.6	77.13		ug/L		99.4	84.1 - 114.4		

Lab Sample ID: MRL 460-1018378/9
Matrix: Water
Analysis Batch: 1018378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			10.0	9.54	J	ug/L		95	50 - 150		

Lab Sample ID: 460-319369-1 MS
Matrix: Water
Analysis Batch: 1018378

Client Sample ID: MW-03_20250127
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)	10.0	U	300	294.8		ug/L		98	85 - 115		

Lab Sample ID: 460-319369-1 DU
Matrix: Water
Analysis Batch: 1018378

Client Sample ID: MW-03_20250127
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cr (VI)	10.0	U		10.0	U	ug/L				NC	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 460-1018026/13-A
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	10.0	U	10.0	4.0	ug/L		01/24/25 17:52	01/24/25 20:48	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 460-1018026/14-A
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	100	92.20		ug/L		92	85 - 115

Lab Sample ID: MRL 460-1018026/12-A
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0100	0.0112		mg/L		112	50 - 150

Lab Sample ID: 460-319158-2 MS
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	858		200	1010	4	ug/L		76	90 - 110

Lab Sample ID: 460-319158-2 MSD
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: MW-01_20250122
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	858		200	1075	4	ug/L		109	90 - 110	6	35

Lab Sample ID: MB 460-1018763/13-A
Matrix: Water
Analysis Batch: 1018797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	10.0	U	10.0	4.0	ug/L		01/30/25 09:24	01/30/25 12:36	1

Lab Sample ID: LCS 460-1018763/14-A
Matrix: Water
Analysis Batch: 1018797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018763

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	100	98.00		ug/L		98	85 - 115

Lab Sample ID: MRL 460-1018763/12-A
Matrix: Water
Analysis Batch: 1018797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018763

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0100	0.0101		mg/L		101	50 - 150

Lab Sample ID: 460-319086-F-1-B MS
Matrix: Water
Analysis Batch: 1018797

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018763

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	10.0	U	200	201.0		ug/L		101	90 - 110

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: 460-319086-F-1-C MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 1018797
Prep Batch: 1018763

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	10.0	U	200	201.0		ug/L		101	90 - 110	0	35

QC Association Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

GC/MS VOA

Analysis Batch: 1017719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	8260D	
460-319158-2	MW-01_20250122	Total/NA	Water	8260D	
460-319158-3	MW-0X_20250122	Total/NA	Water	8260D	
460-319158-4	FB-01_20250122	Total/NA	Water	8260D	
460-319158-5	TB-01_20250122	Total/NA	Water	8260D	
MB 460-1017719/8	Method Blank	Total/NA	Water	8260D	
LCS 460-1017719/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-1017719/5	Lab Control Sample Dup	Total/NA	Water	8260D	
460-319158-2 MS	MW-01_20250122	Total/NA	Water	8260D	
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	8260D	

Analysis Batch: 1018632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	8260D	
MB 460-1018632/9	Method Blank	Total/NA	Water	8260D	
LCS 460-1018632/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-1018632/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 1017771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	3510C	
460-319158-2	MW-01_20250122	Total/NA	Water	3510C	
460-319158-3	MW-0X_20250122	Total/NA	Water	3510C	
460-319158-4	FB-01_20250122	Total/NA	Water	3510C	
MB 460-1017771/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017771/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017771/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-319158-2 MS	MW-01_20250122	Total/NA	Water	3510C	
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	3510C	

Prep Batch: 1017773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	3510C	
460-319158-2	MW-01_20250122	Total/NA	Water	3510C	
460-319158-3	MW-0X_20250122	Total/NA	Water	3510C	
460-319158-4	FB-01_20250122	Total/NA	Water	3510C	
MB 460-1017773/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017773/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017773/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-319158-2 MS	MW-01_20250122	Total/NA	Water	3510C	
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	3510C	

Analysis Batch: 1017842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	8270E SIM ID	1017773
460-319158-2	MW-01_20250122	Total/NA	Water	8270E SIM ID	1017773
460-319158-3	MW-0X_20250122	Total/NA	Water	8270E SIM ID	1017773
460-319158-4	FB-01_20250122	Total/NA	Water	8270E SIM ID	1017773
MB 460-1017773/1-A	Method Blank	Total/NA	Water	8270E SIM ID	1017773

GC/MS Semi VOA (Continued)

Analysis Batch: 1017842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-1017773/2-A	Lab Control Sample	Total/NA	Water	8270E SIM ID	1017773
LCSD 460-1017773/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM ID	1017773
460-319158-2 MS	MW-01_20250122	Total/NA	Water	8270E SIM ID	1017773
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	8270E SIM ID	1017773

Analysis Batch: 1017857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	8270E	1017771
460-319158-2	MW-01_20250122	Total/NA	Water	8270E	1017771
460-319158-3	MW-0X_20250122	Total/NA	Water	8270E	1017771
460-319158-4	FB-01_20250122	Total/NA	Water	8270E	1017771
MB 460-1017771/1-A	Method Blank	Total/NA	Water	8270E	1017771
LCS 460-1017771/2-A	Lab Control Sample	Total/NA	Water	8270E	1017771
LCSD 460-1017771/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	1017771
460-319158-2 MS	MW-01_20250122	Total/NA	Water	8270E	1017771
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	8270E	1017771

Prep Batch: 1018363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	3510C	
MB 460-1018363/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018363/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018363/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 1018383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	3510C	
MB 460-1018383/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018383/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018383/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 1018391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	8270E	1018383
MB 460-1018383/1-A	Method Blank	Total/NA	Water	8270E	1018383
LCS 460-1018383/2-A	Lab Control Sample	Total/NA	Water	8270E	1018383
LCSD 460-1018383/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	1018383

Analysis Batch: 1018435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	8270E SIM ID	1018363
MB 460-1018363/1-A	Method Blank	Total/NA	Water	8270E SIM ID	1018363
LCS 460-1018363/2-A	Lab Control Sample	Total/NA	Water	8270E SIM ID	1018363
LCSD 460-1018363/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM ID	1018363

GC Semi VOA

Prep Batch: 600140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	3510C	
460-319158-2	MW-01_20250122	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 600140 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-3	MW-0X_20250122	Total/NA	Water	3510C	
460-319158-4	FB-01_20250122	Total/NA	Water	3510C	
MB 410-600140/1-B	Method Blank	Total/NA	Water	3510C	
MB 410-600140/1-C	Method Blank	Total/NA	Water	3510C	
LCS 410-600140/2-B	Lab Control Sample	Total/NA	Water	3510C	
LCS 410-600140/2-C	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-600140/3-B	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 410-600140/3-C	Lab Control Sample Dup	Total/NA	Water	3510C	
460-319158-2 MS	MW-01_20250122	Total/NA	Water	3510C	
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	3510C	

Cleanup Batch: 600206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	3630C	600140
460-319158-1	MW-02_20250122	Total/NA	Water	3630C	600140
460-319158-2	MW-01_20250122	Total/NA	Water	3630C	600140
460-319158-2	MW-01_20250122	Total/NA	Water	3630C	600140
460-319158-3	MW-0X_20250122	Total/NA	Water	3630C	600140
460-319158-3	MW-0X_20250122	Total/NA	Water	3630C	600140
460-319158-4	FB-01_20250122	Total/NA	Water	3630C	600140
460-319158-4	FB-01_20250122	Total/NA	Water	3630C	600140
MB 410-600140/1-B	Method Blank	Total/NA	Water	3630C	600140
MB 410-600140/1-C	Method Blank	Total/NA	Water	3630C	600140
LCS 410-600140/2-B	Lab Control Sample	Total/NA	Water	3630C	600140
LCS 410-600140/2-C	Lab Control Sample	Total/NA	Water	3630C	600140
LCSD 410-600140/3-B	Lab Control Sample Dup	Total/NA	Water	3630C	600140
LCSD 410-600140/3-C	Lab Control Sample Dup	Total/NA	Water	3630C	600140
460-319158-2 MS	MW-01_20250122	Total/NA	Water	3630C	600140
460-319158-2 MS	MW-01_20250122	Total/NA	Water	3630C	600140
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	3630C	600140
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	3630C	600140

Analysis Batch: 600460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	MA-EPH	600206
460-319158-2	MW-01_20250122	Total/NA	Water	MA-EPH	600206
460-319158-3	MW-0X_20250122	Total/NA	Water	MA-EPH	600206
460-319158-4	FB-01_20250122	Total/NA	Water	MA-EPH	600206
MB 410-600140/1-C	Method Blank	Total/NA	Water	MA-EPH	600206
LCS 410-600140/2-C	Lab Control Sample	Total/NA	Water	MA-EPH	600206
LCSD 410-600140/3-C	Lab Control Sample Dup	Total/NA	Water	MA-EPH	600206
460-319158-2 MS	MW-01_20250122	Total/NA	Water	MA-EPH	600206
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	MA-EPH	600206

Analysis Batch: 600461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	MA-EPH	600206
460-319158-2	MW-01_20250122	Total/NA	Water	MA-EPH	600206
460-319158-3	MW-0X_20250122	Total/NA	Water	MA-EPH	600206
460-319158-4	FB-01_20250122	Total/NA	Water	MA-EPH	600206
MB 410-600140/1-B	Method Blank	Total/NA	Water	MA-EPH	600206

GC Semi VOA (Continued)

Analysis Batch: 600461 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-600140/2-B	Lab Control Sample	Total/NA	Water	MA-EPH	600206
LCSD 410-600140/3-B	Lab Control Sample Dup	Total/NA	Water	MA-EPH	600206
460-319158-2 MS	MW-01_20250122	Total/NA	Water	MA-EPH	600206
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	MA-EPH	600206

Prep Batch: 600679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	3510C	
MB 410-600679/1-B	Method Blank	Total/NA	Water	3510C	
MB 410-600679/1-C	Method Blank	Total/NA	Water	3510C	
LCS 410-600679/2-B	Lab Control Sample	Total/NA	Water	3510C	
LCS 410-600679/2-C	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-600679/3-B	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 410-600679/3-C	Lab Control Sample Dup	Total/NA	Water	3510C	

Cleanup Batch: 601614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	3630C	600679
460-319369-1	MW-03_20250127	Total/NA	Water	3630C	600679
MB 410-600679/1-B	Method Blank	Total/NA	Water	3630C	600679
MB 410-600679/1-C	Method Blank	Total/NA	Water	3630C	600679
LCS 410-600679/2-B	Lab Control Sample	Total/NA	Water	3630C	600679
LCS 410-600679/2-C	Lab Control Sample	Total/NA	Water	3630C	600679
LCSD 410-600679/3-B	Lab Control Sample Dup	Total/NA	Water	3630C	600679
LCSD 410-600679/3-C	Lab Control Sample Dup	Total/NA	Water	3630C	600679

Analysis Batch: 601844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	MA-EPH	601614
MB 410-600679/1-B	Method Blank	Total/NA	Water	MA-EPH	601614
LCS 410-600679/2-B	Lab Control Sample	Total/NA	Water	MA-EPH	601614
LCSD 410-600679/3-B	Lab Control Sample Dup	Total/NA	Water	MA-EPH	601614

Analysis Batch: 602286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	MA-EPH	601614
MB 410-600679/1-C	Method Blank	Total/NA	Water	MA-EPH	601614
LCS 410-600679/2-C	Lab Control Sample	Total/NA	Water	MA-EPH	601614
LCSD 410-600679/3-C	Lab Control Sample Dup	Total/NA	Water	MA-EPH	601614

Prep Batch: 1017861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	8151A	
460-319158-2	MW-01_20250122	Total/NA	Water	8151A	
460-319158-3	MW-0X_20250122	Total/NA	Water	8151A	
460-319158-4	FB-01_20250122	Total/NA	Water	8151A	
MB 460-1017861/1-A	Method Blank	Total/NA	Water	8151A	
LCS 460-1017861/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 460-1017861/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
460-319158-2 MS	MW-01_20250122	Total/NA	Water	8151A	
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	8151A	

QC Association Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

GC Semi VOA

Prep Batch: 1017866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	3510C	
460-319158-2	MW-01_20250122	Total/NA	Water	3510C	
460-319158-3	MW-0X_20250122	Total/NA	Water	3510C	
460-319158-4	FB-01_20250122	Total/NA	Water	3510C	
MB 460-1017866/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017866/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017866/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-319158-2 MS	MW-01_20250122	Total/NA	Water	3510C	
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	3510C	

Prep Batch: 1017868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	3510C	
460-319158-2	MW-01_20250122	Total/NA	Water	3510C	
460-319158-3	MW-0X_20250122	Total/NA	Water	3510C	
460-319158-4	FB-01_20250122	Total/NA	Water	3510C	
MB 460-1017868/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017868/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017868/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-319158-2 MS	MW-01_20250122	Total/NA	Water	3510C	
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	3510C	

Analysis Batch: 1017886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	8081B	1017868
460-319158-2	MW-01_20250122	Total/NA	Water	8081B	1017868
460-319158-3	MW-0X_20250122	Total/NA	Water	8081B	1017868
460-319158-4	FB-01_20250122	Total/NA	Water	8081B	1017868
MB 460-1017868/1-A	Method Blank	Total/NA	Water	8081B	1017868
LCS 460-1017868/2-A	Lab Control Sample	Total/NA	Water	8081B	1017868
LCSD 460-1017868/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	1017868
460-319158-2 MS	MW-01_20250122	Total/NA	Water	8081B	1017868
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	8081B	1017868

Analysis Batch: 1017892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	8082A	1017866
460-319158-2	MW-01_20250122	Total/NA	Water	8082A	1017866
460-319158-3	MW-0X_20250122	Total/NA	Water	8082A	1017866
460-319158-4	FB-01_20250122	Total/NA	Water	8082A	1017866
MB 460-1017866/1-A	Method Blank	Total/NA	Water	8082A	1017866
LCS 460-1017866/2-A	Lab Control Sample	Total/NA	Water	8082A	1017866
LCSD 460-1017866/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	1017866
460-319158-2 MS	MW-01_20250122	Total/NA	Water	8082A	1017866
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	8082A	1017866

Analysis Batch: 1017895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	8151A	1017861
460-319158-2	MW-01_20250122	Total/NA	Water	8151A	1017861
460-319158-3	MW-0X_20250122	Total/NA	Water	8151A	1017861

GC Semi VOA (Continued)

Analysis Batch: 1017895 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-4	FB-01_20250122	Total/NA	Water	8151A	1017861
MB 460-1017861/1-A	Method Blank	Total/NA	Water	8151A	1017861
LCS 460-1017861/2-A	Lab Control Sample	Total/NA	Water	8151A	1017861
LCSD 460-1017861/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	1017861
460-319158-2 MS	MW-01_20250122	Total/NA	Water	8151A	1017861
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	8151A	1017861

Leach Batch: 1018130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-1018130/1-E	Method Blank	Total/NA	Water	1311	
460-319129-A-1-H MS	Matrix Spike	TCLP	Water	1311	

Prep Batch: 1018283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	8151A	
LB 460-1018130/1-E	Method Blank	Total/NA	Water	8151A	1018130
MB 460-1018283/1-A	Method Blank	Total/NA	Water	8151A	
LCS 460-1018283/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 460-1018283/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
460-319129-A-1-H MS	Matrix Spike	TCLP	Water	8151A	1018130

Analysis Batch: 1018301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	8151A	1018283
LB 460-1018130/1-E	Method Blank	Total/NA	Water	8151A	1018283
MB 460-1018283/1-A	Method Blank	Total/NA	Water	8151A	1018283
LCS 460-1018283/2-A	Lab Control Sample	Total/NA	Water	8151A	1018283
LCSD 460-1018283/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	1018283
460-319129-A-1-H MS	Matrix Spike	TCLP	Water	8151A	1018283

Prep Batch: 1018366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	3510C	
MB 460-1018366/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018366/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018366/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 1018372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	3510C	
MB 460-1018372/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018372/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018372/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 1018406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	8081B	1018372
MB 460-1018372/1-A	Method Blank	Total/NA	Water	8081B	1018372
LCS 460-1018372/2-A	Lab Control Sample	Total/NA	Water	8081B	1018372
LCSD 460-1018372/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	1018372

GC Semi VOA

Analysis Batch: 1018427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	8082A	1018366
MB 460-1018366/1-A	Method Blank	Total/NA	Water	8082A	1018366
LCS 460-1018366/2-A	Lab Control Sample	Total/NA	Water	8082A	1018366
LCSD 460-1018366/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	1018366

Prep Batch: 1018883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	3510C	
MB 460-1018883/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018883/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018883/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 1018959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	8015D	1018883
MB 460-1018883/1-A	Method Blank	Total/NA	Water	8015D	1018883
LCS 460-1018883/2-A	Lab Control Sample	Total/NA	Water	8015D	1018883
LCSD 460-1018883/3-A	Lab Control Sample Dup	Total/NA	Water	8015D	1018883

Metals

Prep Batch: 1017796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	7470A	
460-319158-2	MW-01_20250122	Total/NA	Water	7470A	
460-319158-3	MW-0X_20250122	Total/NA	Water	7470A	
460-319158-4	FB-01_20250122	Total/NA	Water	7470A	
MB 460-1017796/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-1017796/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-319158-2 MS	MW-01_20250122	Total/NA	Water	7470A	
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	7470A	
460-319158-2 DU	MW-01_20250122	Total/NA	Water	7470A	

Analysis Batch: 1017835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	7470A	1017796
460-319158-2	MW-01_20250122	Total/NA	Water	7470A	1017796
460-319158-3	MW-0X_20250122	Total/NA	Water	7470A	1017796
460-319158-4	FB-01_20250122	Total/NA	Water	7470A	1017796
MB 460-1017796/1-A	Method Blank	Total/NA	Water	7470A	1017796
LCS 460-1017796/2-A	Lab Control Sample	Total/NA	Water	7470A	1017796
460-319158-2 MS	MW-01_20250122	Total/NA	Water	7470A	1017796
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	7470A	1017796
460-319158-2 DU	MW-01_20250122	Total/NA	Water	7470A	1017796

Prep Batch: 1018232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total Recoverable	Water	3005A	
460-319158-2	MW-01_20250122	Total Recoverable	Water	3005A	
460-319158-3	MW-0X_20250122	Total Recoverable	Water	3005A	
460-319158-4	FB-01_20250122	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 1018232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1018232/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 460-1018232/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
460-319158-2 MS	MW-01_20250122	Total Recoverable	Water	3005A	
460-319158-2 MSD	MW-01_20250122	Total Recoverable	Water	3005A	
460-319158-2 DU	MW-01_20250122	Total Recoverable	Water	3005A	

Analysis Batch: 1018258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total Recoverable	Water	6020B	1018232
460-319158-2	MW-01_20250122	Total Recoverable	Water	6020B	1018232
460-319158-3	MW-0X_20250122	Total Recoverable	Water	6020B	1018232
460-319158-4	FB-01_20250122	Total Recoverable	Water	6020B	1018232
MB 460-1018232/1-A	Method Blank	Total Recoverable	Water	6020B	1018232
LCS 460-1018232/2-A	Lab Control Sample	Total Recoverable	Water	6020B	1018232
460-319158-2 MS	MW-01_20250122	Total Recoverable	Water	6020B	1018232
460-319158-2 MSD	MW-01_20250122	Total Recoverable	Water	6020B	1018232
460-319158-2 DU	MW-01_20250122	Total Recoverable	Water	6020B	1018232

Prep Batch: 1018581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	7470A	
MB 460-1018581/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-1018581/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-319086-E-5-C MS	Matrix Spike	Total/NA	Water	7470A	
460-319086-E-5-B DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 1018647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	7470A	1018581
MB 460-1018581/1-A	Method Blank	Total/NA	Water	7470A	1018581
LCS 460-1018581/2-A	Lab Control Sample	Total/NA	Water	7470A	1018581
460-319086-E-5-C MS	Matrix Spike	Total/NA	Water	7470A	1018581
460-319086-E-5-B DU	Duplicate	Total/NA	Water	7470A	1018581

Prep Batch: 1018770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total Recoverable	Water	3005A	
MB 460-1018770/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 460-1018770/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
460-319154-E-3-C MS	Matrix Spike	Total Recoverable	Water	3005A	
460-319154-E-3-B DU	Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 1018820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total Recoverable	Water	6020B	1018770
MB 460-1018770/1-A	Method Blank	Total Recoverable	Water	6020B	1018770
LCS 460-1018770/2-A	Lab Control Sample	Total Recoverable	Water	6020B	1018770
460-319154-E-3-C MS	Matrix Spike	Total Recoverable	Water	6020B	1018770
460-319154-E-3-B DU	Duplicate	Total Recoverable	Water	6020B	1018770

General Chemistry

Analysis Batch: 1017691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	7196A	
460-319158-2	MW-01_20250122	Total/NA	Water	7196A	
460-319158-3	MW-0X_20250122	Total/NA	Water	7196A	
460-319158-4	FB-01_20250122	Total/NA	Water	7196A	
MB 460-1017691/10	Method Blank	Total/NA	Water	7196A	
LCSSRM 460-1017691/11	Lab Control Sample	Total/NA	Water	7196A	
MRL 460-1017691/9	Lab Control Sample	Total/NA	Water	7196A	
460-319158-2 MS	MW-01_20250122	Total/NA	Water	7196A	
460-319158-2 DU	MW-01_20250122	Total/NA	Water	7196A	

Prep Batch: 1018026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	9012B	
460-319158-2	MW-01_20250122	Total/NA	Water	9012B	
460-319158-3	MW-0X_20250122	Total/NA	Water	9012B	
460-319158-4	FB-01_20250122	Total/NA	Water	9012B	
MB 460-1018026/13-A	Method Blank	Total/NA	Water	9012B	
LCS 460-1018026/14-A	Lab Control Sample	Total/NA	Water	9012B	
MRL 460-1018026/12-A	Lab Control Sample	Total/NA	Water	9012B	
460-319158-2 MS	MW-01_20250122	Total/NA	Water	9012B	
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	9012B	

Analysis Batch: 1018045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	9012B	1018026
460-319158-2	MW-01_20250122	Total/NA	Water	9012B	1018026
460-319158-3	MW-0X_20250122	Total/NA	Water	9012B	1018026
460-319158-4	FB-01_20250122	Total/NA	Water	9012B	1018026
MB 460-1018026/13-A	Method Blank	Total/NA	Water	9012B	1018026
LCS 460-1018026/14-A	Lab Control Sample	Total/NA	Water	9012B	1018026
MRL 460-1018026/12-A	Lab Control Sample	Total/NA	Water	9012B	1018026
460-319158-2 MS	MW-01_20250122	Total/NA	Water	9012B	1018026
460-319158-2 MSD	MW-01_20250122	Total/NA	Water	9012B	1018026

Analysis Batch: 1018378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	7196A	
MB 460-1018378/10	Method Blank	Total/NA	Water	7196A	
LCSSRM 460-1018378/11	Lab Control Sample	Total/NA	Water	7196A	
MRL 460-1018378/9	Lab Control Sample	Total/NA	Water	7196A	
460-319369-1 MS	MW-03_20250127	Total/NA	Water	7196A	
460-319369-1 DU	MW-03_20250127	Total/NA	Water	7196A	

Analysis Batch: 1018384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	7196A	

Analysis Batch: 1018430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-1	MW-02_20250122	Total/NA	Water	7196A	
460-319158-2	MW-01_20250122	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 1018430 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319158-3	MW-0X_20250122	Total/NA	Water	7196A	
460-319158-4	FB-01_20250122	Total/NA	Water	7196A	

Prep Batch: 1018763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	9012B	
MB 460-1018763/13-A	Method Blank	Total/NA	Water	9012B	
LCS 460-1018763/14-A	Lab Control Sample	Total/NA	Water	9012B	
MRL 460-1018763/12-A	Lab Control Sample	Total/NA	Water	9012B	
460-319086-F-1-B MS	Matrix Spike	Total/NA	Water	9012B	
460-319086-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	

Analysis Batch: 1018797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319369-1	MW-03_20250127	Total/NA	Water	9012B	1018763
MB 460-1018763/13-A	Method Blank	Total/NA	Water	9012B	1018763
LCS 460-1018763/14-A	Lab Control Sample	Total/NA	Water	9012B	1018763
MRL 460-1018763/12-A	Lab Control Sample	Total/NA	Water	9012B	1018763
460-319086-F-1-B MS	Matrix Spike	Total/NA	Water	9012B	1018763
460-319086-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	1018763

Lab Chronicle

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-02_20250122
Lab Sample ID: 460-319158-1
Date Collected: 01/22/25 10:33
Matrix: Water
Date Received: 01/22/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1017719	SZD	EET EDI	01/23/25 12:41
Total/NA	Prep	3510C			1017771	ZEH	EET EDI	01/23/25 10:04
Total/NA	Analysis	8270E		1	1017857	MME	EET EDI	01/23/25 22:27
Total/NA	Prep	3510C			1017773	ZEH	EET EDI	01/23/25 10:06
Total/NA	Analysis	8270E SIM ID		1	1017842	MME	EET EDI	01/23/25 23:41
Total/NA	Prep	3510C			1017868	JMS	EET EDI	01/23/25 20:22
Total/NA	Analysis	8081B		1	1017886	FAM	EET EDI	01/24/25 08:48
Total/NA	Prep	3510C			1017866	JMS	EET EDI	01/23/25 20:09
Total/NA	Analysis	8082A		1	1017892	JHP	EET EDI	01/24/25 13:23
Total/NA	Prep	8151A			1017861	JMS	EET EDI	01/23/25 19:30
Total/NA	Analysis	8151A		1	1017895	FAM	EET EDI	01/24/25 11:55
Total/NA	Prep	3510C			600140	UKL2	ELLE	01/28/25 21:18 - 01/29/25 02:17 [1]
Total/NA	Cleanup	3630C			600206	QKX3	ELLE	01/29/25 07:43
Total/NA	Analysis	MA-EPH		1	600460	UHEW	ELLE	01/29/25 20:02
Total/NA	Prep	3510C			600140	UKL2	ELLE	01/28/25 21:18 - 01/29/25 02:17 [1]
Total/NA	Cleanup	3630C			600206	QKX3	ELLE	01/29/25 07:43
Total/NA	Analysis	MA-EPH		1	600461	UHEW	ELLE	01/29/25 20:02
Total Recoverable	Prep	3005A			1018232	NNW	EET EDI	01/27/25 10:08
Total Recoverable	Analysis	6020B		1	1018258	MDC	EET EDI	01/27/25 16:24
Total/NA	Prep	7470A			1017796	RBS	EET EDI	01/23/25 11:38
Total/NA	Analysis	7470A		1	1017835	RBS	EET EDI	01/23/25 14:55
Total/NA	Analysis	7196A		1	1018430	JMP	EET EDI	01/28/25 16:44
Total/NA	Analysis	7196A		1	1017691	VBG	EET EDI	01/22/25 22:17
Total/NA	Prep	9012B			1018026	VBG	EET EDI	01/24/25 17:52
Total/NA	Analysis	9012B		3	1018045	VBG	EET EDI	01/24/25 21:20

Client Sample ID: MW-01_20250122
Lab Sample ID: 460-319158-2
Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1017719	SZD	EET EDI	01/23/25 12:19
Total/NA	Prep	3510C			1017771	ZEH	EET EDI	01/23/25 10:04
Total/NA	Analysis	8270E		1	1017857	MME	EET EDI	01/23/25 22:48
Total/NA	Prep	3510C			1017773	ZEH	EET EDI	01/23/25 10:06
Total/NA	Analysis	8270E SIM ID		1	1017842	MME	EET EDI	01/23/25 23:56
Total/NA	Prep	3510C			1017868	JMS	EET EDI	01/23/25 20:22
Total/NA	Analysis	8081B		1	1017886	FAM	EET EDI	01/24/25 08:09
Total/NA	Prep	3510C			1017866	JMS	EET EDI	01/23/25 20:09
Total/NA	Analysis	8082A		1	1017892	JHP	EET EDI	01/24/25 13:40
Total/NA	Prep	8151A			1017861	JMS	EET EDI	01/23/25 19:30
Total/NA	Analysis	8151A		1	1017895	FAM	EET EDI	01/24/25 12:14

Lab Chronicle

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-01_20250122
Lab Sample ID: 460-319158-2
Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			600140	UKL2	ELLE	01/28/25 21:18 - 01/29/25 02:17 [1]
Total/NA	Cleanup	3630C			600206	QKX3	ELLE	01/29/25 07:43
Total/NA	Analysis	MA-EPH		1	600460	UHEW	ELLE	01/29/25 20:24
Total/NA	Prep	3510C			600140	UKL2	ELLE	01/28/25 21:18 - 01/29/25 02:17 [1]
Total/NA	Cleanup	3630C			600206	QKX3	ELLE	01/29/25 07:43
Total/NA	Analysis	MA-EPH		1	600461	UHEW	ELLE	01/29/25 20:24
Total Recoverable	Prep	3005A			1018232	NNW	EET EDI	01/27/25 10:08
Total Recoverable	Analysis	6020B		1	1018258	MDC	EET EDI	01/27/25 16:11
Total/NA	Prep	7470A			1017796	RBS	EET EDI	01/23/25 11:38
Total/NA	Analysis	7470A		1	1017835	RBS	EET EDI	01/23/25 14:24
Total/NA	Analysis	7196A		1	1018430	JMP	EET EDI	01/28/25 16:44
Total/NA	Analysis	7196A		1	1017691	VBG	EET EDI	01/22/25 22:17
Total/NA	Prep	9012B			1018026	VBG	EET EDI	01/24/25 17:52
Total/NA	Analysis	9012B		3	1018045	VBG	EET EDI	01/24/25 21:18

Client Sample ID: MW-0X_20250122
Lab Sample ID: 460-319158-3
Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1017719	SZD	EET EDI	01/23/25 13:03
Total/NA	Prep	3510C			1017771	ZEH	EET EDI	01/23/25 10:04
Total/NA	Analysis	8270E		1	1017857	MME	EET EDI	01/23/25 23:09
Total/NA	Prep	3510C			1017773	ZEH	EET EDI	01/23/25 10:06
Total/NA	Analysis	8270E SIM ID		1	1017842	MME	EET EDI	01/24/25 00:12
Total/NA	Prep	3510C			1017868	JMS	EET EDI	01/23/25 20:22
Total/NA	Analysis	8081B		1	1017886	FAM	EET EDI	01/24/25 09:01
Total/NA	Prep	3510C			1017866	JMS	EET EDI	01/23/25 20:09
Total/NA	Analysis	8082A		1	1017892	JHP	EET EDI	01/24/25 14:30
Total/NA	Prep	8151A			1017861	JMS	EET EDI	01/23/25 19:30
Total/NA	Analysis	8151A		1	1017895	FAM	EET EDI	01/24/25 13:10
Total/NA	Prep	3510C			600140	UKL2	ELLE	01/28/25 21:18 - 01/29/25 02:17 [1]
Total/NA	Cleanup	3630C			600206	QKX3	ELLE	01/29/25 07:43
Total/NA	Analysis	MA-EPH		1	600460	UHEW	ELLE	01/29/25 21:31
Total/NA	Prep	3510C			600140	UKL2	ELLE	01/28/25 21:18 - 01/29/25 02:17 [1]
Total/NA	Cleanup	3630C			600206	QKX3	ELLE	01/29/25 07:43
Total/NA	Analysis	MA-EPH		1	600461	UHEW	ELLE	01/29/25 21:31
Total Recoverable	Prep	3005A			1018232	NNW	EET EDI	01/27/25 10:08
Total Recoverable	Analysis	6020B		1	1018258	MDC	EET EDI	01/27/25 16:26
Total/NA	Prep	7470A			1017796	RBS	EET EDI	01/23/25 11:38
Total/NA	Analysis	7470A		1	1017835	RBS	EET EDI	01/23/25 14:57
Total/NA	Analysis	7196A		1	1018430	JMP	EET EDI	01/28/25 16:44
Total/NA	Analysis	7196A		1	1017691	VBG	EET EDI	01/22/25 22:17

Lab Chronicle

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-0X_20250122
Lab Sample ID: 460-319158-3
Date Collected: 01/22/25 12:00
Matrix: Water
Date Received: 01/22/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			1018026	VBG	EET EDI	01/24/25 17:52
Total/NA	Analysis	9012B		3	1018045	VBG	EET EDI	01/24/25 21:21

Client Sample ID: FB-01_20250122
Lab Sample ID: 460-319158-4
Date Collected: 01/22/25 12:05
Matrix: Water
Date Received: 01/22/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1017719	SZD	EET EDI	01/23/25 11:34
Total/NA	Prep	3510C			1017771	ZEH	EET EDI	01/23/25 10:04
Total/NA	Analysis	8270E		1	1017857	MME	EET EDI	01/23/25 23:30
Total/NA	Prep	3510C			1017773	ZEH	EET EDI	01/23/25 10:06
Total/NA	Analysis	8270E SIM ID		1	1017842	MME	EET EDI	01/24/25 00:27
Total/NA	Prep	3510C			1017868	JMS	EET EDI	01/23/25 20:22
Total/NA	Analysis	8081B		1	1017886	FAM	EET EDI	01/24/25 09:14
Total/NA	Prep	3510C			1017866	JMS	EET EDI	01/23/25 20:09
Total/NA	Analysis	8082A		1	1017892	JHP	EET EDI	01/24/25 10:19
Total/NA	Prep	8151A			1017861	JMS	EET EDI	01/23/25 19:30
Total/NA	Analysis	8151A		1	1017895	FAM	EET EDI	01/24/25 13:29
Total/NA	Prep	3510C			600140	UKL2	ELLE	01/28/25 21:18 - 01/29/25 02:17 [1]
Total/NA	Cleanup	3630C			600206	QKX3	ELLE	01/29/25 07:43
Total/NA	Analysis	MA-EPH		1	600460	UHEW	ELLE	01/29/25 21:54
Total/NA	Prep	3510C			600140	UKL2	ELLE	01/28/25 21:18 - 01/29/25 02:17 [1]
Total/NA	Cleanup	3630C			600206	QKX3	ELLE	01/29/25 07:43
Total/NA	Analysis	MA-EPH		1	600461	UHEW	ELLE	01/29/25 21:54
Total Recoverable	Prep	3005A			1018232	NNW	EET EDI	01/27/25 10:08
Total Recoverable	Analysis	6020B		1	1018258	MDC	EET EDI	01/27/25 15:53
Total/NA	Prep	7470A			1017796	RBS	EET EDI	01/23/25 11:38
Total/NA	Analysis	7470A		1	1017835	RBS	EET EDI	01/23/25 15:02
Total/NA	Analysis	7196A		1	1018430	JMP	EET EDI	01/28/25 16:44
Total/NA	Analysis	7196A		1	1017691	VBG	EET EDI	01/22/25 22:17
Total/NA	Prep	9012B			1018026	VBG	EET EDI	01/24/25 17:52
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:09

Client Sample ID: TB-01_20250122
Lab Sample ID: 460-319158-5
Date Collected: 01/22/25 13:35
Matrix: Water
Date Received: 01/22/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1017719	SZD	EET EDI	01/23/25 11:56

Lab Chronicle

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Client Sample ID: MW-03_20250127
Lab Sample ID: 460-319369-1

Date Collected: 01/27/25 14:30
Matrix: Water

Date Received: 01/27/25 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1018632	VBP	EET EDI	01/30/25 03:44
Total/NA	Prep	3510C			1018383	NMP	EET EDI	01/28/25 10:04
Total/NA	Analysis	8270E		1	1018391	DXD	EET EDI	01/28/25 16:34
Total/NA	Prep	3510C			1018363	BXP	EET EDI	01/28/25 08:20
Total/NA	Analysis	8270E SIM ID		1	1018435	MME	EET EDI	01/28/25 23:37
Total/NA	Prep	3510C			1018883	JMS	EET EDI	01/31/25 13:17
Total/NA	Analysis	8015D		1	1018959	OXG	EET EDI	01/31/25 14:58
Total/NA	Prep	3510C			1018372	BXP	EET EDI	01/28/25 08:51
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 21:49
Total/NA	Prep	3510C			1018366	BXP	EET EDI	01/28/25 08:42
Total/NA	Analysis	8082A		1	1018427	AAA	EET EDI	01/28/25 19:09
Total/NA	Prep	8151A			1018283	JMS	EET EDI	01/28/25 08:56
Total/NA	Analysis	8151A		1	1018301	FAM	EET EDI	01/28/25 15:51
Total/NA	Prep	3510C			600679	ZFS6	ELLE	01/30/25 09:03 - 01/30/25 14:24 [1]
Total/NA	Cleanup	3630C			601614	QKX3	ELLE	02/03/25 07:59
Total/NA	Analysis	MA-EPH		1	601844	UHEW	ELLE	02/03/25 20:28
Total/NA	Prep	3510C			600679	ZFS6	ELLE	01/30/25 09:03 - 01/30/25 14:24 [1]
Total/NA	Cleanup	3630C			601614	QKX3	ELLE	02/03/25 07:59
Total/NA	Analysis	MA-EPH		1	602286	UHEW	ELLE	02/04/25 20:27
Total Recoverable	Prep	3005A			1018770	NNW	EET EDI	01/30/25 10:24
Total Recoverable	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 23:34
Total/NA	Prep	7470A			1018581	RBS	EET EDI	01/29/25 11:25
Total/NA	Analysis	7470A		1	1018647	RBS	EET EDI	01/29/25 13:48
Total/NA	Analysis	7196A		1	1018384	LBD	EET EDI	01/29/25 05:05
Total/NA	Analysis	7196A		1	1018378	AXP	EET EDI	01/28/25 09:10
Total/NA	Prep	9012B			1018763	SBW	EET EDI	01/30/25 09:24
Total/NA	Analysis	9012B		1	1018797	AXP	EET EDI	01/30/25 12:50

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Laboratory: Eurofins Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-25

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
7196A		Water	Cr (III)

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-25
Michigan	State	9930	01-31-25 *
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-25 *
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-25 *
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Edison

Accreditation/Certification Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-25 *
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-25
West Virginia (DW)	State	9906 C	01-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8270E SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET EDI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
8151A	Herbicides (GC)	SW846	EET EDI
MA-EPH	Massachusetts - Extractable Petroleum Hydrocarbons (GC)	MA DEP	ELLE
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
7196A	Chromium, Hexavalent	SW846	EET EDI
7196A	Chromium, Trivalent (Colorimetric)	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET EDI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
3630C	Silica Gel Cleanup	SW846	ELLE
5030C	Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
8151A	Extraction (Herbicides)	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET EDI

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: AKRF Inc
Job ID: 460-319158-1
Project/Site: Bud North - 2-21 Malt Drive, Long Island

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-319158-1	MW-02_20250122	Water	01/22/25 10:33	01/22/25 18:00
460-319158-2	MW-01_20250122	Water	01/22/25 13:35	01/22/25 18:00
460-319158-3	MW-0X_20250122	Water	01/22/25 12:00	01/22/25 18:00
460-319158-4	FB-01_20250122	Water	01/22/25 12:05	01/22/25 18:00
460-319158-5	TB-01_20250122	Water	01/22/25 13:35	01/22/25 18:00
460-319369-1	MW-03_20250127	Water	01/27/25 14:30	01/27/25 18:00

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Phone 732-549-3900 Fax 732-549-3679

Chain of Custody Record

NYC 222

eurofins

Client Information	Sampler: Mike Bates / Isabella Legovich	Lab PM: Flannery, Elizabeth J	Carrier Tracking No(s):	COC No: 460-190529-124698 1
Client Contact: ~~Michael Bates~~ Patrick Diggins	Phone	E-Mail: Elizabeth.Flannery@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 1
Company: AKRF Inc	PWSID	Analysis Requested (M3) (M6)		Job #: 319158
Address: 440 Park Avenue South 7th Floor	Due Date Requested:			Preservation Codes: A - HCL; N - None; D - HNO3; B - NaOH
City: New York	TAT Requested (days): Standard			
State, Zip: NY, 10016	Compliance Project: Δ Yes Δ No			
Phone	PO #: 200112			
Email: ~~Mbates@akrf.com~~ JDiggins@AKRF.com	WO #:			Other:
Project Name: Bud North - 2-21 Malt Drive, Long Island	Project #: 46045611			
Site: Bud North	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)	MAEPH - MA EPH	8015D_DRO - DRO & ORO	624.1_PREC - 624 TCL VOCs	8260D - TCL VOCs	8270E - TCL BNAs	8270E_SIM_MS_ID - 1,4-Dioxane	8081B, 8082A	6020B, 7470A	9012B - Cyanide, Total	8151A - Standard Herbicide List - 3 cmpds	7196A, 7196A_CR3	624.1_PREC, 8260D	8015D_DRO, 8151A	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	N	A	A	N	N	N	D	B	N	N	A	N		
MW-02_20250122	1/22/25	1033	G	Water			X	X		X	X	X	X	X	X	X	X		X	22	1
MW-01_20250122	"	1335	"	Water			X	X		X	X	X	X	X	X	X	X		X	66	2
MW-0X_20250122	"	1200	"	Water			X	X		X	X	X	X	X	X	X	X		X	22	3
FB-01_20250122	"	1205	"	Water			X	X		X	X	X	X	X	X	X	X		X	22	4
TB-01_20250122	-	-	-	Water						X										3	5
				Water																	
				Water																	

SHORT HOLD

460-319158 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: AHRF EQUIS, CAT B, Heel Sdcoper

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Mike Bates	1/22/25 1500	AKRF			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				1-22-25 1600	EET
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1-22-25 1800	EET		1/22/25 1800	EET

Custody Seals Intact: Δ Yes Δ No | Custody Seal No: no/cs ER#0

Cooler Temperature(s) °C and Other Remarks: 3.5/3.7 - 4.2/4.4 - 5.7/5.9 - 5.3/5.5 - 5.5/5.7

Ver 10/10/2024

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Page ____ of ____

Job Number: 379158

Number of Coolers: 4 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.5 °C	3.7 °C	Cooler #4:	5.3 °C	5.5 °C	Cooler #7:	°C	°C
Cooler #2:	4.2 °C	4.4 °C	Cooler #5:	5.5 °C	5.7 °C	Cooler #8:	°C	°C
Cooler #3:	5.7 °C	5.9 °C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				<2								≥12			
2				<2								>12			
3				<2								>12			
4				<2								>12			

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: VL Date: 1/22/25

Eurofins Edison
777 New Durham Road
Edison NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins

Client Information	Sampler: M Bates	Lab PM: Flannery Elizabeth J	Carrier Tracking No(s):	COC No: 460-190529-124698.2
Client Contact: ~~Michael Bates~~ Patrick D. Higgins	Phone:	E-Mail: Elizabeth.Flannery@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 1
Company: AKRF Inc	PWSID:	Analysis Requested		Job #: 319369

Address: 440 Park Avenue South 7th Floor	Due Date Requested:	
City: New York	TAT Requested (days): Standard	
State, Zip: NY 10016	Compliance Project: Δ Yes Δ No	
Phone:	PO #: 200112	
Email: ~~mbates@akrf.com~~ JD.99 NS@AKRF com	WO #:	
Project Name: Bud North 2-21 Malt Drive, Long Island	Project #: 46045611	
Site: Bud North	SSOW#:	

Preservation Codes:
A HCL
N None
D HNO3
B NaOH
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)	MAEPH MA EPH	8015D_DRO DRO & ORO	624.1_PREC~~624_TCL_VOCs~~ (MS)	8260D TCL VOCs	8270E TCL BNAs	8270E_SIM_MS_ID 1,4-Dioxane	8081B, 8082A	6020B, 7470A	9012B Cyanide, Total	8151A Standard Herbicide List 3 cmpds	7196A, 7196A_CR3	624.1_PREC~~8260D~~ (MS)	8015D_DRO, 8151A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	A	N	N	N	D	B	N	N	A	N		
MW-03_20250127	1/27/25	1430	G	Water			X	X		X	X	X	X	X	X	X	X		X	3	
				Water																	
				Water																	

460-319369 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: AKRF EQUIS, CAT B, Close SDG

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Mike Bates	Date/Time: 1/27/25 1500	Company: AKRF	Received by:	Date/Time: 1-27-25 16:30	Company: ET
Relinquished by:	Date/Time: 1-27-25 18:00	Company: ET	Received by:	Date/Time: 1/27/25 1800	Company: ET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No. NO/CSR #9		Cooler Temperature(s) °C and Other Remarks: 2.3/2.5		

Ver: 10/10/2024

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 319369

Number of Coolers: 1

IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.3 °C	2.5 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				<2								712			

If pH adjustments are required record the information below*

Sample No(s). adjusted: _____

Preservative Name/Conc. _____ Volume of Preservative used (ml) _____

Lot # of Preservative(s) _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038 Rev 4.1
10/22/2019

Initials: _____ Date: 1-27-25

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Flannery, Elizabeth J	Carrier Tracking No(s): N/A	COC No: 460-73185.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Elizabeth.Flannery@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 460-319158-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 1/29/2025			
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Bud North - 2-21 Malt Drive, Long Island	Project #: 46045611			
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)	MAEPH/3510C MA EPH	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-02_20250122 (460-319158-1)	1/22/25	10:33 Eastern	G	Water			X	2	
MW-01_20250122 (460-319158-2)	1/22/25	13:35 Eastern	G	Water			X	2	
MW-01_20250122 (460-319158-2MS)	1/22/25	13:35 Eastern	G	Water			X	2	
MW-01_20250122 (460-319158-2MSD)	1/22/25	13:35 Eastern	G	Water			X	2	
MW-0X_20250122 (460-319158-3)	1/22/25	12:00 Eastern	G	Water			X	2	
FB-01_20250122 (460-319158-4)	1/22/25	12:05 Eastern	G	Water			X	2	

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: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/23/25 1608	Company: ET	Received by:	Date/Time: 1/23/25 1608	Company: ET
Relinquished by:	Date/Time: 1/23/25 1928	Company: ET	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/23/25 1920	Company: ET

Custody Seals Intact: | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: R:1.6-2.6 C:1.6-2.6

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-319158-1

Login Number: 319158
List Number: 1
Creator: Rivera, Kenneth

List Source: Eurofins Edison

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	
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.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
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: AKRF Inc

Job Number: 460-319158-1

Login Number: 319158
List Number: 2
Creator: Reynolds, Benjamin

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 01/23/25 10:34 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-319158-1

Login Number: 319369
List Number: 1
Creator: Nelson, Rose E

List Source: Eurofins Edison

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	
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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-319158-1

Login Number: 319369
List Number: 2
Creator: Foreman, Kai

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 01/28/25 11:08 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

February 20, 2025

Mr. Patrick Diggins
AKRF
440 Park Avenue South
7th Floor
New York, NY 10016

Re: Data Usability Summary Report – Eurofins Edison and Eurofins Lancaster – 460-319158-1

Dear Mr. Diggins:

The evaluation of volatile organic analytical data by Eurofins Edison and Eurofins Lancaster for four water samples, one field blank and one trip blank from the Bud North site, which were reported in a single data package under Job No. 460-319158-1 has been completed. The following samples were reported:

MW-02_20250122	MW-01_20250122	MW-0X_20250122
FB-01_20250122	TB-01_20250122	MW-03_20250127

Analyses were performed in accordance with USEPA Methods 8260D (Volatile Organics), 8270D &E (Semi-Volatile Organics), 8082A (PCBs), 8081B (Pesticides), 8151A (Herbicides), MA EPH Rev. 2.1 (Fractionated Petroleum Hydrocarbons), 8015D (Total Petroleum Hydrocarbons), 6020B (Metals), 7470A (Mercury), 9012B (Cyanide) and 7196A (Hexavalent chromium). The review was performed to the extent possible, in accordance with the analytical methods and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	Yes
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes

5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes
7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result.

Volatile Organics

- The result for 2-hexanone in all samples are qualified as estimated (UJ) due to low response in the continuing calibration verification (CCV) standard.

- The results for 1,1,2-trichloro-1,2,2-trifluorethane, 1,1-dichloroethene, 2-butanone and cyclohexane in MW-01_20250122 are qualified as estimated (J-, UJ) due to low matrix spike (MS) and/or MS duplicate (MSD) recoveries.

Semi-Volatile Organics (Full Scan)

- The result for benzaldehyde in all samples is qualified as estimated (UJ) due to low response in the CCV.

- The results for all target acid extractable analytes except pentachlorophenol in MW-0X_20250122 and MW-03_20250127 are qualified as estimated (UJ) due to low surrogate recoveries.

- The results for benzo[a]anthracene, 3,3'-dichlorobenzidine, chrysene, bis(2-ethylhexyl) phthalate, di-n-octyl phthalate, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, indeno[1,2,3-cd]pyrene, dibenz(a,h)anthracene and benzo[g,h,i]perylene in MW-02_20250122, MW-01_20250122, FB-01_20250122 and MW-03_20250127 are qualified as estimated (J-, UJ) due to low surrogate recovery.

- The results for 4-nitrophenol, caprolactam and phenol in all samples are qualified as estimated (J-, UJ) due to low recovery in the laboratory control sample (LCS) and/or

LCS duplicate (LCSD).

- The results for 4-chloroaniline, caprolactam and phenol in MW-01_20250122 are qualified as estimated (J-, UJ) due to low MS and/or MSD recovery. The results for 2,4-dimethylphenol and fluoranthene in MW-01_20250122 are qualified as estimated (J+) due to high MS and/or MSD recovery.

Semi-Volatile Organics (Selected Ion Monitoring [SIM])

- Sample results are usable as reported.

PCBs

- Sample results are usable as reported.

Pesticides

- Sample results are usable as reported.

MA Extractable Petroleum Hydrocarbons

- The results for benzo[g,h,i]perylene, benzo[b]fluoranthene, and benzo[a]pyrene in MW-01_20250122 are qualified as estimated (UJ) due to low recoveries in the MSD.

Total Petroleum Hydrocarbons

- The result for ORO (C28-C44) in MW-03_20250127 is qualified as estimated (UJ) due to low recovery in the LCS and LCSD.

Herbicides

- The result for all target herbicides in FB-01_20250122 are qualified as estimated (UJ) due to low surrogate recovery.

- The result for 2,4-D in MW-02_20250122, MW-01_20250122, MW-0X_20250122 and FB-01_20250122 are qualified as estimated (UJ) due to low recovery in the LCSD.

- The results for 2,4,5-T and 2,4-D in MW-01_20250122 are qualified as estimated (UJ) due to low MS recovery and high MS/MSD relative percent difference (RPD).

Metals

- Sample results are usable as reported.

Cyanide

- Sample results are usable as reported.

Hexavalent chromium

- Sample results are usable as reported.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included in Attachment C.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
  - Method blanks
  - Field blanks
  - Trip Blanks
  - Surrogate recoveries
  - LCS/LCSD recoveries
  - MS/MSD recoveries
  - Internal standards
  - Serial dilutions
  - Duplicates
- Instrument related quality control data:
  - Instrument tunes
  - Calibration summaries
  - Interference Check Standards

In the remaining sections of this report, only those quality excursions resulting in qualified data are discussed below. Quality control excursions having no impact on sample results are not discussed.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package.

The report narrative noted that the container label for sample MW-01_20250122 did not match the information listed on the Chain-of-Custody (COC). Some sample containers were labeled MW-03_20250122. The report narrative does not indicate whether the client was notified. The validator confirmed with the client that the contents of the containers were from the correct monitoring well. MW-01 was the only sample collected that day and some of the jars labeled for MW-03 were inadvertently used.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of January 22 and 27, 2025. The samples were received at the laboratory on the same day as sample collection. All samples were received intact and analyzed within method holding time. Samples were sent to Eurofins Lancaster for MA Extractable Petroleum Hydrocarbon (EPH) analysis.

A. Volatile Organics

1. Calibration

One initial calibration (IC) was performed in support of the sample analyses. All relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients (r2) are acceptable. A second source ICV standard was analyzed after the IC, and all percent differences are acceptable (≤30%D). One CCV was analyzed in support of sample analysis and all percent differences (%Ds) are acceptable (<20%D), with the exception noted below.

Analyte	%D	Associated Sample	Qualifier Applied
CVOAMS7 01/29/2025 17:21			
2-Hexanone	22.0	All	UJ

The result for 2-hexanone in all samples are qualified as estimated (UJ) due to low response in the CCV.

2. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on sample MW-01_20250122. The MS/MSD are evaluated using control limit of 70-130%R, relative percent difference (RPD)≤30. All recoveries and RPDs are acceptable, with the following exceptions.

Analyte	MS %R	MSD %R	RPD
1,1,2-Trichloro-1,2,2-trifluorethane	57	67	a
1,1-Dichloroethene	66	a	a
2-Butanone	66	a	a

Cyclohexane	63	a	a

The results for 1,1,2-trichloro-1,2,2-trifluorethane, 1,1-dichloroethene, 2-butanone and cyclohexane in MW-01_20250122 are qualified as estimated (J-, UJ) due to low MS and/or MSD recoveries.

3. Field Duplicates

MW-0X_20250122 was submitted as a field duplicate of MW-02_20250122. Precision between paired samples is acceptable (RPD≤30) and is presented below. Results below the reporting limit are not evaluated.

Analyte	MW-02_20250122 (µg/L)	MW-0X_20250122 (µg/L)	RPD
Ethylbenzene	0.73 J	0.77 J	nc
Toluene	0.95 J	0.9 J	nc
m,p-Xylenes	0.7 J	0.72 J	nc
Benzene	3.3	3.3	0
o-Xylene	0.59 J	0.61 J	nc
Isopropylbenzene	0.35 J	ND	nc

nc-not calculated
ND-not detected

B. Semi-Volatile Organics (Full Scan Analysis)

1. Calibration

One initial calibration (IC) was performed in support of the sample analyses. All relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients (r2) are acceptable. A second source ICV standard was analyzed after the IC, and all percent differences are acceptable (≤30%D). One CCV was analyzed in support of sample analysis and all percent differences (%Ds) are acceptable (<20%D), with the exception noted below.

Analyte	%D	Associated Sample	Qualifier Applied
CBNAMS16 01/23/2025 19:55			
Benzaldehyde	-48.1	MW-02_20250122 MW-01_20250122 MW-0X_20250122 FB-01_20250122	UJ
CBNAMS16 01/28/2025 10:57			
Benzaldehyde	-46.1	MW-03_20250127	UJ

The percent differences represent a decrease in instrument sensitivity. The result for benzaldehyde in all samples is qualified as estimated (UJ) due to low response in the CCV.

2. Surrogates

The laboratory control limits are excessively low. Surrogates are evaluated using control limit of 50-130%R. All surrogate recoveries are acceptable with the following exceptions:

Sample	Surrogate	%R
MW-02_20250122	Terphenyl-$_{d14}$	24
	Phenol-$_{d5}$	42
MW-01_20250122	Terphenyl-$_{d14}$	21
	Phenol-$_{d5}$	38
MW-0X_20250122	2-Fluorophenol	24
	Phenol-$_{d5}$	40
FB-01_20250122	Terphenyl-$_{d14}$	35
	Phenol-$_{d5}$	34
MW-03_20250127	Terphenyl-$_{d14}$	30
	Phenol-$_{d5}$	36
	2-Fluorophenol	43

The results for all target acid extractable analytes *except* pentachlorophenol in MW-0X_20250122 and MW-03_20250127 are qualified as estimated (UJ) because two acid surrogates exhibited low recoveries.

The results for benzo[a]anthracene, 3,3'-dichlorobenzidine, chrysene, bis(2-ethylhexyl) phthalate, di-n-octyl phthalate, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, indeno[1,2,3-cd]pyrene, dibenz(a,h)anthracene and benzo[g,h,i]perylene in MW-02_20250122, MW-01_20250122, FB-01_20250122 and MW-03_20250127 are qualified as estimated (J-, UJ) because terphenyl-d1 4 exhibited low recovery.

3. Laboratory Control Sample (LCS) / LCS Duplicate (LCSD)

Two LCS/LCSD pairs were analyzed in support of sample analysis. The laboratory control limits are excessively low and, in several instances, low and wide. The LCS/LCSD are evaluated using control limit of 50-130%R, relative percent difference (RPD)$\leq$20. All recoveries and RPDs are acceptable, with the following exceptions. Where the recovery is high and the analytes are not detected in the associated samples, no qualification of results is warranted. These are not detailed below.

Analyte	LCS %R	LCSD %R	RPD	Associated Sample
LCS 460-1017771/2-A				
4-Nitrophenol	48	55	a	MW-02_20250122

Caprolactam	35	23	a	MW-01_20250122 MW-0X_20250122 FB-01_20250122
Phenol	39	42	a	
LCS 460-1018383/2-A				
4-Nitrophenol	48	a	a	MW-03_20250127
Caprolactam	26	33	a	
Phenol	34	41	a	

a=acceptable

The results for 4-nitrophenol, caprolactam and phenol in all samples are qualified as estimated (J-, UJ) due to low recovery in the LCS and/or LCSD.

4. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on sample MW-01_20250122. The MS/MSD are evaluated using control limit of 50-130%R, relative percent difference (RPD)≤30. All recoveries and RPDs are acceptable, with the exceptions noted below. Where the recovery is high and the analytes are not detected in the associated samples, no qualification of results is warranted. These are not detailed below.

Analyte	**MS %R**	**MSD %R**	**RPD**
4-Chloroaniline	49	47	a
2,4-Dimethylphenol	136	a	a
Caprolactam	35	34	a
Fluoranthene	138	a	a
Phenol	48	40	a

a=acceptable

The results for 4-chloroaniline, caprolactam and phenol in MW-01_20250122 are qualified as estimated (J-, UJ) due to low MS and/or MSD recovery. The results for 2,4-dimethylphenol and fluoranthene in MW-01_20250122 are qualified as estimated (J+) due to high MS and/or MSD recovery.

5. Field Duplicates

MW-0X_20250122 was submitted as a field duplicate of MW-02_20250122. Precision between paired samples is acceptable (RPD<30) and is presented below. Results below the reporting limit are not evaluated.

Analyte	MW-02_20250122 (µg/L)	MW-0X_20250122 (µg/L)	RPD
Anthracene	3.6 J	3.3 J	nc
Pyrene	3.5 J	3.6 J	nc
Dibenzofuran	11	13	17
Fluoranthene	6 J	5.9 J	nc
Acenaphthene	4.6 J	5.5 J	nc
Phenanthrene	38	40	5.1
Fluorene	13	14	7.5
Carbazole	7.7 J	10	26
Naphthalene	12	16	29
2-Methylnaphthalene	2.6 J	3 J	nc
Biphenyl (Diphenyl)	1.3 J	1.5 J	nc

nc-not calculated

C. Semi-Volatile Organics (Selected Ion Monitoring {SIM})

1. Field Duplicates

MW-0X_20250122 was submitted as a field duplicate of MW-02_20250122. Precision between paired samples is acceptable (RPD<30) and is presented below. Results below the reporting limit are not evaluated.

Analyte	MW-02_20250122 (µg/L)	MW-0X_20250122 (µg/L)	RPD
1,4-Dioxane	0.20 (U)	0.19 J	nc

nc-not calculated

D. PCBs

1. Field Duplicates

MW-0X_20250122 was submitted as a field duplicate of MW-02_20250122. Target Aroclors were not detected in either sample.

E. Pesticides

1. Field Duplicates

MW-0X_20250122 was submitted as a field duplicate of MW-02_20250122. Target pesticides analytes were not detected in either sample.

F. MA Extractable Petroleum Hydrocarbons

1. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on sample MW-01_20250122. The MS/MSD are evaluated using control limit of 50-130%R, relative percent difference (RPD)≤30. All recoveries and RPDs are acceptable, with the exceptions noted below.

Analyte	MS %R	MSD %R	RPD
Benzo[g,h,i]perylene	a	45	a
Benzo[b]fluoranthene	a	42	a
Benzo[a]pyrene	a	49	a

a=acceptable

The results for benzo[g,h,i]perylene, benzo[b]fluoranthene, and benzo[a]pyrene in MW-01_20250122 are qualified as estimated (UJ) due to low recoveries in the MSD.

2. Field Duplicates

MW-0X_20250122 was submitted as a field duplicate of MW-02_20250122. Precision between paired samples is acceptable (RPD<30) and is presented below. Results below the reporting limit are not evaluated.

Analyte	MW-02_20250122 (µg/L)	MW-0X_20250122 (µg/L)	RPD
Anthracene	5.6	4.2	29
Fluoranthene	6.7	5.2	25
Acenaphthylene	4.2	3.5	18
Acenaphthene	6.1	5.5	10
Phenanthrene	35	26	30
Fluorene	13	10	26
Naphthalene	16	16	0
2-Methylnaphthalene	3.4	2.9	16
C11-C22 AROMATICS	220	190	15
Extractable Petroleum Hydrocarbons C11-C22 Aromatics	120	110	9.0
Extractable Petroleum Hydrocarbons C9-C18 Aliphatics	29	29 (U)	nc

G. Total Petroleum Hydrocarbons

1. Laboratory Control Sample (LCS) / LCS Duplicate (LCSD)

One LCS/LCSD pair was prepared and analyzed in support of sample analysis. The laboratory control limits are excessively low and wide. The LCS/LCSD are evaluated using control limit of 50-130%R, relative percent difference (RPD)≤20. All recoveries and RPDs are acceptable, with the following exceptions.

Analyte	LCS %R	LCSD %R	RPD	Associated Sample
LCS 460-1018883/2-A				
ORO (C28-C44)	38	37	a	MW-03_20250127

The result for ORO (C28-C44) in MW-03_20250127 is qualified as estimated (UJ) due to low recovery in the LCS and LCSD.

H. Herbicides

1. Surrogates

The laboratory control limits are excessively low. Surrogates are evaluated using control limit of 50-130%R. The laboratory reported all surrogate recoveries in all samples from column 1; however, sample results in all samples are reported from column 2. The surrogate recoveries from column 2 were evaluated and are acceptable with the following exception:

Sample	Surrogate	%R
FB-01_20250122	2,4-Dichlorophenylacetic acid	33

The result for all target herbicides in FB-01_20250122 are qualified as estimated (UJ) due to low surrogate recovery. Samples MW-01_20250122 and MW-03_20250127 exhibited high surrogate recovery but target analytes were not detected in either sample and the high surrogate recoveries have no impact to sample results.

2. Laboratory Control Sample (LCS) / LCS Duplicate (LCSD)

Two LCS/LCSD pairs were prepared and analyzed in support of sample analysis. The LCS/LCSD are evaluated using control limit of 50-130%R, relative percent difference (RPD)≤20. All recoveries and RPDs are acceptable, with the following exceptions.

Analyte	LCS %R	LCSD %R	RPD	Associated Sample
LCS 460-1017861/2-A				
2,4-D	44	a	a	MW-02_20250122 MW-01_20250122 MW-0X_20250122 FB-01_20250122

The result for 2,4-D in MW-02_20250122, MW-01_20250122, and MW-0X_20250122 FB-01_20250122 are qualified as estimated (UJ) due to low recovery in the LCSD.

3. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on sample MW-01_20250122. The MS/MSD are evaluated using control limit of 50-130%R, relative percent difference (RPD)≤30. All recoveries and RPDs are acceptable, with the exceptions noted below.

Analyte	MS %R	MSD %R	RPD
2,4,5-T	38	130	111
2,4-D	29	109	117

The results for 2,4,5-T and 2,4-D in MW-01_20250122 are qualified as estimated (UJ) due to low MS recovery and high MS/MSD RPD.

4. Field Duplicates

MW-0X_20250122 was submitted as a field duplicate of MW-02_20250122. Target herbicides were not detected in either sample.

I. Metals including Mercury

1. Field Duplicates

MW-0X_20250122 was submitted as a field duplicate of MW-02_20250122. Precision between paired samples is acceptable (RPD<30) and is presented below. Results below the reporting limit are not evaluated.

Analyte	MW-02_20250122 (µg/L)	MW-0X_20250122 (µg/L)	RPD
Aluminum	25.7 J	24.8 J	nc
Iron	382	374	2.1

Magnesium	24900	24500	1.6
Manganese	142	142	0
Nickel	2.7 J	2.6 J	nc
Potassium	30100	28900	4.1
Sodium	201000	198000	1.5
Arsenic	2	2.3	14
Barium	53.1	51.6	2.9
Cobalt	1.4 J	1.4 J	nc
Vanadium	1.4 J	1.4 J	nc
Calcium	198000	196000	1.1

Cyanide

1. Field Duplicates

MW-0X_20250122 was submitted as a field duplicate of MW-02_20250122. Precision between paired samples is acceptable (RPD<30) and is presented below.

Analyte	MW-02_20250122 (µg/L)	MW-0X_20250122 (µg/L)	RPD
Cyanide	561	579	3.2

Hexavalent chromium

1. Field Duplicates

MW-0X_20250122 was submitted as a field duplicate of MW-02_20250122. Hexavalent chromium was not detected in either sample.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.
Sincerely,

Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Phone 732-549-3900 Fax 732-549-3679

Chain of Custody Record

NYC 222

eurofins

Client Information	Sampler: Mike Bates / Isabella Legovich	Lab PM: Flannery, Elizabeth J	Carrier Tracking No(s):	COC No: 460-190529-124698 1
Client Contact: ~~Michael Bates~~ Patrick Diggins	Phone	E-Mail: Elizabeth Flannery@et eurofinsus com	State of Origin: NY	Page: Page 1 of 1
Company: AKRF Inc	PWSID			Job #: 319158
Address: 440 Park Avenue South 7th Floor	Due Date Requested:			
City: New York	TAT Requested (days): Standard			
State Zip: NY, 10016	Compliance Project: Δ Yes Δ No			
Phone	PO #: 200112			
Email: ~~MBates@akrf.com~~ JDiggins@AKRF.com	WO #:			
Project Name: Bud North - 2-21 Malt Drive, Long Island	Project #: 46045611			
Site: Bud North	SSOW#:			

(N5) Analysis Requested (N6)

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)	MAEPH - MA EPH	8015D_DRO - DRO & ORO	624.1_PREC - 624 TCL VOCs	8260D - TCL VOCs	8270E - TCL BNAs	8270E_SIM_MS_ID - 1,4-Dioxane	8081B, 8082A	6020B, 7470A	9012B - Cyanide, Total	8151A - Standard Herbicide List - 3 cmpds	7196A, 7196A_CR3	624.1_PREC, 8260D	8015D_DRO, 8151A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	A	N	N	N	D	B	N	N	A	N		
MW-02_20250122	1/22/25	1033	G	Water			X	X		X	X	X	X	X	X	X	X		X	22	1
MW-01_20250122		1335		Water			X	X		X	X	X	X	X	X	X	X		X	66	2
MW-0X_20250122		1200		Water			X	X		X	X	X	X	X	X	X	X		X	22	3
FB-01_20250122		1205		Water			X	X		X	X	X	X	X	X	X	X		X	22	4
TB-01_20250122	-	-	-	Water						X										3	5
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

SHORT HOLD

Preservation Codes:
A - HCL
N - None
D - HNO3
B - NaOH

Other:

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: AHRF EQuS, CAT B, Heel Scooper

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Mike Bates	1/22/25 1500	AKRF			
			Received by:	1-22-25 - 16:00	EET
Relinquished by:	Date/Time: 1-22-25 18:00	Company: EET	Received by:	1/22/25 1800	EET

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
NO/CS ZR#9		3.5/3.7 - 4.2/4.4 - 5.7/5.9 - 5.3/5.5 - 5.5/5.7

Ver 10/10/2024

ATTACHMENT C

SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V65015.D

Lab ID: 460-319158-2 MS Client ID: MW-01_20250122 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	1.0 U	15.5	77	72-128	
1,1,2,2-Tetrachloroethane	20.0	1.0 U	23.7	118	63-139	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	1.0 U	11.4	57	65-142	*
1,1,2-Trichloroethane	20.0	1.0 U	19.8	99	74-125	
1,1-Dichloroethane	20.0	1.0 U	19.5	97	73-130	
1,1-Dichloroethene	20.0	1.0 U	13.3	66	68-133	*
1,2,3-Trichlorobenzene	20.0	1.0 U	22.5	113	55-150	
1,2,4-Trichlorobenzene	20.0	1.0 U	20.5	102	67-132	
1,2-Dibromo-3-Chloropropane	20.0	1.0 U	20.8	104	58-132	
1,2-Dichlorobenzene	20.0	1.0 U	19.0	95	80-120	
1,2-Dichloroethane	20.0	1.0 U	19.4	97	66-129	
1,2-Dichloropropane	20.0	1.0 U	20.4	102	72-128	
1,3-Dichlorobenzene	20.0	1.0 U	19.0	95	80-120	
1,4-Dichlorobenzene	20.0	1.0 U	18.1	90	80-120	
2-Butanone (MEK)	100	36	102	66	65-142	
2-Hexanone	100	5.0 U	111	111	72-134	
4-Methyl-2-pentanone (MIBK)	100	5.0 U	107	107	77-130	
Acetone	100	53	126	74	60-133	
Benzene	20.0	9.0	26.5	87	71-126	
Bromoform	20.0	1.0 U	18.2	91	58-128	
Bromomethane	20.0	1.0 U	14.6	73	33-150	
Carbon disulfide	20.0	2.9	17.6	73	35-150	
Carbon tetrachloride	20.0	1.0 U	14.6	73	65-131	
Chlorobenzene	20.0	1.0 U	17.1	85	80-120	
Chlorobromomethane	20.0	1.0 U	15.1	76	71-134	
Chlorodibromomethane	20.0	1.0 U	17.6	88	73-121	
Chloroethane	20.0	1.0 U	30.7	153	54-150	*
Chloroform	20.0	1.0 U	17.3	86	78-125	
Chloromethane	20.0	1.0 U	24.7	123	43-149	
cis-1,2-Dichloroethene	20.0	1.0 U	15.9	79	78-121	
cis-1,3-Dichloropropene	20.0	1.0 U	19.1	96	74-125	
Cyclohexane	20.0	1.0 U	12.7	63	64-142	*
Dichlorobromomethane	20.0	1.0 U	17.2	86	76-121	
Dichlorodifluoromethane	20.0	1.0 U	18.5	93	38-144	
Ethylbenzene	20.0	1.9	18.5	83	78-120	
Ethylene Dibromide	20.0	1.0 U	18.7	94	79-126	
Isopropylbenzene	20.0	1.0 U	17.4	87	79-125	
Methyl acetate	40.0	5.0 U	59.2	148	50-147	*
Methyl tert-butyl ether	20.0	1.0 U	19.0	95	72-131	
Methylcyclohexane	20.0	1.0 U	12.8	64	63-138	
Methylene Chloride	20.0	1.0 U	16.0	80	74-127	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V65016.D

Lab ID: 460-319158-2 MSD Client ID: MW-01_20250122 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	18.8	94	19	30	72-128	
1,1,2,2-Tetrachloroethane	20.0	28.4	142	18	30	63-139	*
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	13.4	67	17	30	65-142	
1,1,2-Trichloroethane	20.0	25.1	125	23	30	74-125	
1,1-Dichloroethane	20.0	23.1	116	17	30	73-130	
1,1-Dichloroethene	20.0	16.1	80	19	30	68-133	
1,2,3-Trichlorobenzene	20.0	28.2	141	22	30	55-150	
1,2,4-Trichlorobenzene	20.0	25.1	126	20	30	67-132	
1,2-Dibromo-3-Chloropropane	20.0	25.9	129	22	30	58-132	
1,2-Dichlorobenzene	20.0	22.6	113	17	30	80-120	
1,2-Dichloroethane	20.0	24.7	124	24	30	66-129	
1,2-Dichloropropane	20.0	25.4	127	22	30	72-128	
1,3-Dichlorobenzene	20.0	22.7	114	18	30	80-120	
1,4-Dichlorobenzene	20.0	22.7	113	22	30	80-120	
2-Butanone (MEK)	100	132	96	25	30	65-142	
2-Hexanone	100	148	148	28	30	72-134	*
4-Methyl-2-pentanone (MIBK)	100	138	138	25	30	77-130	*
Acetone	100	166	113	27	30	60-133	
Benzene	20.0	31.4	112	17	30	71-126	
Bromoform	20.0	23.1	115	24	30	58-128	
Bromomethane	20.0	20.2	101	32	30	33-150	*
Carbon disulfide	20.0	20.8	90	17	30	35-150	
Carbon tetrachloride	20.0	18.2	91	22	30	65-131	
Chlorobenzene	20.0	21.7	108	24	30	80-120	
Chlorobromomethane	20.0	18.2	91	19	30	71-134	
Chlorodibromomethane	20.0	22.0	110	23	30	73-121	
Chloroethane	20.0	22.3	111	32	30	54-150	*
Chloroform	20.0	21.7	108	23	30	78-125	
Chloromethane	20.0	29.5	147	18	30	43-149	
cis-1,2-Dichloroethene	20.0	18.4	92	15	30	78-121	
cis-1,3-Dichloropropene	20.0	24.1	121	23	30	74-125	
Cyclohexane	20.0	15.7	79	22	30	64-142	
Dichlorobromomethane	20.0	21.4	107	22	30	76-121	
Dichlorodifluoromethane	20.0	22.4	112	19	30	38-144	
Ethylbenzene	20.0	22.4	103	19	30	78-120	
Ethylene Dibromide	20.0	23.8	119	24	30	79-126	
Isopropylbenzene	20.0	21.9	110	23	30	79-125	
Methyl acetate	40.0	73.3	183	21	30	50-147	*
Methyl tert-butyl ether	20.0	23.5	118	21	30	72-131	
Methylcyclohexane	20.0	16.1	80	23	30	63-138	
Methylene Chloride	20.0	18.9	94	17	30	74-127	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Lab Sample ID: CCVIS 460-1018632/2 Calibration Date: 01/29/2025 17:21

Instrument ID: CVOAMS7 Calib Start Date: 11/21/2024 01:43

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 11/21/2024 04:23

Lab File ID: V65279.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
Tetrachloroethene	Ave	0.6681	0.6737	0.2000	20.2	20.0	0.8	20.0
1,3-Dichloropropane	Ave	0.998	0.9944		19.9	20.0	-0.3	20.0
2-Hexanone	Ave	2.602	3.176	0.0500	122	100	22.0	50.0
n-Butyl acetate	Lin2		0.9427		25.1	20.0	25.7*	20.0
Chlorodibromomethane	Ave	0.5566	0.5134	0.1000	18.4	20.0	-7.8	50.0
Ethylene Dibromide	Ave	0.5525	0.5207	0.1000	18.8	20.0	-5.8	20.0
Chlorobenzene	Ave	1.776	1.720	0.5000	19.4	20.0	-3.1	20.0
Ethylbenzene	Ave	0.9862	0.8993	0.1000	18.2	20.0	-8.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5796	0.5477		18.9	20.0	-5.5	20.0
m-Xylene & p-Xylene	Ave	1.242	1.178	0.1000	19.0	20.0	-5.2	20.0
o-Xylene	Ave	1.154	1.101	0.3000	19.1	20.0	-4.6	20.0
n-Butyl acrylate	QuaF		0.3795		17.0	20.0	-15.2	20.0
Styrene	Ave	1.788	1.687	0.3000	18.9	20.0	-5.7	20.0
Amyl acetate (mixed isomers)	Ave	1.607	1.811		22.5	20.0	12.7	20.0
Bromoform	Ave	0.3070	0.3301	0.1000	21.5	20.0	7.5	20.0
Isopropylbenzene	Ave	2.693	2.662	0.1000	19.8	20.0	-1.2	20.0
Bromobenzene	Ave	1.453	1.376		18.9	20.0	-5.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.499	1.356	0.3000	18.1	20.0	-9.5	20.0
N-Propylbenzene	Ave	6.829	6.449		18.9	20.0	-5.6	20.0
1,2,3-Trichloropropane	Ave	0.4389	0.4184		19.1	20.0	-4.7	20.0
trans-1,4-Dichloro-2-butene	Qua2		0.2394		16.7	20.0	-16.5	20.0
2-Chlorotoluene	Ave	4.754	4.375		18.4	20.0	-8.0	20.0
4-Ethyltoluene	Ave	5.734	5.333		18.6	20.0	-7.0	20.0
1,3,5-Trimethylbenzene	Ave	4.926	4.444		18.0	20.0	-9.8	20.0
4-Chlorotoluene	Ave	4.993	4.529		18.1	20.0	-9.3	20.0
Butyl Methacrylate	Qua2		1.091		15.3	20.0	-23.3*	20.0
tert-Butylbenzene	Ave	4.031	3.698		18.3	20.0	-8.3	20.0
1,2,4-Trimethylbenzene	Ave	4.882	4.475		18.3	20.0	-8.3	20.0
sec-Butylbenzene	Ave	5.764	5.273		18.3	20.0	-8.5	20.0
1,3-Dichlorobenzene	Ave	2.595	2.528	0.6000	19.5	20.0	-2.6	20.0
4-Isopropyltoluene	Ave	4.925	4.638		18.8	20.0	-5.8	20.0
1,4-Dichlorobenzene	Ave	2.651	2.486	0.5000	18.8	20.0	-6.2	20.0
1,2,3-Trimethylbenzene	Ave	4.977	4.596		18.5	20.0	-7.7	20.0
Benzyl chloride	Qua2		1.820		15.1	20.0	-24.7	50.0
Indan	Ave	4.811	4.579		19.0	20.0	-4.8	20.0
p-Diethylbenzene	Ave	2.767	2.656		19.2	20.0	-4.0	20.0
n-Butylbenzene	Ave	2.390	2.260		18.9	20.0	-5.5	20.0
1,2-Dichlorobenzene	Ave	2.417	2.426	0.4000	20.1	20.0	0.4	20.0
1,2,4,5-Tetramethylbenzene	Ave	3.935	3.417		17.4	20.0	-13.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2688	0.2267	0.0500	16.9	20.0	-15.7	50.0
1,3,5-Trichlorobenzene	Ave	1.504	1.630		21.7	20.0	8.4	20.0

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtxi-5Sil M ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHL #
MW-02_20250122	460-319158-1	62	42	101	98	97	24
MW-01_20250122	460-319158-2	59	38	100	99	98	21
MW-0X_20250122	460-319158-3	61	40	101	99	101	24
FB-01_20250122	460-319158-4	52	34	93	90	87	35
MW-03_20250127	460-319369-1	43	36	81	73	90	30
	MB 460-1017771/1-A	54	36	91	89	88	30
	MB 460-1018383/1-A	46	29	97	89	96	85
	LCS 460-1017771/2-A	54	36	110	111	111	84
	LCS 460-1018383/2-A	44	31	84	80	95	65
	LCSD 460-1017771/3-A	55	38	96	96	97	70
	LCSD 460-1018383/3-A	54	37	102	98	114	78
MW-01_20250122 MS	460-319158-2 MS	61	41	106	106	105	51
MW-01_20250122 MSD	460-319158-2 MSD	53	34	103	99	97	41

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	16-80
PHL = Phenol-d5 (Surr)	10-56
NBZ = Nitrobenzene-d5 (Surr)	51-145
FBP = 2-Fluorobiphenyl	46-139
TBP = 2,4,6-Tribromophenol (Surr)	37-150
TPHL = Terphenyl-d14 (Surr)	13-159

Column to be used to flag recovery values

FORM II 8270E

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A38359.D

Lab ID: LCS 460-1017771/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	80.0	91.6	115	52-129	
1,2,4,5-Tetrachlorobenzene	80.0	90.7	113	40-136	
2,2'-oxybis[1-chloropropane]	80.0	83.8	105	47-133	
2,3,4,6-Tetrachlorophenol	80.0	91.9	115	63-131	
2,4,5-Trichlorophenol	80.0	89.9	112	63-124	
2,4,6-Trichlorophenol	80.0	90.4	113	66-131	
2,4-Dichlorophenol	80.0	82.8	104	60-120	
2,4-Dimethylphenol	80.0	93.0	116	37-120	
2,4-Dinitrophenol	160	165	103	50-148	
2,4-Dinitrotoluene	80.0	97.0	121	71-142	
2,6-Dinitrotoluene	80.0	93.9	117	71-136	
2-Chloronaphthalene	80.0	89.4	112	50-129	
2-Chlorophenol	80.0	71.3	89	49-120	
2-Methylnaphthalene	80.0	77.8	97	42-134	
2-Methylphenol	80.0	64.3	80	35-120	
2-Nitroaniline	80.0	89.0	111	57-134	
2-Nitrophenol	80.0	85.9	107	62-124	
3,3'-Dichlorobenzidine	80.0	80.5	101	55-145	
3-Nitroaniline	80.0	71.5	89	51-120	
4,6-Dinitro-2-methylphenol	160	183	115	65-145	
4-Bromophenyl phenyl ether	80.0	90.6	113	59-132	
4-Chloro-3-methylphenol	80.0	77.1	96	54-120	
4-Chloroaniline	80.0	66.0	82	43-120	
4-Chlorophenyl phenyl ether	80.0	91.7	115	65-127	
4-Methylphenol	80.0	55.8	70	28-120	
4-Nitroaniline	80.0	88.7	111	57-135	
4-Nitrophenol	160	76.9	48	10-120	
Acenaphthene	80.0	91.0	114	62-127	
Acenaphthylene	80.0	96.2	120	58-122	
Acetophenone	80.0	86.4	108	65-125	
Anthracene	80.0	91.9	115	67-127	
Atrazine	40.0	76.4	191	13-150	*
Benzaldehyde	40.0	65.0	163	10-150	*
Benzo[a]anthracene	80.0	89.0	111	71-131	
Benzo[a]pyrene	80.0	107	134	75-148	
Benzo[b]fluoranthene	80.0	94.1	118	70-140	
Benzo[g,h,i]perylene	80.0	103	129	52-143	
Benzo[k]fluoranthene	80.0	101	127	71-140	
Bis(2-chloroethoxy)methane	80.0	88.6	111	63-122	
Bis(2-chloroethyl)ether	80.0	85.6	107	61-125	
Bis(2-ethylhexyl) phthalate	80.0	93.5	117	65-144	
Butyl benzyl phthalate	80.0	89.1	111	67-141	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A38359.D

Lab ID: LCS 460-1017771/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Caprolactam	40.0	13.8	35	10-120	
Carbazole	80.0	91.4	114	68-132	
Chrysene	80.0	91.3	114	70-132	
Dibenz(a,h)anthracene	80.0	99.2	124	53-150	
Dibenzofuran	80.0	90.7	113	64-125	
Diethyl phthalate	80.0	88.0	110	67-131	
Dimethyl phthalate	80.0	91.1	114	67-129	
Di-n-butyl phthalate	80.0	88.1	110	71-139	
Di-n-octyl phthalate	80.0	92.9	116	51-150	
Fluoranthene	80.0	92.8	116	69-137	
Fluorene	80.0	94.0	117	67-125	
Hexachlorobenzene	80.0	90.9	114	62-135	
Hexachlorobutadiene	80.0	88.7	111	10-147	
Hexachlorocyclopentadiene	80.0	116	146	10-135	*
Hexachloroethane	80.0	86.5	108	10-138	
Indeno[1,2,3-cd]pyrene	80.0	99.5	124	59-150	
Isophorone	80.0	91.9	115	65-128	
Naphthalene	80.0	88.3	110	39-126	
Nitrobenzene	80.0	91.0	114	66-127	
N-Nitrosodi-n-propylamine	80.0	89.4	112	63-133	
N-Nitrosodiphenylamine	80.0	90.3	113	66-128	
Pentachlorophenol	160	180	112	60-140	
Phenanthrene	80.0	90.1	113	68-126	
Phenol	80.0	31.0	39	10-80	
Pyrene	80.0	87.8	110	60-137	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A38435.D

Lab ID: LCS 460-1018383/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	80.0	69.4	87	52-129	
1,2,4,5-Tetrachlorobenzene	80.0	67.0	84	40-136	
2,2'-oxybis[1-chloropropane]	80.0	68.2	85	47-133	
2,3,4,6-Tetrachlorophenol	80.0	75.0	94	63-131	
2,4,5-Trichlorophenol	80.0	69.5	87	63-124	
2,4,6-Trichlorophenol	80.0	70.4	88	66-131	
2,4-Dichlorophenol	80.0	66.9	84	60-120	
2,4-Dimethylphenol	80.0	75.4	94	37-120	
2,4-Dinitrophenol	160	145	90	50-148	
2,4-Dinitrotoluene	80.0	83.1	104	71-142	
2,6-Dinitrotoluene	80.0	78.9	99	71-136	
2-Chloronaphthalene	80.0	67.3	84	50-129	
2-Chlorophenol	80.0	58.6	73	49-120	
2-Methylnaphthalene	80.0	63.7	80	42-134	
2-Methylphenol	80.0	53.3	67	35-120	
2-Nitroaniline	80.0	72.7	91	57-134	
2-Nitrophenol	80.0	65.7	82	62-124	
3,3'-Dichlorobenzidine	80.0	63.0	79	55-145	
3-Nitroaniline	80.0	62.8	79	51-120	
4,6-Dinitro-2-methylphenol	160	144	90	65-145	
4-Bromophenyl phenyl ether	80.0	68.8	86	59-132	
4-Chloro-3-methylphenol	80.0	68.3	85	54-120	
4-Chloroaniline	80.0	62.4	78	43-120	
4-Chlorophenyl phenyl ether	80.0	75.1	94	65-127	
4-Methylphenol	80.0	49.0	61	28-120	
4-Nitroaniline	80.0	77.3	97	57-135	
4-Nitrophenol	160	77.0	48	10-120	
Acenaphthene	80.0	70.5	88	62-127	
Acenaphthylene	80.0	74.8	94	58-122	
Acetophenone	80.0	73.4	92	65-125	
Anthracene	80.0	72.1	90	67-127	
Atrazine	40.0	50.8	127	13-150	
Benzaldehyde	40.0	43.4	109	10-150	
Benzo[a]anthracene	80.0	71.0	89	71-131	
Benzo[a]pyrene	80.0	82.6	103	75-148	
Benzo[b]fluoranthene	80.0	75.7	95	70-140	
Benzo[g,h,i]perylene	80.0	69.2	87	52-143	
Benzo[k]fluoranthene	80.0	78.7	98	71-140	
Bis(2-chloroethoxy)methane	80.0	71.4	89	63-122	
Bis(2-chloroethyl)ether	80.0	68.8	86	61-125	
Bis(2-ethylhexyl) phthalate	80.0	79.8	100	65-144	
Butyl benzyl phthalate	80.0	74.2	93	67-141	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A38435.D

Lab ID: LCS 460-1018383/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Caprolactam	40.0	10.5	26	10-120	
Carbazole	80.0	74.2	93	68-132	
Chrysene	80.0	70.3	88	70-132	
Dibenz(a,h)anthracene	80.0	68.0	85	53-150	
Dibenzofuran	80.0	72.1	90	64-125	
Diethyl phthalate	80.0	77.3	97	67-131	
Dimethyl phthalate	80.0	76.2	95	67-129	
Di-n-butyl phthalate	80.0	75.6	94	71-139	
Di-n-octyl phthalate	80.0	83.3	104	51-150	
Fluoranthene	80.0	78.0	97	69-137	
Fluorene	80.0	76.9	96	67-125	
Hexachlorobenzene	80.0	71.0	89	62-135	
Hexachlorobutadiene	80.0	66.0	82	10-147	
Hexachlorocyclopentadiene	80.0	87.1	109	10-135	
Hexachloroethane	80.0	62.8	78	10-138	
Indeno[1,2,3-cd]pyrene	80.0	68.9	86	59-150	
Isophorone	80.0	75.1	94	65-128	
Naphthalene	80.0	67.4	84	39-126	
Nitrobenzene	80.0	74.9	94	66-127	
N-Nitrosodi-n-propylamine	80.0	76.7	96	63-133	
N-Nitrosodiphenylamine	80.0	68.1	85	66-128	
Pentachlorophenol	160	147	92	60-140	
Phenanthrene	80.0	69.9	87	68-126	
Phenol	80.0	27.0	34	10-80	
Pyrene	80.0	69.0	86	60-137	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A38360.D

Lab ID: LCSD 460-1017771/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Caprolactam	40.0	11.0	27	23	30	10-120	
Carbazole	80.0	82.9	104	10	30	68-132	
Chrysene	80.0	81.2	101	12	30	70-132	
Dibenz(a,h)anthracene	80.0	90.1	113	10	30	53-150	
Dibenzofuran	80.0	81.0	101	11	30	64-125	
Diethyl phthalate	80.0	78.7	98	11	30	67-131	
Dimethyl phthalate	80.0	82.8	103	10	30	67-129	
Di-n-butyl phthalate	80.0	79.5	99	10	30	71-139	
Di-n-octyl phthalate	80.0	84.3	105	10	30	51-150	
Fluoranthene	80.0	84.9	106	9	30	69-137	
Fluorene	80.0	84.8	106	10	30	67-125	
Hexachlorobenzene	80.0	82.8	104	9	30	62-135	
Hexachlorobutadiene	80.0	80.1	100	10	30	10-147	
Hexachlorocyclopentadiene	80.0	106	132	9	30	10-135	
Hexachloroethane	80.0	80.4	101	7	30	10-138	
Indeno[1,2,3-cd]pyrene	80.0	91.0	114	9	30	59-150	
Isophorone	80.0	82.3	103	11	30	65-128	
Naphthalene	80.0	79.8	100	10	30	39-126	
Nitrobenzene	80.0	80.4	101	12	30	66-127	
N-Nitrosodi-n-propylamine	80.0	80.9	101	10	30	63-133	
N-Nitrosodiphenylamine	80.0	84.4	105	7	30	66-128	
Pentachlorophenol	160	168	105	7	30	60-140	
Phenanthrene	80.0	81.6	102	10	30	68-126	
Phenol	80.0	33.8	42	9	30	10-80	
Pyrene	80.0	80.7	101	8	30	60-137	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A38436.D

Lab ID: LCSD 460-1018383/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Caprolactam	40.0	13.2	33	23	30	10-120	
Carbazole	80.0	91.0	114	20	30	68-132	
Chrysene	80.0	83.2	104	17	30	70-132	
Dibenz(a,h)anthracene	80.0	85.7	107	23	30	53-150	
Dibenzofuran	80.0	87.3	109	19	30	64-125	
Diethyl phthalate	80.0	94.2	118	20	30	67-131	
Dimethyl phthalate	80.0	92.3	115	19	30	67-129	
Di-n-butyl phthalate	80.0	91.7	115	19	30	71-139	
Di-n-octyl phthalate	80.0	103	129	21	30	51-150	
Fluoranthene	80.0	95.6	119	20	30	69-137	
Fluorene	80.0	93.0	116	19	30	67-125	
Hexachlorobenzene	80.0	86.0	107	19	30	62-135	
Hexachlorobutadiene	80.0	82.9	104	23	30	10-147	
Hexachlorocyclopentadiene	80.0	107	133	20	30	10-135	
Hexachloroethane	80.0	77.7	97	21	30	10-138	
Indeno[1,2,3-cd]pyrene	80.0	85.6	107	22	30	59-150	
Isophorone	80.0	92.5	116	21	30	65-128	
Naphthalene	80.0	83.0	104	21	30	39-126	
Nitrobenzene	80.0	89.7	112	18	30	66-127	
N-Nitrosodi-n-propylamine	80.0	92.9	116	19	30	63-133	
N-Nitrosodiphenylamine	80.0	83.6	105	21	30	66-128	
Pentachlorophenol	160	180	112	20	30	60-140	
Phenanthrene	80.0	85.3	107	20	30	68-126	
Phenol	80.0	33.0	41	20	30	10-80	
Pyrene	80.0	83.7	105	19	30	60-137	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A38369.D

Lab ID: 460-319158-2 MS Client ID: MW-01_20250122 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1'-Biphenyl	40.0	10 U	50.6	126	52-129	
1,2,4,5-Tetrachlorobenzene	40.0	10 U	47.8	119	40-136	
2,2'-oxybis[1-chloropropane]	40.0	10 U	47.5	119	47-133	
2,3,4,6-Tetrachlorophenol	40.0	10 U	49.2	123	63-131	
2,4,5-Trichlorophenol	40.0	10 U	49.3	123	63-124	
2,4,6-Trichlorophenol	40.0	10 U	50.3	126	66-131	
2,4-Dichlorophenol	40.0	10 U	45.3	113	60-120	
2,4-Dimethylphenol	40.0	0.72 J	55.0	136	37-120	*
2,4-Dinitrophenol	80.0	40 U	86.5	108	50-148	
2,4-Dinitrotoluene	40.0	10 U	53.0	133	71-142	
2,6-Dinitrotoluene	40.0	2.0 U	51.6	129	71-136	
2-Chloronaphthalene	40.0	10 U	49.0	123	50-129	
2-Chlorophenol	40.0	10 U	40.7	102	49-120	
2-Methylnaphthalene	40.0	2.2 J	45.0	107	42-134	
2-Methylphenol	40.0	1.0 J	39.9	97	35-120	
2-Nitroaniline	40.0	10 U	48.7	122	57-134	
2-Nitrophenol	40.0	10 U	47.6	119	62-124	
3,3'-Dichlorobenzidine	40.0	10 U	28.0	70	55-145	
3-Nitroaniline	40.0	10 U	26.8	67	51-120	
4,6-Dinitro-2-methylphenol	80.0	20 U	101	127	65-145	
4-Bromophenyl phenyl ether	40.0	10 U	49.2	123	59-132	
4-Chloro-3-methylphenol	40.0	10 U	44.2	111	54-120	
4-Chloroaniline	40.0	10 U	19.7	49	43-120	
4-Chlorophenyl phenyl ether	40.0	10 U	49.2	123	65-127	
4-Methylphenol	40.0	0.83 J	35.5	87	28-120	
4-Nitroaniline	40.0	10 U	44.6	111	57-135	
4-Nitrophenol	80.0	20 U	52.1	65	10-120	
Acenaphthene	40.0	5.6 J	56.2	126	62-127	
Acenaphthylene	40.0	10 U	51.7	129	58-122	*
Acetophenone	40.0	10 U	49.1	123	65-125	
Anthracene	40.0	2.8 J	52.2	124	67-127	
Atrazine	40.0	2.0 U	66.7	167	13-150	E *
Benzaldehyde	40.0	10 U	57.9	145	10-150	E
Benzo[a]anthracene	40.0	1.0 U	49.9	125	71-131	
Benzo[a]pyrene	40.0	1.0 U	56.2	141	75-148	
Benzo[b]fluoranthene	40.0	2.0 U	52.9	132	70-140	
Benzo[g,h,i]perylene	40.0	10 U	54.8	137	52-143	
Benzo[k]fluoranthene	40.0	1.0 U	51.2	128	71-140	
Bis(2-chloroethoxy)methane	40.0	10 U	48.7	122	63-122	
Bis(2-chloroethyl)ether	40.0	1.0 U	47.4	118	61-125	
Bis(2-ethylhexyl) phthalate	40.0	2.0 U	53.6	134	65-144	
Butyl benzyl phthalate	40.0	10 U	53.0	133	67-141	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A38369.D

Lab ID: 460-319158-2 MS Client ID: MW-01_20250122 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Caprolactam	40.0	10 U	14.2	35	10-120	
Carbazole	40.0	7.2 J	58.9	129	68-132	
Chrysene	40.0	2.0 U	50.1	125	70-132	
Dibenz(a,h)anthracene	40.0	1.0 U	51.5	129	53-150	
Dibenzofuran	40.0	5.4 J	54.8	124	64-125	
Diethyl phthalate	40.0	10 U	48.8	122	67-131	
Dimethyl phthalate	40.0	10 U	49.8	125	67-129	
Di-n-butyl phthalate	40.0	10 U	50.7	127	71-139	
Di-n-octyl phthalate	40.0	10 U	54.6	136	51-150	
Fluoranthene	40.0	4.2 J	59.4	138	69-137	*
Fluorene	40.0	8.5 J	60.3	130	67-125	*
Hexachlorobenzene	40.0	1.0 U	49.6	124	62-135	
Hexachlorobutadiene	40.0	1.0 U	47.1	118	10-147	
Hexachlorocyclopentadiene	40.0	10 U	56.6	141	10-135	*
Hexachloroethane	40.0	2.0 U	46.9	117	10-138	
Indeno[1,2,3-cd]pyrene	40.0	2.0 U	53.3	133	59-150	
Isophorone	40.0	10 U	50.5	126	65-128	
Naphthalene	40.0	21	75.9	137	39-126	*
Nitrobenzene	40.0	1.0 U	50.4	126	66-127	
N-Nitrosodi-n-propylamine	40.0	1.0 U	50.1	125	63-133	
N-Nitrosodiphenylamine	40.0	10 U	49.9	125	66-128	
Pentachlorophenol	80.0	20 U	97.7	122	60-140	
Phenanthrene	40.0	18	70.9	133	68-126	*
Phenol	40.0	0.94 J	20.2	48	10-80	
Pyrene	40.0	2.8 J	53.0	125	60-137	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A38370.D

Lab ID: 460-319158-2 MSD Client ID: MW-01_20250122 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1'-Biphenyl	40.0	46.1	115	9	30	52-129	
1,2,4,5-Tetrachlorobenzene	40.0	42.3	106	12	30	40-136	
2,2'-oxybis[1-chloropropane]	40.0	44.4	111	7	30	47-133	
2,3,4,6-Tetrachlorophenol	40.0	45.2	113	8	30	63-131	
2,4,5-Trichlorophenol	40.0	44.5	111	10	30	63-124	
2,4,6-Trichlorophenol	40.0	46.4	116	8	30	66-131	
2,4-Dichlorophenol	40.0	41.6	104	9	30	60-120	
2,4-Dimethylphenol	40.0	49.3	121	11	30	37-120	*
2,4-Dinitrophenol	80.0	80.2	100	8	30	50-148	
2,4-Dinitrotoluene	40.0	49.8	125	6	30	71-142	
2,6-Dinitrotoluene	40.0	47.7	119	8	30	71-136	
2-Chloronaphthalene	40.0	44.9	112	9	30	50-129	
2-Chlorophenol	40.0	37.3	93	9	30	49-120	
2-Methylnaphthalene	40.0	41.9	99	7	30	42-134	
2-Methylphenol	40.0	33.8	82	17	30	35-120	
2-Nitroaniline	40.0	46.2	115	5	30	57-134	
2-Nitrophenol	40.0	43.7	109	9	30	62-124	
3,3'-Dichlorobenzidine	40.0	24.7	62	12	30	55-145	
3-Nitroaniline	40.0	23.3	58	14	30	51-120	
4,6-Dinitro-2-methylphenol	80.0	95.2	119	6	30	65-145	
4-Bromophenyl phenyl ether	40.0	44.4	111	10	30	59-132	
4-Chloro-3-methylphenol	40.0	41.2	103	7	30	54-120	
4-Chloroaniline	40.0	18.9	47	4	30	43-120	
4-Chlorophenyl phenyl ether	40.0	45.3	113	8	30	65-127	
4-Methylphenol	40.0	30.5	74	15	30	28-120	
4-Nitroaniline	40.0	40.8	102	9	30	57-135	
4-Nitrophenol	80.0	41.0	51	24	30	10-120	
Acenaphthene	40.0	50.6	112	11	30	62-127	
Acenaphthylene	40.0	47.0	117	10	30	58-122	
Acetophenone	40.0	46.1	115	6	30	65-125	
Anthracene	40.0	48.0	113	8	30	67-127	
Atrazine	40.0	66.6	167	0	30	13-150	E *
Benzaldehyde	40.0	63.4	158	9	30	10-150	E *
Benzo[a]anthracene	40.0	45.7	114	9	30	71-131	
Benzo[a]pyrene	40.0	52.2	130	7	30	75-148	
Benzo[b]fluoranthene	40.0	48.7	122	8	30	70-140	
Benzo[g,h,i]perylene	40.0	49.5	124	10	30	52-143	
Benzo[k]fluoranthene	40.0	47.3	118	8	30	71-140	
Bis(2-chloroethoxy)methane	40.0	45.4	114	7	30	63-122	
Bis(2-chloroethyl)ether	40.0	44.1	110	7	30	61-125	
Bis(2-ethylhexyl) phthalate	40.0	49.6	124	8	30	65-144	
Butyl benzyl phthalate	40.0	48.1	120	10	30	67-141	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A38370.D

Lab ID: 460-319158-2 MSD Client ID: MW-01_20250122 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Caprolactam	40.0	13.4	34	5	30	10-120	
Carbazole	40.0	53.5	116	10	30	68-132	
Chrysene	40.0	45.8	114	9	30	70-132	
Dibenz(a,h)anthracene	40.0	46.1	115	11	30	53-150	
Dibenzofuran	40.0	50.3	112	9	30	64-125	
Diethyl phthalate	40.0	44.9	112	8	30	67-131	
Dimethyl phthalate	40.0	46.2	115	8	30	67-129	
Di-n-butyl phthalate	40.0	46.1	115	9	30	71-139	
Di-n-octyl phthalate	40.0	49.1	123	11	30	51-150	
Fluoranthene	40.0	53.0	122	11	30	69-137	
Fluorene	40.0	55.0	116	9	30	67-125	
Hexachlorobenzene	40.0	44.8	112	10	30	62-135	
Hexachlorobutadiene	40.0	42.9	107	9	30	10-147	
Hexachlorocyclopentadiene	40.0	51.7	129	9	30	10-135	
Hexachloroethane	40.0	43.4	108	8	30	10-138	
Indeno[1,2,3-cd]pyrene	40.0	48.4	121	10	30	59-150	
Isophorone	40.0	47.5	119	6	30	65-128	
Naphthalene	40.0	64.8	109	16	30	39-126	
Nitrobenzene	40.0	46.8	117	7	30	66-127	
N-Nitrosodi-n-propylamine	40.0	46.9	117	7	30	63-133	
N-Nitrosodiphenylamine	40.0	46.0	115	8	30	66-128	
Pentachlorophenol	80.0	91.0	114	7	30	60-140	
Phenanthrene	40.0	61.4	109	14	30	68-126	
Phenol	40.0	16.7	40	19	30	10-80	
Pyrene	40.0	48.0	113	10	30	60-137	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison | Job No.: 460-319158-1

SDG No.:

Lab Sample ID: CCVIS 460-1017857/2 | Calibration Date: 01/23/2025 19:55

Instrument ID: CBNAMS16 | Calib Start Date: 01/23/2025 08:45

GC Column: Rtxi-5Sil MS ID: 0.25(mm) | Calib End Date: 01/23/2025 11:53

Lab File ID: A38357.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5642	0.5265		9330	10000	-6.7	20.0
N-Nitrosodimethylamine	Ave	0.8040	0.8098		10100	10000	0.7	20.0
Pyridine	Ave	1.145	1.153		20100	20000	0.7	20.0
Benzaldehyde	Ave	1.050	0.5447	0.0100	2070	4000	-48.1*	20.0
Aniline	Ave	1.790	1.778		9940	10000	-0.6	20.0
Phenol	Ave	1.754	1.747	0.8000	9960	10000	-0.4	20.0
Bis(2-chloroethyl)ether	Ave	1.351	1.309	0.7000	9690	10000	-3.1	20.0
2-Chlorophenol	Ave	1.384	1.382	0.8000	9990	10000	-0.1	20.0
n-Decane	Ave	1.280	1.217		9510	10000	-4.9	20.0
1,3-Dichlorobenzene	Ave	1.511	1.481		9800	10000	-2.0	20.0
1,4-Dichlorobenzene	Ave	1.543	1.513		9810	10000	-1.9	20.0
1,2-Dichlorobenzene	Ave	1.451	1.410		9720	10000	-2.8	20.0
Benzyl alcohol	Ave	0.8255	0.7856		9520	10000	-4.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.649	1.582	0.0100	9590	10000	-4.1	20.0
2-Methylphenol	Ave	1.165	1.140	0.7000	9790	10000	-2.1	20.0
N-Methylaniline	Ave	1.871	1.930		10300	10000	3.2	20.0
Acetophenone	Ave	1.807	1.781	0.0100	9860	10000	-1.4	20.0
N-Nitrosodi-n-propylamine	Ave	0.8771	0.8667	0.5000	9880	10000	-1.2	20.0
3 & 4 Methylphenol	Ave	1.240	1.213		9780	10000	-2.2	20.0
4-Methylphenol	Ave	1.235	1.213	0.6000	9820	10000	-1.8	20.0
Hexachloroethane	Ave	0.5513	0.5544	0.3000	10100	10000	0.6	20.0
Nitrobenzene	Ave	0.6503	0.6791	0.2000	10400	10000	4.4	20.0
n,n'-Dimethylaniline	Ave	2.014	1.987		9870	10000	-1.3	20.0
Isophorone	Ave	0.5922	0.6029	0.4000	10200	10000	1.8	20.0
2-Nitrophenol	Ave	0.1888	0.1955	0.1000	10400	10000	3.5	20.0
2,4-Dimethylphenol	Ave	0.2452	0.2486	0.2000	10100	10000	1.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.4118	0.4141	0.3000	10100	10000	0.5	20.0
Benzoic acid	Lin2		0.1804		10200	10000	1.7	20.0
2,4-Dichlorophenol	Ave	0.2711	0.2772	0.2000	10200	10000	2.3	20.0
1,2,4-Trichlorobenzene	Ave	0.3084	0.3155		10200	10000	2.3	20.0
Naphthalene	Ave	1.035	1.040	0.7000	10000	10000	0.5	20.0
4-Chloroaniline	Ave	0.3814	0.4038	0.0100	10600	10000	5.9	20.0
Hexachlorobutadiene	Ave	0.1657	0.1703	0.0100	10300	10000	2.8	20.0
Caprolactam	Lin2		0.1152	0.0100	4080	4000	1.9	20.0
4-Chloro-3-methylphenol	Ave	0.2387	0.2422	0.2000	10100	10000	1.5	20.0
2-Methylnaphthalene	Ave	0.6482	0.6500	0.4000	10000	10000	0.3	20.0
1-Methylnaphthalene	Ave	0.5859	0.5880		10000	10000	0.4	20.0
Hexachlorocyclopentadiene	Ave	0.3622	0.3240	0.0500	8950	10000	-10.5	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6131	0.6266	0.0100	10200	10000	2.2	20.0
2-tertbutyl-4-methylphenol	Ave	0.3514	0.3710		10600	10000	5.6	20.0
2,4,6-Trichlorophenol	Ave	0.3787	0.4035	0.2000	10700	10000	6.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison | Job No.: 460-319158-1

SDG No.:

Lab Sample ID: CCVIS 460-1018391/2 | Calibration Date: 01/28/2025 10:57

Instrument ID: CBNAMS16 | Calib Start Date: 01/23/2025 08:45

GC Column: Rtxi-5Sil MS ID: 0.25(mm) | Calib End Date: 01/23/2025 11:53

Lab File ID: A38433.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5642	0.5136		9100	10000	-9.0	20.0
N-Nitrosodimethylamine	Ave	0.8040	0.8027		9980	10000	-0.2	20.0
Pyridine	Ave	1.145	1.148		20100	20000	0.3	20.0
Benzaldehyde	Ave	1.050	0.5659	0.0100	2160	4000	-46.1*	20.0
Aniline	Ave	1.790	1.810		10100	10000	1.2	20.0
Phenol	Ave	1.754	1.784	0.8000	10200	10000	1.7	20.0
Bis(2-chloroethyl)ether	Ave	1.351	1.342	0.7000	9930	10000	-0.7	20.0
2-Chlorophenol	Ave	1.384	1.388	0.8000	10000	10000	0.3	20.0
n-Decane	Ave	1.280	1.235		9650	10000	-3.5	20.0
1,3-Dichlorobenzene	Ave	1.511	1.486		9830	10000	-1.7	20.0
1,4-Dichlorobenzene	Ave	1.543	1.529		9910	10000	-0.9	20.0
1,2-Dichlorobenzene	Ave	1.451	1.421		9800	10000	-2.0	20.0
Benzyl alcohol	Ave	0.8255	0.8487		10300	10000	2.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.649	1.618	0.0100	9810	10000	-1.9	20.0
2-Methylphenol	Ave	1.165	1.176	0.7000	10100	10000	1.0	20.0
N-Methylaniline	Ave	1.871	2.010		10700	10000	7.4	20.0
Acetophenone	Ave	1.807	1.885	0.0100	10400	10000	4.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.8771	0.9382	0.5000	10700	10000	7.0	20.0
3 & 4 Methylphenol	Ave	1.240	1.294		10400	10000	4.3	20.0
4-Methylphenol	Ave	1.235	1.276	0.6000	10300	10000	3.3	20.0
Hexachloroethane	Ave	0.5513	0.5621	0.3000	10200	10000	2.0	20.0
Nitrobenzene	Ave	0.6503	0.6949	0.2000	10700	10000	6.9	20.0
n,n'-Dimethylaniline	Ave	2.014	2.055		10200	10000	2.1	20.0
Isophorone	Ave	0.5922	0.6230	0.4000	10500	10000	5.2	20.0
2-Nitrophenol	Ave	0.1888	0.1936	0.1000	10300	10000	2.5	20.0
2,4-Dimethylphenol	Ave	0.2452	0.2455	0.2000	10000	10000	0.2	20.0
Bis(2-chloroethoxy)methane	Ave	0.4118	0.4143	0.3000	10100	10000	0.6	20.0
2,4-Dichlorophenol	Ave	0.2711	0.2829	0.2000	10400	10000	4.4	20.0
Benzoic acid	Lin2		0.1920		10800	10000	7.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3084	0.3073		9960	10000	-0.4	20.0
Naphthalene	Ave	1.035	1.023	0.7000	9890	10000	-1.1	20.0
4-Chloroaniline	Ave	0.3814	0.4135	0.0100	10800	10000	8.4	20.0
Hexachlorobutadiene	Ave	0.1657	0.1657	0.0100	10000	10000	0.0	20.0
Caprolactam	Lin2		0.1355	0.0100	4780	4000	19.5	20.0
4-Chloro-3-methylphenol	Ave	0.2387	0.2568	0.2000	10800	10000	7.6	20.0
2-Methylnaphthalene	Ave	0.6482	0.6681	0.4000	10300	10000	3.1	20.0
1-Methylnaphthalene	Ave	0.5859	0.6103		10400	10000	4.2	20.0
Hexachlorocyclopentadiene	Ave	0.3622	0.3066	0.0500	8470	10000	-15.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6131	0.6007	0.0100	9800	10000	-2.0	20.0
2-tertbutyl-4-methylphenol	Ave	0.3514	0.3863		11000	10000	9.9	20.0
2,4,6-Trichlorophenol	Ave	0.3787	0.3998	0.2000	10600	10000	5.6	20.0

FORM III
HYDROCARBONS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 21EPH_24292036.011.d

Lab ID: 460-319158-2 MSD Client ID: MW-01_20250122 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Anthracene	38.8	25.6	60	12	50	40-140	
Pyrene	38.8	24.1	62	16	50	40-140	
Benzo[g,h,i]perylene	38.8	17.5	45	26	50	40-140	
Indeno[1,2,3-cd]pyrene	38.7	20.0	52	24	50	40-140	
Benzo[b]fluoranthene	38.8	16.8	43	36	50	40-140	
Fluoranthene	38.8	25.1	55	15	50	40-140	
Benzo[k]fluoranthene	38.7	25.9	67	5	50	40-140	
Acenaphthylene	38.8	19.8	51	16	50	40-140	
Chrysene	38.8	24.4	63	14	50	40-140	
Benzo[a]pyrene	38.8	18.8	49	20	50	40-140	
Dibenz(a,h)anthracene	38.7	20.1	52	21	50	40-140	
Benzo[a]anthracene	38.8	21.0	54	19	50	40-140	
Acenaphthene	38.7	24.4	53	17	50	40-140	
Phenanthrene	38.8	29.9	54	16	50	40-140	
Fluorene	38.8	26.9	56	15	50	40-140	
Naphthalene	38.8	28.6	52	22	50	40-140	
2-Methylnaphthalene	38.7	21.1	54	16	50	40-140	
C11-C22 Aromatics (unadjusted)	658	435	51	18	50	40-140	

Column to be used to flag recovery and RPD values

FORM III MA-EPH

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 3F0042459.D

Lab ID: LCS 460-1018883/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Diesel Range Organics [C10-C28]	900	543	60	27-150	
ORO (C28-C44)	500	191	38	18-120	

Column to be used to flag recovery and RPD values

FORM III 8015D

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 3F0042460.D

Lab ID: LCSD 460-1018883/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Diesel Range Organics [C10-C28]	900	642	71	17	30	27-150	
ORO (C28-C44)	500	185	37	3	30	18-120	

Column to be used to flag recovery and RPD values

FORM III 8015D

FORM II
HERBICIDES SURROGATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): DB-5 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	DCPAA1 #	DCPAA2 #
MW-02_20250122	460-319158-1	54	77
MW-01_20250122	460-319158-2	26	593 *
MW-0X_20250122	460-319158-3	28	68
FB-01_20250122	460-319158-4	29	33
MW-03_20250127	460-319369-1	130	181 *
	MB 460-1017861/1-A	42	48
	MB 460-1018283/1-A	45	55
	LB 460-1018130/1-E	102	119
	LCS 460-1017861/2-A	41	51
	LCS 460-1018283/2-A	68	84
	LCSD 460-1017861/3-A	51	57
	LCSD 460-1018283/3-A	75	84
MW-01_20250122 MS	460-319158-2 MS	33	611 *
MW-01_20250122 MSD	460-319158-2 MSD	79	835 *

	QC LIMITS
DCPAA = 2,4-Dichlorophenylacetic acid	10-150

Column to be used to flag recovery values

FORM II 8151A

FORM III
HERBICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15F0211884.D

Lab ID: LCS 460-1017861/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4,5-T	2.00	1.16 J	58	35-150	
2,4,5-T	2.00	1.40	70	35-150	
2,4-D	8.00	3.50	44	25-150	
2,4-D	8.00	3.48	44	25-150	
Silvex (2,4,5-TP)	2.00	1.52	76	39-150	
Silvex (2,4,5-TP)	2.00	1.55	78	39-150	

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM III
HERBICIDES LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15F0211885.D

Lab ID: LCSD 460-1017861/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4,5-T	2.00	1.41	70	20	30	35-150	
2,4,5-T	2.00	1.81	90	25	30	35-150	
2,4-D	8.00	4.33	54	21	30	25-150	
2,4-D	8.00	4.33	54	22	30	25-150	
Silvex (2,4,5-TP)	2.00	1.75	88	15	30	39-150	
Silvex (2,4,5-TP)	2.00	1.77	89	13	30	39-150	

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM III
HERBICIDES MATRIX SPIKE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15F0211889.D

Lab ID: 460-319158-2 MS Client ID: MW-01_20250122 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
2,4,5-T	2.00	1.2 U	1.44	72	35-150	
2,4,5-T	2.00	1.2 U	0.751 J	38	35-150	
2,4-D	8.00	1.2 U	2.16	27	25-150	
2,4-D	8.00	1.2 U	2.29	29	25-150	
Silvex (2,4,5-TP)	2.00	1.2 U	1.14 J	57	39-150	
Silvex (2,4,5-TP)	2.00	1.2 U	1.18 J	59	39-150	

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM III
HERBICIDES MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-319158-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15F0211890.D

Lab ID: 460-319158-2 MSD Client ID: MW-01_20250122 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4,5-T	2.00	3.53	177	84	30	35-150	*
2,4,5-T	2.00	2.61	130	111	30	35-150	*
2,4-D	8.00	6.96	87	105	30	25-150	*
2,4-D	8.00	8.70	109	117	30	25-150	*
Silvex (2,4,5-TP)	2.00	2.54	127	76	30	39-150	*
Silvex (2,4,5-TP)	2.00	2.88	144	84	30	39-150	*

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison | Job No.: 460-319158-1

SDG No.:

Lab Sample ID: CCV 460-1017895/28 | Calibration Date: 01/24/2025 13:48

Instrument ID: CPESTGC15 | Calib Start Date: 01/17/2025 10:35

GC Column: CLP-2 ID: 0.53(mm) | Calib End Date: 01/17/2025 12:10

Lab File ID: 15F0211893.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	355630	324253		417	458	-8.8	15.0
Dicamba	Ave	1092144	864404		376	475	-20.9*	15.0
Mecoprop	Ave	1147	1379		57000	47400	20.3*	15.0
MCPA	Ave	1781	1934		50900	46900	8.6	15.0
Dichlorprop	Ave	260490	255045		465	475	-2.1	15.0
2,4-D	Ave	292833	297017		482	475	1.4	15.0
Pentachlorophenol	Ave	3579556	3744256		249	238	4.6	15.0
Silvex (2,4,5-TP)	Ave	1302926	1377271		507	480	5.7	15.0
2,4,5-T	Ave	1310434	1382113		506	480	5.5	15.0
2,4-DB	Ave	283891	294286		503	485	3.7	15.0
Picloram	Ave	2103824	2154617		241	235	2.4	15.0
Dinoseb	Ave	927107	958244		496	480	3.4	15.0
2,4-Dichlorophenylacetic acid	Ave	290387	240407		791	955	-17.2*	15.0

February 20, 2025

Mr. Patrick Diggins
AKRF
440 Park Avenue South
7th Floor
New York, NY 10016

Re: Data Usability Summary Report – Eurofins Cleveland– 460-319159-1

Dear Mr. Diggins:

The evaluation of analytical data by Eurofins Cleveland for four aqueous samples and one field blank from the Bud North site, which were reported in a single data package under Job No. 460-319159-1 has been completed. The following samples were reported:

MW-02_20250122	MW-01_20250122
MW-01X_20250122	FB-01_20250122
MW-03_20250127	

Analyses were performed in accordance with USEPA Method 1633 [Per- and Polyfluoroalkyl Substances (PFAS)]. The review was performed to the extent possible, in accordance with the analytical method, "Sampling, Analysis, and Assessment of Per-And Polyfluoroalkyl Substances (PFAS) under NYSDEC's Part 375 Remedial Programs", April 2023 and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	Yes
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes

6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes
7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result.

- The result for PFDS in MW-02_20250122, MW-01_20250122, MW-01X_20250122 and FB-01_20250122 are qualified as estimated (J-, UJ) due to low response in the low-level continuing calibration verification (CCV) standard.

- The results for all target analytes in MW-03_20250127 are qualified as estimated (J-, UJ) because a subsample was used for extraction and not the entire sample volume.

- The results for perfluorooctanesulfonic acid (PFOS), perfluoropentanoic acid (PFPeA), perfluorohexanoic acid (PFHxA), perfluorooctanoic acid (PFOA), perfluorohexanesulfonic acid (PFHxS), perfluorobutanoic acid (PFBA), perfluorobutanesulfonic acid (PFBS), perfluoroheptanoic acid (PFHpA), and perfluorononanoic acid (PFNA) in MW-02_20250122, MW-01_20250122 and MW-01X_20250122 are qualified as estimated (J-, UJ) due to high relative percent difference (RPD) between field duplicate samples.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
    - Method, instrument blanks
    - Field blanks

  - Labeled analog recoveries
  - OPR and LL OPR recoveries
  - MS/MSD recoveries
  - Extracted internal standards (EIS) and non-extracted internal standards (NIS)
  - Duplicates
  - Analyte Identification
- Instrument related quality control data:
  - Instrument tunes
  - Calibration summaries

In the remaining sections of this report, only those quality excursions resulting in qualified data are discussed below. Quality control excursions having no impact on sample results are not discussed.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of January 22 and 27, 2025. The samples were received at the Eurofins Edison laboratory on the same day as sample collection, then subcontracted to Eurofins Cleveland. All samples were received intact and analyzed within method holding time.

Calibration

Two initial calibrations were performed in support of sample analysis. All response factors and relative standard error values are acceptable. Continuing calibrations were performed at the required frequency and are acceptable with the exception of PFDS (39.1%D) in the CCV analyzed on instrument LCMS02 on 1/28/2025. The percent difference represents a decrease in instrument sensitivity. The result for PFDS in MW-02_20250122, MW-01_20250122, MW-01X_20250122 and FB-01_20250122 are qualified as estimated (J-, UJ) due to low response in the CCV.

Labeled analogs / Extracted Internal Standards (EIS)

EIS are evaluated using the control limits in the method. All recoveries are acceptable, with the exception of M2-4:2 FTS (203%R) in MW-01_20250122. The corresponding target analyte is not detected in the sample and the high recovery has no impact; no qualification of sample results is warranted.

Analyte Quantitation

The results for all target analytes in MW-03_20250127 are qualified as estimated (J-, UJ) because a subsample was used for extraction and not the entire sample volume. Because the entire contents of the sample container were not used, any PFAS that adsorbs to the surface of the bottle is not captured. Detected analytes may be biased low and nondetected analytes may be false negatives.

Field Duplicates

MW-01X_20250122 was submitted as a field duplicate of MW-01_20250122. Precision is acceptable (RPD≤30) as presented below. Detections below the reporting limit are not evaluated.

Analyte	**MW-01_20250122 (ng/L)**	**MW-01X_20250122 (ng/L)**	**RPD**
Perfluorooctanesulfonic acid (PFOS)	6.05	13.2	74
Perfluoropentanoic acid (PFPeA)	8.8	37.7	125
Perfluoropentanesulfonic Acid (PFPeS)	0.48 J	0.7 J	nc
Perfluorodecanoic acid (PFDA)	ND	0.81 J	nc
Perfluorohexanoic acid (PFHxA)	9.32	41.8	127
Perfluorooctanoic acid (PFOA)	31.4	47	39
Perfluorohexanesulfonic acid (PFHxS)	1.28 J	4.33	109
Perfluorobutanoic acid (PFBA)	9.72	23.9	84
Perfluorobutanesulfonic acid (PFBS)	2.47	12.5	134
Perfluoroheptanoic acid (PFHpA)	6.02	13	72
Perfluorononanoic acid (PFNA)	0.89 J	2.67	100
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	0.81 J	nc

nc-not calculated
ND-not detected

The results for PFOS, PFPeA, PFHxA, PFOA, PFHxS, PFBA, PFBS, PFHpA, and PFNA in MW-02_20250122, MW-01_20250122 and MW-01X_20250122 are qualified as estimated (J-, UJ) due to high RPD between field duplicate samples.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.
Sincerely,

Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Phone 732-549-3900 Fax 732-549-3679

Chain of Custody Record

NY 222

eurofins

Client Information	Sampler: Mike Bates / Isabella Logovich	Lab PM: Flannery Elizabeth J	Carrier Tracking No(s):	COC No: 460-190530-124699 1
Client Contact: ~~Michael Bates~~ Patrick Diggins	Phone:	E-Mail: Elizabeth.Flannery@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 1
Company: AKRF Inc	PWSID:	Analysis Requested		Job #: 319159
Address: 440 Park Avenue South 7th Floor	Due Date Requested:			Preservation Codes: N - None
City: New York	TAT Requested (days):			
State Zip: NY, 10016	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 200112			
Email: ~~mbates@akrf.com~~ JDiggins@AKRF.com	WO #:			
Project Name: Bud North - 2-21 Malt Drive, Long Island	Project #: 46045611			
Site: Bud North	SSOW#:			

460-319159 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - 1633 Standard List of 40	Total Num	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
MW-02_20250122	1/22/25	1033	G	Water			X	3	
MW-01_20250122	"	1335	"	Water			X	4	
MW-0X_20250122	"	1200	"	Water			X	3	
FB-01_20250122	"	1205	"	Water			X	3	
				Water					
				Water					
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: AHRF EQuIS, CAT B, Keep SDG open

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Mike Bates	1/22/25 1500	AKRF		1/22/25	FedEx
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				1-22-25 16:00	ET
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1-22-25 18:00	ET		1/22/25 1800	Dock

Custody Seals Intact: Δ Yes Δ No | Custody Seal No: no/cs RLB4

Cooler Temperature(s) °C and Other Remarks: 3.5/3.7-4.2/4.4-5.7/5.9-5.3/5.5-5.5/5.7

Ver 10/10 2024

Chain of Custody Record

674934

eurofins | Environment Testing America

Address _____

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Patricia Diggins	Site Contact: Mike Bates	Date: 1/27/25	COC No:
Company Name: AHRF	Tel/Email: jD 99.ns@AHRF.com	Lab Contact:	Carrier:	1 of 1 COCs
Address: 440 Park Ave S	Analysis Turnaround Time			Sampler:
City/State/Zip: NY NY 10016	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling
Project Name: Bud North	☒ 1 week			
Site: 2-21 Halt Drive, LIC, NY	☐ 2 days			Job / SDG No.: 319401
PO# 20917	☐ 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)	1633 Standard List PFAS	Sample Specific Notes:
MW-03_20250127	1/27/25	1430	G	GW	3			X	-1

460-319401 Chain of Custody

Page 3018 of 3024

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: AHRF EQUIS, CAT B, Close SDG

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by: Mike Bates	Company: AHRF	Date/Time: 1/27/25 1300	Received by:	Company: EET 1-27-25	Date/Time: 16:30
Relinquished by:	Company: EET 1-27-25	Date/Time: 1800	Received by:	Company:	Date/Time: 1/27/25 1800
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

no/cs rec'd 2/3/25

ATTACHMENT C

SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 460-319159-1

SDG No.:

Lab Sample ID: CCVL 240-642732/2 Calibration Date: 01/28/2025 02:55

Instrument ID: LCMS02 Calib Start Date: 01/24/2025 17:36

GC Column: ID: Calib End Date: 01/24/2025 19:15

Lab File ID: 2025_1_27water,2.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoroundecanoic acid (PFUnA)	AveID	0.7685	0.8206		0.0534	0.0500	6.8	30.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonic acid	AveID	7.880	7.990		0.189	0.186	1.4	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9618	1.240		0.0620	0.0481	28.9	30.0
Perfluorododecanoic acid (PFDoA)	AveID	1.017	1.058		0.0520	0.0500	4.0	30.0
Perfluorooctanesulfonamide (PFOSA)	AveID	1.026	1.117		0.0544	0.0500	8.9	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.037	1.442		0.0670	0.0482	39.1*	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	1.182	1.517		0.0642	0.0500	28.4	30.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid	AveID	7.216	7.454		0.195	0.188	3.3	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	1.403	1.444		0.0515	0.0500	2.9	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.8344	0.8454		0.0491	0.0485	1.3	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	0.1134	0.1135		0.501	0.500	0.1	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	1.010	1.238		0.0613	0.0500	22.6	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	0.0936	0.1032		0.551	0.500	10.2	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	1.078	1.150		0.0534	0.0500	6.7	30.0
13C4 PFBA	Ave	0.6043	0.5504		2.28	2.50	-8.9	30.0
13C5 PFPeA	Ave	0.6670	0.5830		1.09	1.25	-12.6	30.0
M2-4:2 FTS	Ave	0.0849	0.1000		1.38	1.17	17.9	30.0
13C5 PFHxA	Ave	1.369	1.132		0.517	0.625	-17.3	30.0
13C3 PFBS	Ave	1.069	1.068		0.582	0.583	-0.0	30.0
13C3 HFPO-DA	Ave	0.1868	0.1746		2.34	2.50	-6.5	30.0
13C4 PFHpA	Ave	1.445	1.140		0.493	0.625	-21.2	30.0
M2-6:2 FTS	Ave	0.0765	0.0856		1.33	1.19	11.9	30.0
13C8 PFOA	Ave	5.236	5.152		0.615	0.625	-1.6	30.0
13C3 PFHxS	Ave	0.996	1.050		0.625	0.593	5.5	30.0
13C9 PFNA	Ave	0.9313	0.9144		0.307	0.313	-1.8	30.0
M2-8:2 FTS	Ave	0.0555	0.0586		1.27	1.20	5.6	30.0
d3-NMeFOSAA	Ave	0.2824	0.2960		1.31	1.25	4.8	30.0
13C6 PFDA	Ave	1.144	1.018		0.278	0.313	-11.0	30.0
d5-NEtFOSAA	Ave	0.3160	0.3546		1.40	1.25	12.2	30.0
13C8 PFOS	Ave	1.060	0.9236		0.522	0.599	-12.9	30.0
13C7 PFUnA	Ave	1.202	1.155		0.300	0.313	-3.9	30.0
13C2-PFDoDA	Ave	1.117	0.9279		0.260	0.313	-16.9	30.0
13C8 FOSA	Ave	1.073	0.9644		0.562	0.625	-10.1	30.0
13C2 PFTeDA	Ave	0.6831	0.6220		0.285	0.313	-9.0	30.0
d7-N-MeFOSE-M	Ave	0.4200	0.3680		5.48	6.25	-12.4	30.0

ATTACMENT C
SSDS AND SVES INSPECTION LOGS

SSDS MONITORING INSPECTION FORM Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY			
Inspector Name:	Mike Bates	**Date:** 1/27/2025	
Time In:	900	**Time Out:**	1700
General			
Weather: Sunny	Temperature: 30-39 deg F	Barometric Pressure: 30.03 inhg	
1. When was the last rain event?	1/18/2025		
2. Is the blower currently operating? Yes *If no, please list reason/alarm condition:*			
3. Any evidence of system tampering, vandalism or damage in the first floor equipment room? - No			
4. Is air discharging from the exhaust piping to the roof? - Yes			
5. Any evidence of system tampering, vandalism, or damage to the exhaust stack? - No			
6. Were all cleanout/sampling port caps securely attached prior to system testing? - Yes *If no, list location and contact Project Manager/Project Director.*			
7. Is the concrete floor slab overlying all of the SSDS piping runs intact? - Yes *If no, list location and contact Project Manager/Project Director.*			

SSDS MONITORING INSPECTION FORM
Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY

Inspector Name:	Mike Bates	**Date:** 1/27/2025	
Time In:	900	**Time Out:**	1700

SSDS Operations

Blower Inlet PID (ppm)	**NA**

Monitoring Point (MP) or Riser Leg (RL) Identification	Location	Differential Pressure	Applied Vacuum[1] in. H_2O	Induced Vacuum[2] in. H_2O	Flow Rate[1] cfm	Notes
MP-01	Incoming Water Room	NA	NA	0.76	-	
MP-02	West Compactor/Recycle Room	NA	NA	0.81	-	
MP-03	West Compactor/Recycle Room	NA	NA	-	-	Point Covered
MP-04	Fire Pump Room	NA	NA	0.74	-	
MP-05	Garage Storage	NA	NA	0.82	-	
MP-06	Back of House Vestibule	NA	NA	0.71	-	
MP-07	Bike Room (west)	NA	NA	0.75	-	
MP-08	Parking Garage	NA	NA	0.73	-	
MP-09	Package Room	NA	NA	0.79	-	
MP-10	Bike Room (east)	NA	NA	0.85	-	
MP-11	SVE Equipment Room	NA	NA	0.83	-	
MP-12	East Compactor Room	NA	NA	0.85	-	
MP-13	West Compactor Room	NA	NA	0.76	-	
MP-14	Water Service Room / SVE Equipment Room	NA	NA	0.76	-	
SSDS-N1			1.5	NA	44	
SSDS-N2			1.5	NA	30	
SSDS-N3			1.8	NA	3	
SSDS-N4			1.5	NA	30	
SSDS-N5			1.5	NA	34	
SSDS-N6			1.5	NA	38	
SSDS-N7			1.5	NA	34	
SSDS-N8			1.5	NA	20	
SSDS-N9	Loading Dock		1.5	NA	10	water in tubing
SSDS-N10			1.0	NA	25	
SSDS-N11			1.2	NA	15	
SSDS-N12			1.3	NA	30	
SSDS-N13			1.4	NA	30	
SSDS-N14			1.2	NA	23	
SSDS-N15			1.4	NA	8	water in tubing
SSDS-N16			1.0	NA	30	
Combined applied vacuum on SSDS-1 riser =		NA	2.0	NA		
Combined applied vacuum on SSDS-2 riser =		NA	1.0	NA	water in tubing	

Notes:

1. Normal system flow rates range from 40 to 100 cfm. Applied vacuum readings range from 1 to 15 in. H_2O. System readings will be obtained from each riser leg (SSDS-N1 through SSDS-N16).
2. Normal system induced vacuum readings should be a minimum of 0.004 in. H_2O. System readings will be obtained from each monitoring point (MP-01 through MP-12).
3. If observations are confirmed to be outside of this range, inform emergency contacts in SMP and prepare corrective action plan, if necessary.

in. of H_2O - inches of water NA - not applicable cfm - cubic feet per minute

SVE INSPECTION LOG
MONTHLY SOIL VAPOR EXTRACTION SYSTEM INSPECTION
Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY

Inspector Name: Mike Bates	**Date:** 1/27/25
Time IN: 900	**Time OUT:** 1700

GENERAL

Weather:	Clear	Temperature:	30-37 deg f	Barometric Pressure:	30.03	Equipment Room Temperature:	75

When was the last rain event? 1/18/2025

Is the SVE system being cycled on or off this month? On / Off (circle one) On

If issues cycling system on or off, ALERT PROJECT MANAGER and please describe issue:

Is the SVE blower currently operating? Yes

If no, ALERT PROJECT MANAGER and please list reason/alarm condition:

What is the VFD setting? 40 Hz

If under 30 Hz, ALERT PROJECT MANAGER:

Is condensate in the knockout tank gauge below the low-high float sensor? Yes

If no, ALERT PROJECT MANAGER and manually drain knockout tank

Is transfer pump working? Yes

If no, ALERT PROJECT MANAGER.

Is 55-gallon drum full? No

If yes, acknowledge alarm on panel and ALERT PROJECT MANAGER.

Any evidence of system tampering, vandalism or damage? No

If yes, ALERT PROJECT MANAGER and please note findings:

Any evidence of system tampering, vandalism or damage to the exhaust stack? No

If yes, ALERT PROJECT MANAGER and please note findings:

Notes: This SVE Inspection Log should be completed along with the sampling log for each sampling event.
PID - Photoionization Detector; ppm - parts per million; NA - Not applicable; GAC - Granular Activated Carbon

Comments:

Emergency Contact Information		
Name	**Title**	**Contact Number**
Marc Godick	AKRF Project Director	914-922-2356 (office)
Patrick Diggins	Project Manager	914-922-2356 (office)
		603-494-7090 (cell)
Chris Steinmann	Owner's Representative	917-295-0948 (cell)

SVE INSPECTION LOG
MONTHLY SOIL VAPOR EXTRACTION SYSTEM INSPECTION
Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY

SVE Operation
CALL PROJECT MANAGER IF READING OUTSIDE ACCEPTABLE/TYPICAL RANGE (IN GRAY)

Pre-Blower Inlet Temperature (°F): 40-80°F	Post-Blower Outlet Temperature (°F): 70-110°F	Knockout Tank Vacuum (Inches of water column): 0-50 inH2O
68	110	0
Pre-filter Vacuum (Inches of water column): 0-50 inH2O	**Post-filter Vacuum (Inches of water column): 0-50 inH2O**	**Post-Blower Pressure (Inches of water column): 0-20 inH2O**
5	8.5	24
GAC Influent PID (ppm):	**GAC Intermediate PID (ppm): Less than GAC Influent PID**	**GAC Effluent PID (ppm): <1 ppm**
0.4	0.2	0

Monitoring Location	Vacuum Reading in. H2O	Air Flow Reading in. H2O	Air Flow Reading CFM	Notes
SVMP-01	0.79	-	-	Next to MW-1
SVMP-02	0.75	-	-	Hallway to compactor west, next to elevator room door
SVMP-03	0.85	-	-	Restroom in homework area
SVMP-04	0.69	-	-	Package room
SVMP-05	0.71	-	-	Parking spot 27
SVMP-06	0.81	-	-	Compactor room east
SVE-01	2.0	0.09	20	
SVE-02	1.8	0.19	38	
SVE-03	1.9	0.13	30	
SVE-04	3.2	0.09	20	Water seen in gauge tubing.
SVE-05	4.5	0.01	3	