

Groundwater Monitoring Report

Groundwater Sampling Event, June 2023

Former Cleanerama Site
Site No. 4-01-056
Work Assignment No. D009803-47

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Acronyms and Abbreviations

AWQS	New York State Ambient Water Quality Standards and Guidance Values
CVOCs	Chlorinated Volatile Organic Compounds
CHES	Clean Harbors Environmental Services, Inc.
DHb	Dehalobacter
DHc	Dehalococcoides
Do	Dissolved Oxygen
DUSR	Data Usability Summary Report
EHC-L	EHC®-Liquid
EVO	Emulsified Vegetable Oil
FS	Feasibility Study
ISCR	In Situ Chemical Reduction
µg/L	Micrograms per liter
NTU	Nephelometric Turbidity Units
ng/L	Nanograms per liter
NYSDEC	New York State Department of Conservation
ORP	Oxidation Reduction Potential
PCE	Tetrachloroethene
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PRAP	NYSDEC Proposed Remedial Action Plan
PRB	Permeable Reactive Barrier
RI	Remedial Investigation
ROD	NYSDEC Record of Decision
SSD	Sub-Slab Depressurization
TCE	Trichloroethene
VOCs	Volatile Organic Compounds
ZVO	Zero Valent Iron

1.0 Introduction

1.1 General

This report documents the groundwater sampling event conducted in June 2023 at the Former Cleanerama Site (Site), Site No. 4-01-056, located at 253 Osborne Road, Loudonville, Albany County, New York (Figure 1). The sampling was conducted for Work Assignment No. D009803-47 of the State Superfund Standby Contract between the New York State Department of Environmental Conservation (NYSDEC) and AECOM Technical Services Northeast, Inc. (AECOM).

The report presents and interprets analytical results for the groundwater sampling conducted from June 6 – 8, 2023, along with conclusions and recommendations.

1.2 Site Description

The Site is an approximately 0.9-acre property located immediately north of the intersection of Osborne Road and Albany-Shaker Road in Colonie, Albany County, New York (**Figure 1**). The Site was previously developed as a strip mall that included a dry cleaner called Cleanerama, which operated from approximately 1960 to 1995. The strip mall was demolished in 2010, and the Site is currently vacant and undeveloped. Nearby parcels are used for commercial purposes, with a children's gymnasium and restaurants located on the adjacent property to the northwest (hydraulically downgradient/cross gradient) of the Site.

1.3 Background

A subsurface investigation was conducted at the property, as part of real estate property transaction, in 2003. Trichloroethene (TCE) and Tetrachloroethene (PCE) were detected in soil and groundwater; only PCE was detected above the relevant New York State Ambient Water Quality Standard (AWQS). NYSDEC addressed the contamination under Spill #0305984 by removing a septic system and 234 tons of contaminated soil.

PCE contamination in soil and groundwater was detected again at the Site in 2007 during a Phase II site assessment. Based on the sampling results, NYSDEC issued spill number #0702543. It was determined that a second septic system on the property may have been a source of the PCE soil and groundwater contamination. Further soil, soil vapor and groundwater investigations were completed followed by a limited soil removal action in December 2007.

The Site owner and NYSDEC executed a Consent Order in 2008 to implement additional soil and groundwater investigation and remediation work associated with the demolition of the existing building. Off-Site investigations conducted by the Site owner (2007 and 2008) and NYSDEC (2011) identified soil vapor impacts to an adjacent building, as well as contaminated groundwater migrating from the Site. Due to high sub-slab VOC concentrations found at the adjacent building, a sub-slab depressurization system was installed by the property owner in 2012. The system remains active.

A remedial investigation (RI) was conducted by NYSDEC in 2014 to further evaluate the nature and extent of on-Site and off-Site PCE contamination in soil, soil vapor, and groundwater. Results of the RI and prior investigations were compiled in a final RI report (Shaw, 2015a). A feasibility study (FS) was completed by NYSDEC to evaluate five remedial alternatives for the Site, and the results of the study were presented in a final FS report (Shaw, 2015b).

NYSDEC issued a Proposed Remedial Action Plan (PRAP) in February 2015 to outline five remedial alternatives that were evaluated during the FS and to recommend a proposed remedy (NYSDEC, 2015a). Following a subsequent 30-day public comment period, and public meeting, NYSDEC issued the Record of Decision (ROD) for the Former Cleanerama Site on March 31, 2015 (NYSDEC, 2015b). Elements of the selected remedy in the ROD include:

- In-Situ Chemical Reduction (ISCR) injection designed to stimulate the complete degradation of PCE and its daughter products in groundwater;
- A permeable reactive barrier (PRB) using zero valent iron (ZVI) or another reduced metal placed below the water table at the downgradient end of the contaminant plume;
- Continued operation and maintenance of the sub-slab depressurization (SSD) system at the adjacent commercial building;
- Institutional Controls; and
- Site Management.

A remedial pilot study was conducted in 2016-2017 to compare the effectiveness of EHC®-Liquid (EHC-L), a proprietary ISCR reagent, with emulsified vegetable oil (EVO) which is used to biologically enhance reductive dechlorination, for the treatment of chlorinated volatile organic compounds (CVOCs) in the site groundwater. Injection wells IW-1 and IW-2 were installed and used for the EHC-L and EVO injection pilot studies, respectively. The results of the pilot studies were submitted to NYSDEC in a report entitled Pre-Design Investigation Report (Arcadis, 2017). Conclusions in the report state that evidence of abiotic degradation was not observed in the EHC-L pilot test area and that EVO injection resulted in treatment via the abiotic degradation pathway, and potentially via the biological degradation pathway. EVO was recommended for full-scale remediation.

In July 2018 Arcadis conducted a groundwater sampling event at the Site and adjoining property to evaluate groundwater contaminant levels following the remedial pilot study and to assess whether the emerging contaminants per- and poly-fluoroalkyl substances (PFAS) and 1,4-Dioxane were present in the groundwater at the Site. The results were submitted to NYSDEC in a report memorandum (Arcadis, 2018). It was concluded in the memorandum that CVOC concentrations at the Site had not changed significantly since the end of the pilot study in June 2017. The memorandum does not include conclusions regarding the PFAS and 1,4-dioxane analytical results. AECOM notes, however, that Perfluorooctanoic acid (PFOA) was reported as detected in samples from well MW-8 and OS-1 and Perfluorooctanesulfonic acid (PFOS) was reported in the sample from well MW-8 at concentrations that were slightly above current NYSDEC Guidance Values for these compounds of 2.7 nanograms per liter (ng/L) and 6.7 ng/L, respectively. 1,4-dioxane was reported as detected at a low concentration in the sample from MW-8, although the result was "B" qualified for also being detected in the laboratory method blank.

2.0 Field Activities

This section describes the monitoring well inventory, inspection, redevelopment, and sampling activities AECOM conducted under Work Assignment No. D009803-47. These field activities were completed between May 16, 2023, and June 8, 2023. Of the twenty-two wells that were located, inspected, and redeveloped, 21 were sampled.

2.1 Well Inventory and Redevelopment

On May 16 and 17 2023, AECOM completed an inspection of the existing monitoring well network at the Site. According to prior reports, the network is comprised of twenty-seven wells located on the Site and surrounding parcels (**Figure 2**). During the inspection, five of the wells (OS-5, OS-7, OS-8, OS-11 and MW-7) could not be located and are assumed to have been paved over. AECOM gauged depth to water and total depth in the remaining 22 wells. Between May 22 and May 25, 2023, AECOM purged groundwater from each well to redevelop the well screens and improve communication with the aquifer. Piston-lift and peristaltic pumps were used for the purging. All purgewater was containerized in steel 55-gallon drums which were staged in a rented conex box. Copies of the monitoring well inspection and redevelopment field logs are included in **Appendix A**.

2.2 Groundwater Sampling

AECOM conducted the groundwater sampling event between June 6 and 8, 2023. Monitoring well MW-11 went dry during redevelopment and did not recover, so it was not sampled. Groundwater samples were collected from the remaining twenty-one wells. This included seven on-Site monitoring wells and one injection well (OS-1, OS-2, OS-3, OS-4, OS-6, MW-12, and IW-2) and twelve off-Site monitoring wells and one injection well (MW-1, MW-2, MW-3, MW-4, MW-5, MW-5A, MW-6, MW-8, MW-9R, MW-10, OS-10, OS-12 and IW-1). Injection wells IW-1 and IW-2 were installed during the 2016-2017 remedial pilot study.

Prior to initiating sampling, a synoptic round of depth-to-water measurements was conducted using an electronic water level indicator, which was washed in a non-phosphate detergent solution, (LiquiNox® and potable water), and rinsed with distilled water before each use. All wells were purged and sampled with a peristaltic pump using low flow purging techniques. New disposable high-density polyethylene tubing was used in all wells. The end of the dedicated tubing was placed at the center of each well screen. Water was pumped continuously, and flowrate was recorded between each 3 to 5 minute interval. Field parameter readings for turbidity, dissolved oxygen (DO), oxidation-reduction potential (ORP), specific conductivity, pH and temperature were measured during purging with a YSI 556 Multiparameter meter. Groundwater was purged from each well until field parameters stabilized and/or 3 well volumes were removed. Purgewater generated during sampling was also containerized in steel 55-gallon drums and staged in a rented conex box. A summary of the water level measurements and final field parameter readings at the completion of purging is provided in **Table 1**. Groundwater sampling logs are included in **Appendix B**. Stabilization was considered complete when three consecutive readings recorded levels within the following parameters:

- Turbidity - 10% for values greater than one Nephelometric Turbidity Units (NTU)
- DO - 10%

- Specific conductance - 3%
- Temperature - 3%
- pH - ± 0.1 unit
- ORP/Eh ± 10 millivolts

The groundwater samples were then collected in the appropriate bottleware provided by AECOM's standby contract laboratory, Pace Analytical Laboratories, East Longmeadow, Massachusetts (PACE). Samples were stored in an ice cooler until submitted with a completed Chain-of-Custody form to PACE to be analyzed. Each sample was analyzed for VOCs by Method 8260D. A subset of wells was sampled for dissolved gases (methane, ethane, and ethene) by Method RSK-175, Target Analyte List metals plus mercury by Methods 6010D/6020B, as well as general chemistry analytes including chloride, nitrate, sulfate, sulfide, alkalinity, sulfide, total organic carbon, total petroleum hydrocarbons. A further subset of samples was also analyzed for PFAS by USEPA draft Method 1633 and dechlorinating bacteria and functional genes. A list of the analytes each well was sampled for is provided in **Table 2**.

Pace Analytical Laboratories reported all analytical results in NYSDEC Analytical Services Protocol (ASP) Category B report.

2.3 Monitoring Well Purgewater Disposal

A total of four drums of groundwater was generated during monitoring well redevelopment and sampling activities. The drums were placed in a locked conex box that was temporarily staged at the Site. AECOM subcontracted shipment and disposal of the purgewater to Clean Harbors Environmental Services, Inc. (CHES). On December 1, 2023, CHES shipped the drums of purgewater, under a hazardous waste manifest to Spring Grove Resource Recovery, Inc., located in Cincinnati, OH, for treatment/disposal. The Generator's copy of the waste manifest is included in **Appendix C**.

3.0 Results

3.1 Groundwater Flow

Water level measurements were obtained prior to sampling the wells. These depth-to-water measurements were converted to water table elevations using top-of-casing elevations from previous reports (Shaw, 2015a).

The groundwater elevations, provided in **Table 1**, were used to produce a groundwater contour map of the shallow aquifer, as presented on **Figure 3**. Groundwater flow in the shallow water-bearing zone is to the northwest beneath the Site, and then westerly towards Sand Creek.

3.2 Analytical Results

The analytical results for the June 2023 groundwater sampling event are presented in **Tables 3 through 7**. **Table 3** includes the VOC analytical results, **Table 4** includes the TAL Metals + Hg analytical results, **Table 5** includes the geochemical analytical results (Dissolved Gases, Chloride, Nitrate, Sulfate, Sulfide, Total Organic Carbon, Total Petroleum Hydrocarbons and Alkalinity), **Table 6** includes the PFAS analytical results, and **Table 7** includes the dechlorinating bacteria analytical results. Laboratory analytical reports are included in **Appendix D**.

In **Table 3**, concentrations above relevant AWQS are in a shaded cell with bold typeface. Bolded text alone indicates a detection of the compound above the method detection limit, but below the individual AWQS.

Volatile Organic Compounds

Table 3 presents concentrations of VOCs for each sampled well. In the 22 monitoring wells sampled in June 2023, the VOC concentrations ranged from non-detect to 110 µg/L (PCE in well OS-1). VOCs were not detected above method detection limits in the samples collected from deep monitoring well MW-5. In the shallow monitoring wells, no VOCs were detected in four wells (MW-12, OS-2, OS-3 and OS-6). One or more VOCs were detected below relevant AWQS in the samples from IW-1, MW-3, MW-4, MW-10, OS-4 and OS-9. Ten wells, IW-2, MW-1, MW-2, MW-5A, MW-6, MW-8, MW-9R, OS-1, OS-10 and OS-12 had one or more CVOCs, the contaminants of concern at the Site, detected above relevant AWQS.

Figure 4 is an isoconcentration contour map of PCE concentrations reported for the shallow wells from the June 2023 sampling event. The map shows that the contaminant plume in the shallow aquifer extends from east to west across the Site with the highest PCE concentrations around well OS-1. **Figure 5** provides a summary of CVOC concentrations reported in thirteen wells sampled in 2017, 2018, and 2023. The data callout boxes show that CVOC concentrations decreased to some extent in most of the wells following the 2017 pilot study injections but remain above AWQS in many wells.

Metals and General Chemistry

The TAL metals (**Table 4**) and general chemistry (**Table 5**) analytical results provide information to assist in evaluating the degree to which biotic degradation of CVOCs may be occurring in the contaminant plume. AECOM will review this data as part of a pending Technical Memorandum to be completed under WA#47. That memorandum will evaluate and recommend future remedial options for the Site to address the residual contaminant plume.

Per- and Polyfluoroalkyl Substances and 1,4-Dioxane

The PFAS sample results are summarized in **Table 6**. One or more PFAS compounds were detected in samples from all four wells that were sampled. PFOA was detected in the sample from well OS-4 at a concentration of 11 ng/L, which exceeds the current NYSDEC Guidance Value of 6.7 ng/L. PFOS was detected in the samples from wells OS-4 and OS-1 at concentrations of 7.2 ng/L and 3.9 ng/L, respectively, results which both exceed the NYSDEC Guidance Value of 2.7 ng/L.

Dechlorinating Bacteria

Table 7 presents the results for dechlorinating bacteria. During the June 2023 sampling event eight wells (OS-1, IW-1, IW-2, MW-1, MW-2, MW-6, MW-8 and MW-9R) were sampled for dechlorinating bacteria. IW-1 retained high levels of dechlorinating bacteria as did MW-8 which is immediately downgradient of IW-1. The wells within the IW-1 area also contained the only detectable concentrations of dechlorinating functional genes (tceA, bvcA and vcrA). For the IW-2 injection area, IW-2 did not contain any detectable dechlorinating bacteria. However, OS-1 which is immediately adjacent to IW-2, contained high levels of both Dehalobacter and Dehalococcoides. MW-1 which is further downgradient of IW-2 also contained moderate levels of DHb and DHc.

3.3 Data Usability

The VOC and PFAS analytical data packages were reviewed for data usability by AECOM's Standby data validator, Validata Chemical Services, Inc. Validata's Data Usability Summary Reports (DUSRs) for these reviews are included in **Appendix E**. As presented in the DUSRs, there were no rejections of any VOC or PFAS results and therefore, all the data are acceptable overall for the intended purposes, as qualified for certain deficiencies. The PFAS DUSR notes RPD% between parent and field duplicate sample exceeded QC limits and certain compounds were flagged with a J-qualifier as an estimated concentration. In the VOC packages, a few initial and continuing instrument calibration criteria exceeded QC limits resulting in some 'non-detect' results being flagged with a UJ qualifier.

4.0 Summary and Conclusions

Review of the June 2023 VOC groundwater data demonstrates that groundwater contamination persists at the Cleanerama Site. The contaminant plume extends from east to west across the Site, with highest concentrations around monitoring well OS-1. Contaminant concentrations at the site appear to have decreased slightly in some monitoring wells, but overall, the contaminant plume extents and concentrations have not changed significantly since the 2017 pilot study.

One or more PFAS compounds were detected in samples from the four wells sampled. PFOS was detected slightly above the NYSDEC groundwater Guidance Value in samples from wells OS-1 and OS-4, and PFOA was detected above the Guidance Value in the sample from well OS-4.

The analytical results for dechlorinating bacteria showed that these microbial populations remain elevated in both the EHC-L and EVO injection areas.

5.0 References

Shaw, 2015a. *Final Remedial Investigation Report, The Former Cleanerama Site and Surrounding Properties*, January.

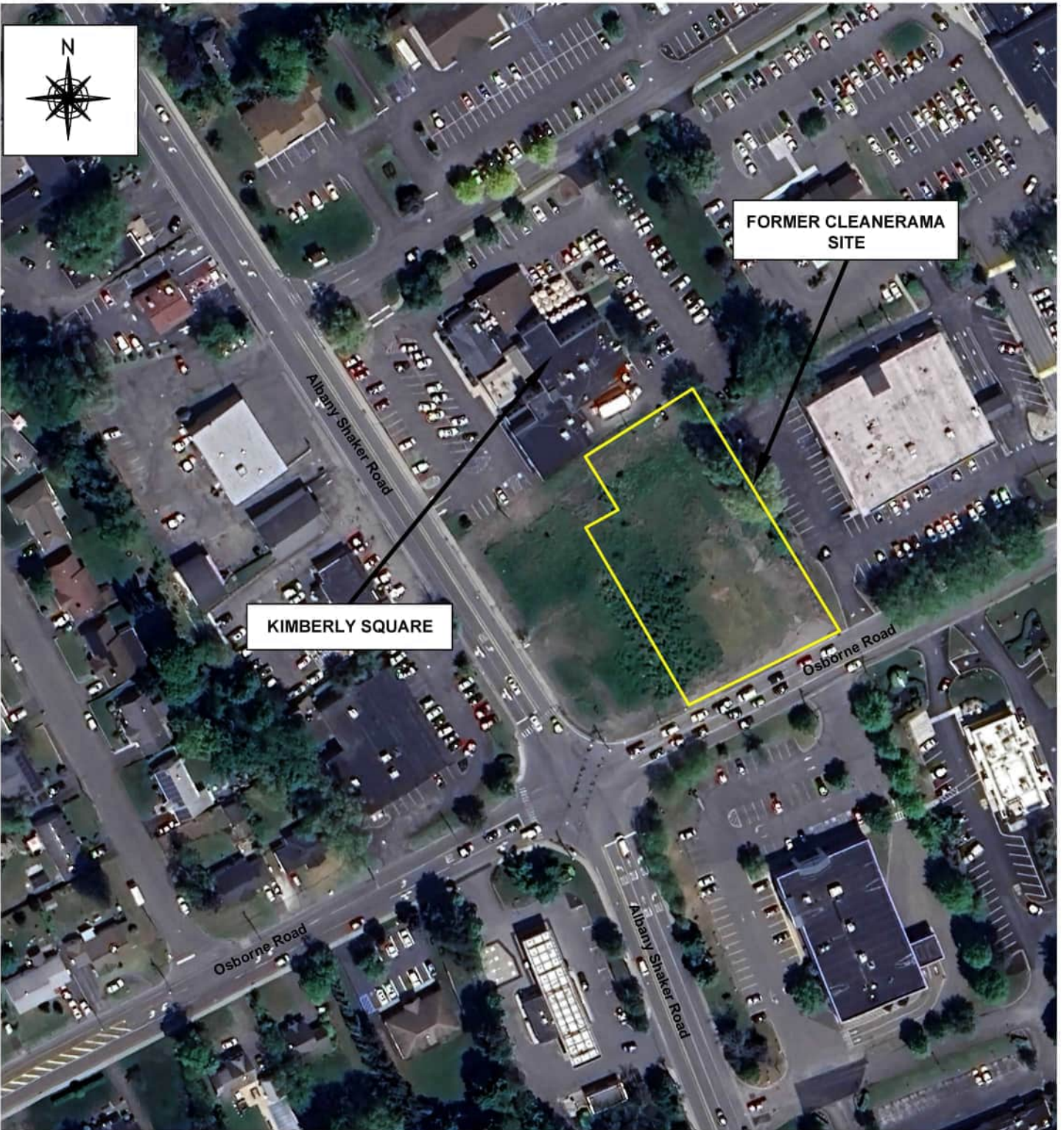
Shaw, 2015b. *Final Feasibility Study Report, Former Cleanerama Property*, February.

Arcadis, 2017. *Pre-Design Investigation Report, Former Cleanerama Site*, November.

NYSDEC, 2015a, *Proposed Remedial Action Plan, Former Cleanerama State Superfund Site, Site No. 401056*, February.

NYSDEC, 2015b, *Record of Decision, Former Cleanerama State Superfund Site, Site No. 401056*, March.

Figures



0 500 1,000
APPROXIMATE SCALE IN FEET

BASEMAP SOURCES:
Aerial Photography Provided By Google Earth. Imagery Date 05-2023.

Title: Site Location and Vicinity Map

Location: Former Cleanerama Site
Site No. 401056
253 Osborne Road
Loudonville, New York

Client: NYSDEC
D009803 WA#47

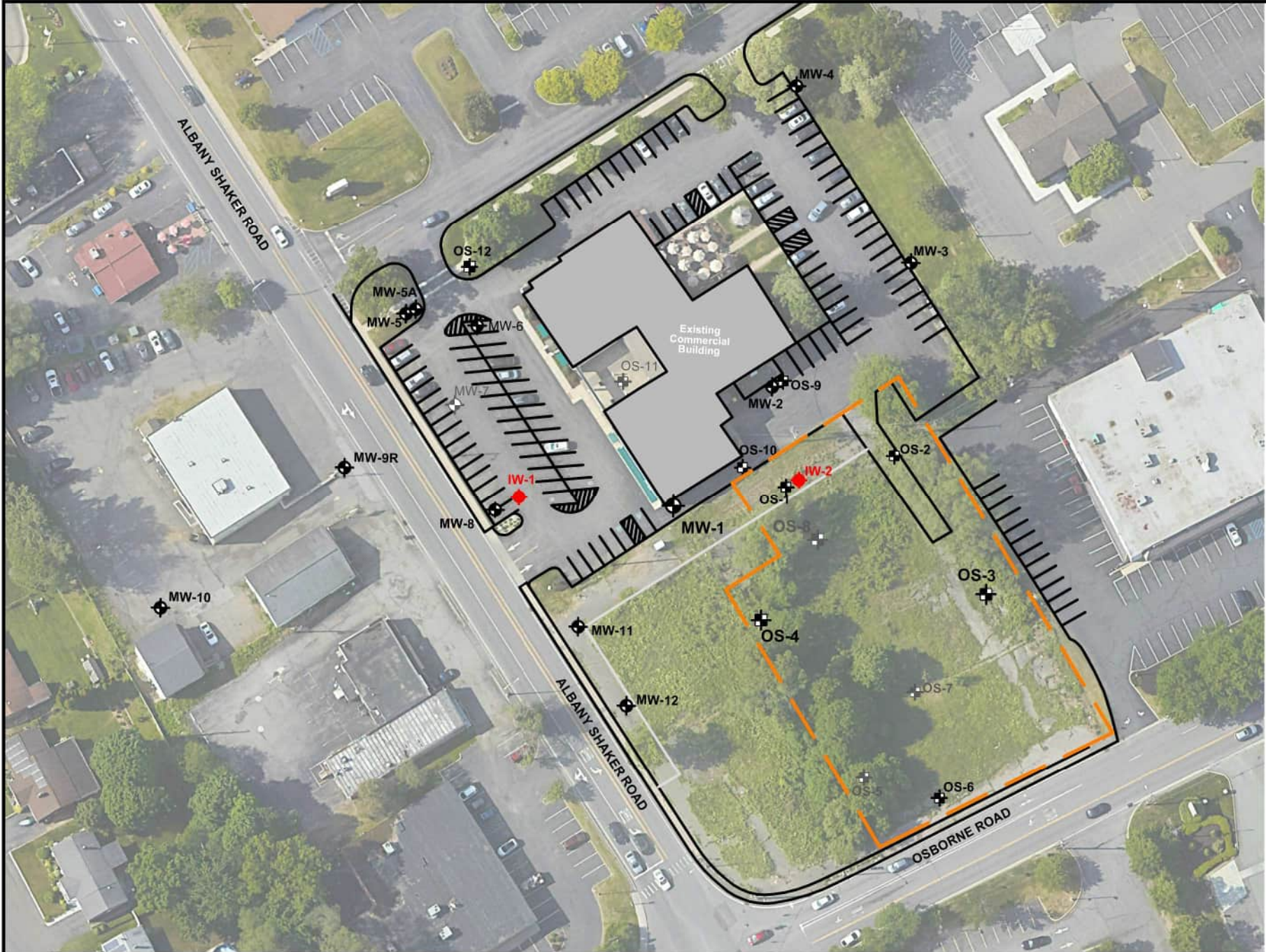
AECOM

AECOM
40 British American Boulevard
Latham, New York 12110

Drafter: CLS
Date: July 2023

Drg. Size: 8.5 x 11
Job No.: 60702147

FIGURE 1



LEGEND

- Former Cleanerama Site Boundary
- MW-9R  Monitoring Well Location (Shaw)
- OS-12  Monitoring Well Location (CPI)
- MW-7  Monitoring Well Location (Shaw) well paved over or could not be located
- OS-11  Monitoring Well Location (CPI) well paved over or could not be located
- IW-1  Injection Well Location (ARCADIS)



NOTES:

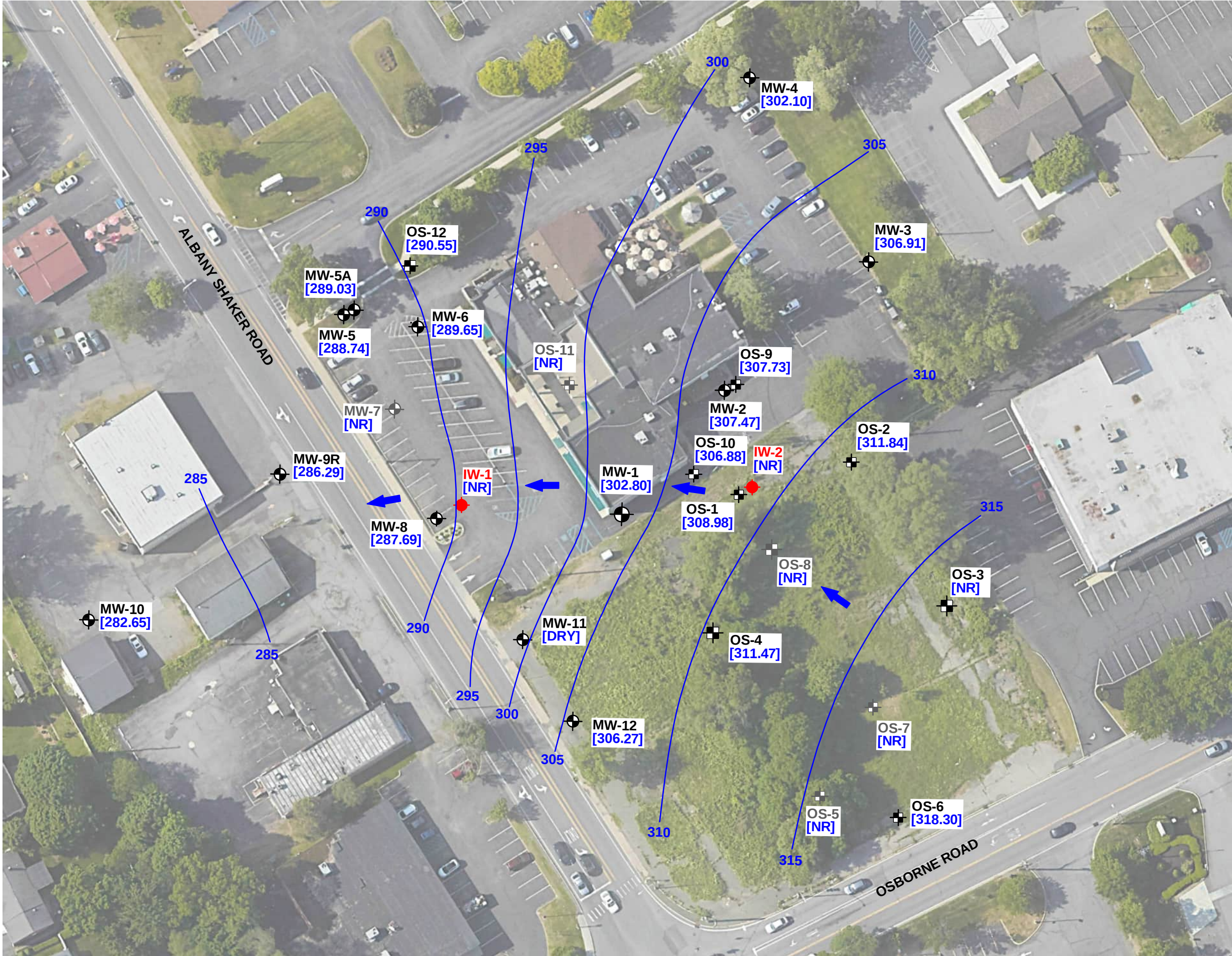
All locations are approximate.
Map Referenced from Google Earth

REFERENCE:

Monitoring well locations from:
Remedial Investigation Report,
Figure 3, Shaw Environmental,
Jaunary 2015

Injection well locations from:
Pre-Design Investigation Report,
Figure 2, ARCADIS,
November 2017

Title: Site Plan and Monitoring Well Locations		
Location: Former Cleanerama Site Site No. 401056 253 Osborne Road Loudonville, New York		
Client: NYSDEC D009803 WA#47		
AECOM AECOM 40 British American Drive Latham, NY 12110	Drafter: CLS	Date: August 2023
	Drg. Size: 8.5 X11	Job No.: 60702147
FIGURE 2		



LEGEND

- MW-9R Monitoring Well Location (Shaw)
- OS-12 Monitoring Well Location (CPI)
- MW-7 Monitoring Well Location (Shaw) well paved over or could not be located
- OS-11 Monitoring Well Location (CPI) well paved over or could not be located
- IW-1 Injection Well Location (ARCADIS)
- Approximate Direction of Groundwater Flow
- 300 Approximate Groundwater Elevation Contour (Dashed where inferred)
- [313.50] Groundwater Elevation
- NR Not-Recorded. (Well could not be located or well elevation not available)

NOTES

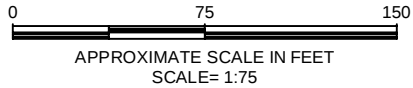
All locations and scale are approximate.
Contour Interval = 5 Feet
Groundwater Elevation Gauged 6/07/2023

REFERENCE

Monitoring well locations from:
Remedial Investigation Report,
Figure 3, Shaw Environmental,
January 2015

Injection well locations from:
Pre-Design Investigation Report,
Figure 2, ARCADIS,
November 2017

Google Maps August 2023 Basemap

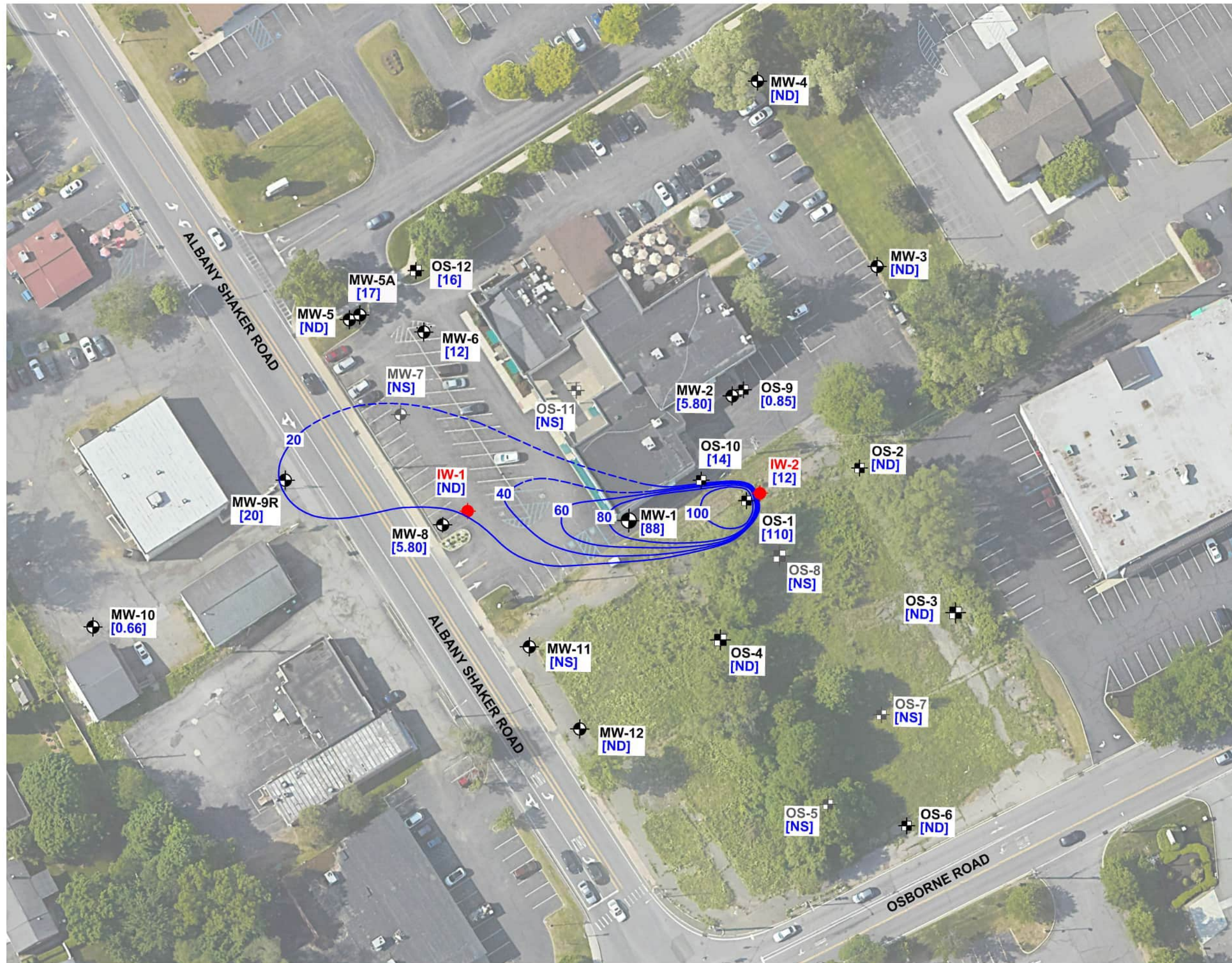


Title: Groundwater Contour Map
June 7, 2023

Location: Former Cleanerama Site
Site No. 401056
253 Osborne Road
Loudonville, New York

Client: NYSDEC
D009803 WA#47

AECOM AECOM 40 British American Drive Latham, NY 12110	Drafter: CLS	Date: December 2023
	Drg. Size: 11 x 17	Job No.: 60702147
	FIGURE 3	



LEGEND

- MW-9R Monitoring Well Location (Shaw)
- OS-12 Monitoring Well Location (CPI)
- MW-7 Monitoring Well Location (Shaw) well paved over or could not be located.
- OS-11 Monitoring Well Location (CPI) well paved over or could not be located.
- IW-1 Injection Well Location (ARCADIS)
- 40 Approximate PCE Isoconcentration Contour (Dashed where inferred)
- [5.80] PCE Concentration (µg/L)
- ND Non-Detect
- NS Not Sampled. Well could not be located.

NOTES

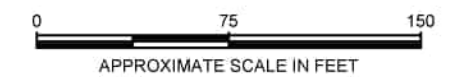
All locations and scale are approximate.

REFERENCE

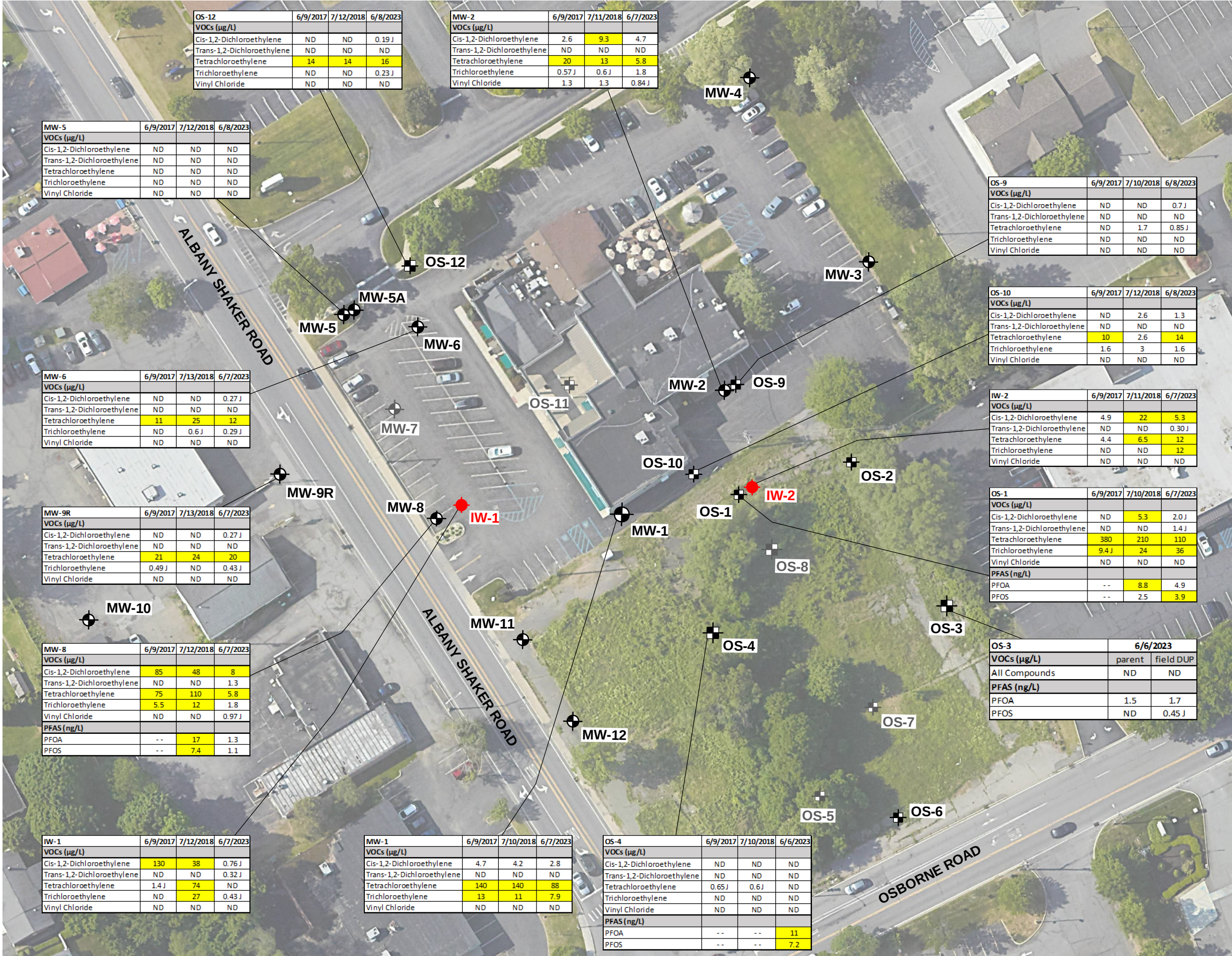
Monitoring well locations from:
Remedial Investigation Report,
Figure 3, Shaw Environmental,
January 2015

Injection well locations from:
Pre-Design Investigation Report,
Figure 2, ARCADIS,
November 2017

Google Maps August 2023 Basemap



Title:	PCE Isoconcentration Contour Map June 2023 Groundwater Sample Results		
	Former Cleanerama Site Site No. 401056 253 Osborne Road Loudonville, New York		
Location:			
Client:	NYSDEC D009803 WA#47		
AECOM 40 British American Drive Latham, NY 12110	Drafter: CLS	Date: September 2023	
	Drg. Size: 11 x 17	Job No.: 60702147	
FIGURE 4			



LEGEND

- MW-9R Monitoring Well Location (Shaw)
- OS-12 Monitoring Well Location (CPI)
- MW-7 Monitoring Well Location (Shaw) well paved over or could not be located.
- OS-11 Monitoring Well Location (CPI) well paved over or could not be located.
- IW-1 Injection Well Location (ARCADIS)
- ND Non-Detect

NOTES

All locations and scale are approximate.

Volatile Organic Compounds (VOCs) results are in micrograms per liter (µg/L)

Per and Polyfluoroalkyl Substances (PFAS) results are in nanograms per liter (ng/L)

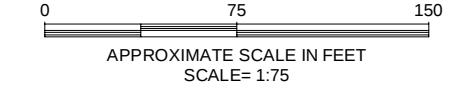
Yellow shading indicates result exceeded NYS Ambient Water Quality Standard

REFERENCE

Monitoring well locations from: Remedial Investigation Report, Figure 3, Shaw Environmental, January 2015

Injection well locations from: Pre-Design Investigation Report, Figure 2, ARCADIS, November 2017

Google Maps August 2023 Basemap



Title: Groundwater Analytical Results Summary 2017-2023

Location: Former Cleanerama Site
Site No. 401056
253 Osborne Road
Loudonville, New York

Client: NYSDEC
D009803 WA#47

AECOM
AECOM
40 British American Drive
Latham, NY 12110

Drafter: CLS
Date: June 2024

Drg. Size: 11 x 17
Job No.: 60702147

FIGURE 5

Tables

Table 1

Summary of Groundwater Elevations and Field Parameter Readings
June 2023 Groundwater Sampling Event

Former Cleanerama Site
Loudonville, New York
Site #401056

Well ID	Date Sampled	Top of PVC Casing*	Total Well Depth (feet)	Depth to Water (feet)	Groundwater Elevation (feet MSL)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	pH	Conductivity (mS/cm)	Specific Conductivity (mS/cm ^o)	ORP (mV)	Temp (°C)	Turbidity (NTU)
MW-1	6/7/2023	315.96	16.80	13.16	302.80	5.00	0.51	7.17	1.516	1.904	99.3	14.3	97.23
MW-2	6/7/2023	317.20	17.03	9.73	307.47	2.30	0.24	7.15	1.379	1.793	-19.4	12.9	7.41
MW-3	6/8/2023	321.27	15.83	14.36	306.91	30.20	3.24	7.04	2.200	2.945	141.8	11.8	0.04
MW-4	6/8/2023	321.00	25.70	18.90	302.10	76.60	8.37	7.09	1.260	1.712	144.0	11.3	0.43
MW-5	6/8/2023	315.12	40.02	26.38	288.74	18.90	1.95	7.40	1.873	2.401	97.8	13.4	23.45
MW-5A	6/8/2023	315.00	34.95	25.97	289.03	58.00	5.98	7.34	2.621	3.365	113.6	13.4	1.73
MW-6	6/7/2023	314.75	34.81	25.10	289.65	30.70	3.10	7.38	1.860	2.347	112.7	14.1	4.21
MW-8	6/7/2023	313.52	37.25	25.83	287.69	2.90	0.28	7.23	2.280	2.823	18.0	15	8.59
MW-9R	6/7/2023	313.48	40.25	27.19	286.29	44.50	4.50	7.30	1.650	2.052	136.9	14.5	6.57
MW-10	6/8/2023	301.30	38.45	18.65	282.65	2.60	0.26	7.36	1.566	1.981	-114.8	14.1	18.27
MW-11	--	N/A	21.50	Dry	--	--	--	--	--	--	--	--	--
MW-12	6/6/2023	315.26	11.70	8.99	306.27	41.20	4.24	6.85	1.770	2.214	144.3	14.7	5.75
OS-1	6/7/2023	318.52	12.47	9.54	308.98	11.60	1.26	7.03	0.840	1.124	65.3	11.6	0.51
OS-2	6/6/2023	321.75	10.59	9.91	311.84	66.60	7.00	6.85	1.350	1.741	44.2	13.3	0.00
OS-3	6/6/2023	N/A	16.94	6.39	--	20.80	2.24	7.01	1.220	1.604	140.5	12.5	25.84
OS-4	6/6/2023	317.45	12.00	5.98	311.47	2.50	0.27	6.93	1.400	1.949	137.6	10.3	2.00
OS-6	6/6/2023	323.44	14.01	5.14	318.30	2.40	0.25	6.82	2.850	3.644	69.0	13.7	4.39
OS-9	6/8/2023	317.83	19.85	10.10	307.73	2.80	0.29	6.94	1.310	1.750	139.1	11.9	1.30
OS-10	6/8/2023	316.28	11.95	9.40	306.88	67.30	5.02	7.14	0.840	1.075	91.2	13.6	19.11
OS-12	6/8/2023	316.59	34.40	26.04	290.55	7.90	0.81	7.17	2.312	2.934	80.2	13.9	2.89
IW-1	6/7/2023	N/A	34.61	26.35	--	2.90	0.39	7.16	2.410	3.019	48.2	14.5	4.42
IW-2	6/7/2023	N/A	12.25	9.54	--	4.30	0.46	6.74	1.636	2.204	-85.6	11.8	20.19

Notes:

* Measuring point (top of PVC) elevations (NAVD 88) recorded by LaBerge Group of Albany, NY, August 1, 2011. Obtained from Shaw Environmental Final Site Characterization Report, February 2, 2012

N/A - Elevation not available.

Table 2

Summary of Groundwater Sample Analyses
June 2023 Groundwater Sampling Event

Former Cleanerama Site
Loudonville, New York
Site No. 401056

Well ID	Sample Parameters						
	VOCs ¹	Dissolved Gases ²	General Chemistry ³	TAL Metals ⁴	TPH ⁵	Dechlorinating Bacteria ⁶	PFAS ⁷
OS-1	X	X	--	--	X	X	X
OS-2	X	--	--	--	--	--	--
OS-3	X	--	--	--	--	--	X
OS-4	X	X	X ⁸	X	X	--	X
OS-6	X	--	--	--	--	--	--
OS-9	X	X	X	X	X	--	--
OS-10	X	X	X	X	X	--	--
OS-12	X	X	X	X	X	--	--
MW-1	X	X	X	--	X	X	--
MW-2	X	X	X ⁸	X	X	X	--
MW-3	X	--	--	--	--	--	--
MW-4	X	--	--	--	--	--	--
MW-5	X	X	X	X	X	--	--
MW-5A	X	--	--	--	--	--	--
MW-6	X	X	X ⁸	X	X	X	--
MW-8	X	X	X ⁸	X	X	X	X
MW-9R	X	X	X ⁸	X	X	X	--
MW-10	X	X	X	X	X	--	--
MW-11	--	--	--	--	--	--	--
MW-12	X	--	--	--	--	--	--
IW-1	X	X	X ⁸	X	X	X	--
IW-2	X	--	--	--	--	X	--

1. VOCs - 8260 Full List

2. Dissolved Gases - Methane, ethane, ethene

3. General Chemistry - Chloride, nitrate, sulfate, sulfide, TOC, alkalinity (total)

4. TAL Metals - Aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, silver, sodium, thallium, vanadium, zinc, mercury

5. Total Petroleum Hydrocarbons (TPH)

6. Dechlorinating bacteria and functional genes

7. PFAS by draft Method 1633

8. Sample not analyzed for nitrate due to limited sample volume

Summary of Groundwater Analytical Results - VOCs June 2023 Sampling Event

Former Cleanerama Site
Loudonville, New York
Site No. 401056

[illegible]

Notes:

¹ Results compared to the New York State Ambient Water Quality Standards (AWQS) and Guidance Values (GV) (TOGs 1.1.1)

NS - No standard or GV.

U - Compound analyzed for but not detected at the associated laboratory detection limit

J - Estimated concentration for compound detected below the reporting limit

BOLD font indicates compound concentrations detected above at or above the reported detection limit

Shaded cells indicate exceedance of AWQS or GV

µg/L - micrograms per liter

² - Field Duplicate Sample

Table 3

Summary of Groundwater Analytical Results - VOCs
June 2023 Sampling Event

Former Cleanerama Site
Loudonville, New York
Site No. 401056

Well ID Sample ID	AWQS or GV ¹	MW-9R		MW-10		MW-12		OS-1		OS-2		OS-3				OS-4		OS-6		OS-9		OS-10		OS-12	
		MW-9R-060723		MW-10-060823		MW-12-060623		OS-1-060723		OS-2-060623		OS-3-060623		DUP-1-060623 ²		OS-4-060623		OS-6-060623		OS-9-060823		OS-10-060823		OS-12-060823	
Date Sampled		6/7/2023		6/8/2023		6/6/2023		6/7/2023		6/6/2023		6/6/2023		6/6/2023		6/6/2023		6/6/2023		6/8/2023		6/8/2023		6/8/2023	
Analyte (µg/L)																									
Acetone	50	2.0	U	2.0	U	2.0	U	4.0	UJ	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	6.2	J	2.0	U
Benzene	1	0.18	U	0.18	U	0.18	U	0.37	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Bromochloromethane	5	0.28	U	0.28	U	0.28	U	0.57	UJ	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Bromodichloromethane	50	0.16	U	0.16	U	0.16	U	0.32	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
Bromoform	50	0.41	U	0.41	U	0.41	U	0.82	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U
Bromomethane	5	1.3	U	1.3	UJ	1.3	U	2.6	U	1.3	UJ	1.3	UJ	1.3	U	1.3	U	1.3	UJ	1.3	UJ	1.3	UJ	1.3	UJ
2-Butanone (MEK)	50	1.7	U	1.7	U	1.7	U	3.4	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Carbon Disulfide	60	1.6	U	1.6	U	1.6	U	3.1	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
Carbon Tetrachloride	5	0.16	U	0.16	U	0.16	U	0.33	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
Chlorobenzene	5	0.12	U	0.12	U	0.12	U	0.24	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
Chlorodibromomethane	50	0.20	U	0.20	U	0.20	U	0.40	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Chloroethane	5	0.34	U	0.34	U	0.34	UJ	0.68	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Chloroform	7	0.31	J	0.14	U	0.14	U	0.28	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.53	J
Chloromethane	NS	0.50	UJ	0.50	U	0.50	U	1.0	UJ	0.50	U	0.50	U	0.50	UJ	0.50	UJ	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	NS	1.8	U	1.8	U	1.8	U	3.5	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
1,2-Dibromo-3-chloropropane (DBCP)	0.04	0.85	U	0.85	UJ	0.85	U	1.7	U	0.85	UJ	0.85	UJ	0.85	U	0.85	U	0.85	UJ	0.85	UJ	0.85	UJ	0.85	UJ
1,2-Dibromoethane (EDB)	5	0.16	U	0.16	U	0.16	U	0.32	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
1,2-Dichlorobenzene	3	0.13	U	0.13	U	0.13	U	0.26	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
1,3-Dichlorobenzene	3	0.14	U	0.14	U	0.14	U	0.27	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,4-Dichlorobenzene	3	0.13	U	0.13	U	0.13	U	0.26	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
Dichlorodifluoromethane (Freon 12)	5	0.16	U	0.16	U	0.16	U	0.32	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
1,1-Dichloroethane	5	0.14	U	0.14	U	0.14	U	0.27	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dichloroethane	0.6	0.30	U	0.30	U	0.30	U	0.61	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
1,1-Dichloroethylene	5	0.14	U	0.14	U	0.14	U	0.28	UJ	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
cis-1,2-Dichloroethylene	5	0.27	J	0.14	U	0.14	U	2.0	J	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.70	J	1.3		0.19	J
trans-1,2-Dichloroethylene	5	0.17	U	0.17	U	0.17	U	1.40	J	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
1,2-Dichloropropane	1	0.19	U	0.19	U	0.19	U	0.39	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U
cis-1,3-Dichloropropene	0.4	0.16	U	0.16	U	0.16	U	0.33	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
trans-1,3-Dichloropropene	0.4	0.14	U	0.14	U	0.14	U	0.28	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,4-Dioxane	NS	18	U	18	U	18	U	36	U	18	U	18	U	18	U	18	U	18	U	18	U	18	U	18	U
Ethylbenzene	5	0.22	U	0.22	U	0.22	U	0.44	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
2-Hexanone (MBK)	50	1.2	UJ	1.2	U	1.2	UJ	2.4	U	1.2	U	1.2	U	1.2	UJ	1.2	UJ	1.2	U	1.2	U	1.2	U	1.2	U
Isopropylbenzene (Cumene)	5	0.15	U	0.15	U	0.15	U	0.30	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Methyl Acetate	NS	0.61	UJ	0.61	UJ	0.61	UJ	1.2	U	0.61	UJ	0.61	UJ	0.61	UJ	0.61	UJ	0.61	UJ	0.61	UJ	0.61	UJ	0.61	UJ
Methyl tert-Butyl Ether (MTBE)	10	0.17	U	0.17	U	0.17	U	0.34	U	0.17	U	0.17	U	0.17	U	0.51	J	0.17	U	0.17	U	0.17	U	0.17	U
Methyl Cyclohexane	NS	0.16	U	0.16	U	0.16	U	0.31	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
Methylene Chloride	5	0.18	U	0.18	U	0.18	U	0.35	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
4-Methyl-2-pentanone (MIBK)	NS	1.3	U	1.3	U	1.3	U	2.6	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Styrene	5	0.15	U	0.15	U	0.15	U	0.30	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,1,2,2-Tetrachloroethane	5	0.14	U	0.14	U	0.14	U	0.27	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Tetrachloroethylene	5	20		0.66	J	0.17	U	110		0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.85	J	14.0		16	U
Toluene	5	1.0	U	1.0	U	1.0	U	0.45	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2,3-Trichlorobenzene	5	0.34	U	0.34	U	0.34	U	0.68	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
1,2,4-Trichlorobenzene	5	0.30	U	0.30	U	0.30	U	0.60	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
1,1,1-Trichloroethane	5	0.15	U	0.15	U	0.15	U	0.30	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,1,2-Trichloroethane	1	0.19	U	0.19	U	0.19	U	0.38	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U
Trichloroethylene	5	0.43	J	0.17	U	0.17	U	36		0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	1.6		0.23	J
Trichlorofluoromethane (Freon 11)	5	0.15	U	0.15	U	0.15	U	0.31	UJ	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	0.21	U	0.21	U	0.21	U	0.42	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
Vinyl Chloride	2	0.24	U	0.24	U	0.24	U	0.47	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Xylenes (total)	NS	1.0	U	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Notes:

¹ Results compared to the New York State Ambient Water Quality Stan

NS - No standard or GV.

U - Compound analyzed for but not detected at the associated laborato

J - Estimated concentration for compound detected below the reporting

BOLD font indicates compound concentrations detected above at or ab

Shaded cells indicate exceedance of AWQS or GV

µg/L - micrograms per liter

² - Field Duplicate Sample

Table 4

Summary of Groundwater Analytical Results - TAL Metals
June 2023 Sampling Event

Former Cleanerama Site
Loudonville, New York
Site No. 401056

Well ID	IW-1		MW-2		MW-5		MW-6		MW-8		MW-9R		MW-10		OS-4		OS-9		OS-12	
Sample ID	IW-1-060723		IW-2-060723		MW-5-060823		MW-6-060723		MW-8-060723		MW-9R-060723		MW-10-060823		OS-4-060623		OS-9-060823		OS-12-060823	
Date Sampled	6/7/2023		6/7/2023		6/8/2023		6/7/2023		6/7/2023		6/7/2023		6/8/2023		6/6/2023		6/8/2023		6/8/2023	
Analyte (µg/L)																				
Antimony	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.26	J	0.22	U
Arsenic	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U
Barium	280		170		83		91		1000		94		83		130		120		110	
Beryllium	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Cadmium	0.063	U	0.12	J	0.063	U	0.063	U	0.063	U	0.063	U	0.063	U	0.19	J	0.12	J	0.064	J
Chromium	0.94	J	0.61	U	0.96	J	0.61	U	0.84	J	1.1		1.0		0.73	J	0.91	J	1.1	
Cobalt	0.15	J	3.4		1.2		0.47	J	0.33	J	0.21	J	0.59	J	0.96	J	1.3		0.56	J
Copper	1.4		1.6		5.3		0.79	J	1.0		0.81	J	3.3		0.93	J	4.3		6.2	
Lead	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.46	J	0.17	U	0.17	U	0.17	U
Manganese	240		5000		210		46.0		220		16.0		520		2100		590		44	
Nickel	2.4	J	6.1		7.6		2.3	J	2.3	J	1.8	U	7.0		2.7	J	8.3		9.1	
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Silver	0.064	U	0.064	U	0.064	U	0.064	U	0.064	U	0.064	U	0.064	U	0.080	J	0.064	U	0.064	U
Thallium	0.090	U	0.090	U	0.090	U	0.090	U	0.090	U	0.090	U	0.090	U	0.090	U	0.090	U	0.090	U
Vanadium	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Zinc	9.2	U	9.2	U	9.2	U	9.2	U	9.2	U	9.2	U	9.2	U	9.2	U	9.2	U	190	
Units (mg/L)																				
Aluminum	0.045	U	0.045	U	0.083		0.045	U	0.045	U	0.045	U	0.1		0.045	U	0.045	U	0.045	U
Calcium	160		140		120		130		160		130		140		140		140		140	
Iron	0.18		0.34		0.047	U	0.047	U	2.1		0.047	U	0.047	U	1.7		0.047	U	0.047	U
Magnesium	35		25.0000	25	29		30		33		28		36		20		24		29	
Mercury	0.00014	U	0.00014	U	0.00014	U	0.00014	U	0.00014	U	0.00014	U	0.00014	U	0.00014	U	0.00014	U	0.00014	U
Potassium	5.1		3.6		4.1		3.4		4.7		2.8		2.5		3.3		3.3		3.5	
Sodium	390		170		320		290		350		280		200		250		190		420	

Notes:

U - Not detected at the listed detection limit

Detected concentrations are in bold font

J - The analyte is an estimated quantity. Result is less than the reporting limit but greater than or equal to the method detection limit.

mg/L - milligrams per liter

µg/L - micrograms per liter

Table 5

Summary of Groundwater Analytical Results - General Chemistry and TPH
June 2023 Sampling Event

Former Cleanerama Site
Loudonville, New York
Site No. 401056

Well ID	IW-1		MW-2		MW-5		MW-6		MW-8		MW-9R		MW-10		OS-4		OS-9		OS-12	
Sample ID	IW-1-060723		MW-2-060723		MW-5-060823		MW-6-060723		MW-8-060723		MW-9R-060723		MW-10-060823		OS-4-060623		OS-9-060823		OS-12-060823	
Date Sampled	6/7/2023		6/7/2023		6/8/2023		6/7/2023		6/7/2023		6/7/2023		6/8/2023		6/6/2023		6/8/2023		6/8/2023	
Analyte (mg/L)																				
Ethane	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
Ethene	0.00031	U	0.00031	U	0.00031	U	0.00031	U	0.00031	U	0.00031	U	0.00031	U	0.00031	U	0.00031	U	0.00031	U
Methane	0.20		0.048		0.0012	U	0.0012	U	0.51		0.0012	U	0.24		130		0.0012	U	0.0012	U
Chloride	740		330		540		510		690		470		410		400		340		690	
Nitrate as N	NA		NA		1.0		NA		NA		NA		0.26		NA		0.22		1.2	
Sulfate	59		47		67		60		48		61		61		46		50.0		62	
Sulfide	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
Total Organic Carbon	0.58	J	31		31		1.0		0.56	J	0.56	U	17		73		5.1		1.2	
Total Petroleum Hydrocarbons	0.44	U	1.0	J	0.49	U	1.30	J	1.1	J	0.53	J	0.70	J	0.42	U	0.44	U	0.7	J
Alkalinity	290		310		300		270		260		290		270		360		300		300	

Notes:
U - Not detected at the listed detection limit
Detected concentrations are in bold font
J - The analyte is an estimated quantity.
ND - Not detected at the reporting limit (RL)
NA - Not Analyzed
mg/L - milligrams per liter
TPH - Total Petroleum Hydrocarbons

Table 6

Summary of Groundwater Analytical Results - Per- and Polyfluoroakyl Substances (PFAS)
June 2023 Sampling Event

Former Cleanerama Site
Loudonville, New York
Site No. 401056

Well ID Sample ID	AWQS or GV ¹	MW-8		OS-1		OS-3				OS-4	
		MW-8-060723		OS-1-060723		OS-3-060623		DUP-1-060623 ²		OS-4-060623	
Date Sampled		6/7/2023		6/7/2023		6/6/2023		6/6/2023		6/6/2023	
Analyte (ng/L)											
Perfluorobutanoic acid (PFBA)	--	2.1	J	4.0		4.8		5.2		14	J
Perfluoropentanoic acid (PFPeA)	--	0.94	J	3.7		3.5		3.7		3.8	
Perfluorohexanoic acid (PFHxA)	--	0.63	J	2.9		3.0		3.0		4.3	J
Perfluoroheptanoic acid (PFHpA)	--	0.38	J	3.6		1.8		1.9		2.4	
Perfluorooctanoic acid (PFOA)	6.7	1.3		4.9		1.5		1.7		11	J
Perfluorononanoic acid (PFNA)	--	0.19	U	0.24	J	0.18	U	0.18	U	0.18	U
Perfluorodecanoic acid (PFDA)	--	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U
Perfluoroundecanoic acid (PFUnA)	--	0.27	U	0.26	U	0.26	U	0.26	U	0.25	U
Perfluorododecanoic acid (PFDoA)	--	0.25	U	0.24	U	0.24	U	0.25	U	0.24	U
Perfluorotridecanoic acid (PFTriA/PFTrDA)	--	0.26	U	0.25	U	0.25	U	0.26	U	0.25	U
Perfluorotetradecanoic acid (PFTeDA)	--	0.24	U	0.24	U	0.23	U	0.24	U	0.23	U
Perfluorobutanesulfonic acid (PFBS)	--	0.62	J	1.0		2.6		3.0		7.2	J
Perfluoropentanesulfonic acid (PFPeS)	--	0.23	U	0.24	J	0.22	U	0.23	U	0.71	J
Perfluorohexanesulfonic acid (PFHxS)	--	0.32	J	1.1		0.72	J	0.73	J	3.7	
Perfluoroheptanesulfonic acid (PFHpS)	--	0.30	U	0.29	U	0.29	U	0.29	U	0.29	U
Perfluorooctanesulfonic acid (PFOS)	2.7	1.1		3.9		0.30	U	0.45	J	7.2	
Perfluorononanesulfonic acid (PFNS)	--	0.29	U	0.28	U	0.28	U	0.28	U	0.27	U
Perfluorodecanesulfonic acid (PFDS)	--	0.30	U	0.29	U	0.29	U	0.30	U	0.29	U
Perfluorododecanesulfonic acid (PFDoS)	--	0.26	U	0.25	U	0.25	U	0.25	U	0.25	U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	--	0.68	U	0.66	U	0.65	U	0.66	U	0.65	U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	--	0.96	U	0.93	U	0.93	U	0.94	U	0.92	U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	--	1.1	U	1.0	U	1.0	U	1.0	U	1.0	U
Perfluorooctanesulfonamide (PFOSA)	--	0.30	U	0.29	U	0.29	U	0.29	U	0.29	U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	--	0.40	U	0.39	U	0.39	U	0.40	U	0.39	U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	--	0.30	U	0.29	U	0.29	U	0.29	U	0.29	U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	0.43	U	0.41	U	0.41	U	0.42	U	0.41	U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	--	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	--	2.6	U	2.5	U	2.5	U	2.5	U	2.5	U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	--	2.4	U	2.3	U	2.3	U	2.3	U	2.3	U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	1.0	U	0.98	U	0.98	U	0.99	U	0.97	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	0.67	U	0.65	U	0.65	U	0.65	U	0.64	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic acid (9Cl-PF3ONS)	--	0.83	U	0.80	U	0.80	U	0.81	U	0.80	U
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic acid (11Cl-PF3OUdS)	--	0.94	U	0.91	U	0.91	U	0.92	U	0.90	U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	--	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	--	9.9	U	9.6	U	9.6	U	9.7	U	9.5	U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	--	8.6	U	8.3	U	8.3	U	8.4	U	8.2	U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	0.48	U	0.46	U	0.46	U	0.47	U	0.46	U
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	0.48	U	0.47	U	0.47	U	0.47	U	0.46	U
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	0.39	U	0.38	U	0.38	U	0.38	U	0.38	U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	0.84	U	0.81	U	0.81	U	0.82	U	0.81	U

Notes:

All analyses performed by USEPA Draft Method 1633

¹ Results compared to the New York State Ambient Water Quality Standards (AWQS) and Guidance Values (GV) (TOGs 1.1.1). " - " = No Standard or GV.

ng/L - nanograms per liter

U - Compound analyzed for but not detected at the associated laboratory detection limit

J - Estimated concentration for compound detected below the reporting limit

BOLD font indicates compound concentrations detected at or above the reported detection limit

Shaded cells indicate exceedance of AWQS or GV

² - Field Duplicate Sample

Table 7

Summary of Groundwater Analytical Results - Dechlorinating Bacteria
June 2023 Sampling Event

Former Cleanerama Site
Loudonville, New York
Site No. 401056

Well ID	OS-1	IW-1	IW-2	MW-1	MW-2	MW-6	MW-8	MW-9R
Sample ID	OS-1-060723	IW-1-060723	IW-1-060723	MW-1-060723	MW-2-060723	MW-6-060723	MW-8-060723	MW-9R-060723
Date Sampled	6/7/2023	6/7/2023	6/7/2023	6/7/2023	6/7/2023	6/7/2023	6/7/2023	6/7/2023
Analyte (gc/L)								
Dehalobacter spp. (DHb)	1090	816	<100	3160	153	992	25500	811
Dehalococcoides spp. (DHc)	1510000	280000	<100	30700	247000	62400	1550000	<100
Trichloroethene Reductase (tceA)	<100	4360	<100	<100	<100	<100	11600	<100
Vinyl Chloride Reductase (bvcA)	<100	199000	<100	<100	<100	<100	881000	<100
Vinyl Chloride Reductase (vcrA)	<100	447000	<100	<100	<100	<100	1880000	<100

Notes:
gc/L - gene copies per liter
< - Not detected at the listed detection limit
Detected concentrations are in bold font

Appendices

Appendix A

Monitoring Well Field Inspection and Redevelopment Logs

SITE NAME: Former Cleanerama

SITE ID: 40056
INSPECTOR: ASCOM
DATE/TIME: 05/17/2023
WELL ID: 05-5

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

ASW	
YES	NO

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT
(e.g. Gas station, salt pile, etc.):

REMARKS:

suspected
well was not located due to the fill that was placed
in the lot as well as the rubble and metal pieces
that was present in the suspected well location.

SITE NAME: Former Cleanerdama

SITE ID.: 421056
INSPECTOR: AECOM
DATE/TIME: 05/17/2023
WELL ID.: 05-7

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO

WELL COORDINATES? NYTM X NYTM Y

PDOP Reading from Trimble Pathfinder: Satellites:
GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

ASW	
YES	NO

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

REMARKS:

suspected

well was not located due to the fill that was placed in the lot as well as the rubble and metal pieces on the suspected well location.

Sketch

SITE NAME: Former Cleanwama

SITE ID: 401056
 INSPECTOR: AEcom
 DATE/TIME: 05/17/2023
 WELL ID: 058

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____
 GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

ASW	
YES	NO

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED.....

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE.....

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

REMARKS:

suspected
 Well was not located due to well that was placed in the lot as well as the rubble and metal pieces in the suspected well location ^{Sketch}

SITE NAME: Former Cleanerama

SITE ID: 401056
INSPECTOR: AScom
DATE/TIME: 05/17/2023
WELL ID: 05-11

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
	☒

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

ASW	
YES	NO

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED.....

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet).....

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT
(e.g. Gas station, salt pile, etc.):

REMARKS:

Well was not found due to the development of the grass area into a pavement area (suspect well was covered)
Sketch

SITE NAME: Former Cleanorama

SITE ID: 401056
 INSPECTOR: AECOM
 DATE/TIME: 05/17/2023
 WELL ID: IWH

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
 GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
☒	☒

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Metal

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 12"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☐	☒
☐	☒
☐	☒
☐	☒
☒	☐

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 34' 61"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 26' 41"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible in the front parking lot of the Plaza

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

On Pavement in the front parking lot of the Plaza

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

Liquid leakage by parked vehicles

REMARKS:

Plug is not present.

Sketch

SITE NAME: Former Cleanerama

SITE ID.: 401056
INSPECTOR: Aecom
DATE/TIME: 05/17/2023
WELL ID.: MW-8

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
☒	☒

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Aluminum

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☐
☐	☒
☐	☒
☐	☒
☒	☐

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 37' 2.5"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 26' 5.0"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE: N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible in Plaza Parking lot

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

On pavement in Plaza Parking lot

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

liquid leakage by the parked vehicles.

REMARKS:

IF Plug Present but not tightly Placed.

Sketch

SITE NAME: Former Cleanarama

SITE ID.: 42056
INSPECTOR: AECOM
DATE/TIME: 05/17/2023
WELL ID.: AW-6

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
☒	☒

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

ASW	
YES	NO
☒	☒
☐	☒
☐	☒

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (if applicable)

PROTECTIVE CASING MATERIAL TYPE: Aluminum

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☐
☐	☒
☐	☒
☐	☒
☒	☐

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 34' 8"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 25' 43"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible in the front parking lot of the Plaza

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

On Pavement in the front parking lot of the Plaza

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

liquid leakage from the parked vehicles

REMARKS:

IF Plug Present and Placed tightly in the well

Sketch

SITE NAME: Former Cleanenama

SITE ID.: 42056
INSPECTOR: AECOM
DATE/TIME: 05/17/2023
WELL ID.: MW-7

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
☐	☐

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

ASW	
YES	NO
☒	☐
☐	☒
☐	☒

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Aluminum (damaged)

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8.11

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☐	☒
☐	☒
☐	☒
☐	☒
☒	☐

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): N/A

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): N/A

MEASURE WELL DIAMETER (Inches): N/A

WELL CASING MATERIAL: N/A

PHYSICAL CONDITION OF VISIBLE WELL CASING: N/A

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible in the front parking lot of the Plaza.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on Pavement in the front parking lot of the Plaza

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

liquid leakage by the parked vehicles.

REMARKS: and casing

The well was full of Paving materials. Could not get access to well to inspect it.

Sketch

SITE NAME: Former Cleanerama

SITE ID.: 401056
 INSPECTOR: AECOM
 DATE/TIME: 05/17/2023
 WELL ID.: MW-1

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
 GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
☒	☒

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

ASW	
YES	NO
☒	☐
☐	☒
☐	☒

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Metal

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4.13

LOCK PRESENT? ☒

LOCK FUNCTIONAL? ☒

DID YOU REPLACE THE LOCK? ☒

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE? ☒

☒	☐
☐	☒
☐	☒
☐	☒
☒	☐

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 16' 80"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 13' 38"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible on the side alley of the Plaza.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on Pavement in the side alley of the Plaza.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

liquid leakage by the parked vehicles near by.

REMARKS:

Plug is Present and Placed tightly in the well.

Sketch

SITE NAME: Former Cleanorama

SITE ID: 421056
INSPECTOR: AECOM
DATE/TIME: 05/17/2023
WELL ID: 0540

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
☒	☒

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

ASW	
YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Metal

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☒
☒	☒
☒	☒
☒	☒
☒	☒

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 11'9.5"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 6'

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible in the side alley of the Plaza

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on pavement, on the side alley of the Plaza

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

liquid leakage of the parked cars nearby.

REMARKS:

TPing Present

Sketch

SITE NAME: Former Cleanwater

SITE ID: 401056
INSPECTOR: AECOM
DATE/TIME: 05/17/2023
WELL ID: MU-2

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
☒	☒

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Aluminum

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☒
☒	☒
☒	☒
☒	☒
☒	☒

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 17'03"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 9'52"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

accessible in the back parking lot of the Plaza

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on pavement in the back parking lot of the Plaza

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

liquid leakage from parked cars

REMARKS:

J Plug in the well but was not tightly placed.

Sketch

SITE NAME: Former Cleaners area

SITE ID.: 401056
INSPECTOR: ASCOM
DATE/TIME: 05/17/2023
WELL ID.: 05-9

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below) _____

YES	NO
☒	☐

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE? _____

YES	NO
☒	☒

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) _____

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☒	☐
☒	☐

SURFACE SEAL PRESENT? _____

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) _____

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) _____

PROTECTIVE CASING MATERIAL TYPE: Metal

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4"

LOCK PRESENT? _____

LOCK FUNCTIONAL? _____

DID YOU REPLACE THE LOCK? _____

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below) _____

WELL MEASURING POINT VISIBLE? _____

☒	☒
☒	☒
☒	☒
☒	☒
☒	☒

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 19' 85"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 10' 13"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE: N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible in the back parking lot of the Plaza.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on pavement in the back parking lot of the Plaza.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

liquid leakage from parked vehicles.

REMARKS:

IP plug present. Well cover was cracked. Well was full of parking sediments.

Sketch

SITE NAME: Former Cleanorama

SITE ID.: 401056
INSPECTOR: AECom
DATE/TIME: 05/17/2023
WELL ID.: IWI-2

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
☒	☒

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Steel Metal

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 10"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☒
☒	☒
☒	☒
☒	☒
☒	☒

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 12' 25"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 9' 26"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible, on a vegetated lot (Former Cleanorama) back

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on vegetated soil in the former Cleanorama lot.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Plug placed in well tight

Sketch

SITE NAME: Former Cleanorama

SITE ID.: 461056
 INSPECTOR: ASCOM
 DATE/TIME: 05/17/2023
 WELL ID.: 305-1

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A

GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Metal

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☒
☒	☒
☒	☒
☒	☒

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 12' 4.7"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 9' 2.9"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible, on the former Cleanorama lot

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on former Cleanorama lot (vegetated soil)

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

REMARKS:

TPing is present and tightly placed.
Cover missing one bolt

Sketch

SITE NAME: Former Cleanorama

SITE ID.: 401056
INSPECTOR: AECOM
DATE/TIME: 05/17/2023
WELL ID.: 05-2

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A

GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

ASW	
YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Metal

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☒
☐	☒
☐	☒
☐	☒
☒	☒

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 10'59"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 10'04"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessable, in the former Cleanorama lot (Vegetated)

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

On the former Cleanorama lot

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

J Plan well tightly placed and tubing were present

Sketch

SITE NAME:

Former Cleanorama

SITE ID.:

42056

INSPECTOR:

AECOM

DATE/TIME:

05/17/2023

WELL ID.:

05-3

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: MetalMEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☐	☒
☐	☒
☐	☒
☐	☒
☒	☐

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 16'94"MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 635"MEASURE WELL DIAMETER (Inches): 2"WELL CASING MATERIAL: PVCPHYSICAL CONDITION OF VISIBLE WELL CASING: GoodATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/APROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible, on former Cleanorama lot

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on former Cleanorama lot (veg started 5.1)

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

TPing is Present.

Sketch

SITE NAME: Former Cleanorama

SITE ID.: 401056
INSPECTOR: AECOM
DATE/TIME: 05/17/2023
WELL ID.: 05-6

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☒	☐
☐	☒
☐	☒

SURFACE SEAL PRESENT? Cracked

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: metal

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☐
☐	☒
☐	☒
☐	☒
☒	☐

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 14'01"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 4'95"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Access is available, on sidewalk of the former Cleanorama lot.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on Pavement of the sidewalk of the former Cleanorama lot

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Missing bolt from the cover.

Sketch

SITE NAME: Former Cleanroom

SITE ID: 401051
INSPECTOR: AGCam
DATE/TIME: 05/17/2023
WELL ID: AW-12

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A

GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Metall

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☒
☒	☒
☒	☒
☒	☒
☒	☒

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 11' 7.0"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 8' 8.1"

MEASURE WELL DIAMETER (Inches): 3"

WELL CASING MATERIAL: Pvc

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible, on south side walk of the former Cleanroom lot.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on pavement, in side walk of former Cleanroom lot.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Plug is present and placed tightly in well, tubing present.
Ant nest observed at the well protective casing.

Sketch

SITE NAME:

Former Cleanwater

SITE ID:

401056

INSPECTOR:

AScan

DATE/TIME:

05/17/2023

WELL ID:

MW-11

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/APDOP Reading from Trimble Pathfinder: N/A Satellites: N/A

GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: MetalMEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☒
☒	☒
☒	☒
☒	☒

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 21' 50"MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 20' 84"MEASURE WELL DIAMETER (Inches): 2"WELL CASING MATERIAL: PVCPHYSICAL CONDITION OF VISIBLE WELL CASING: GoodATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/APROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible, on side walk of the former Cleanwater lot

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on pavement, on side walk of the former Cleanwater lot

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Toping Present and Placed tightly

Sketch

SITE NAME: Former Cleanacama

SITE ID.: 401056
 INSPECTOR: AECOM
 DATE/TIME: 05/17/2023
 WELL ID.: AAW-5

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
 GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Alum/Quartz

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

☒	☐
☐	☒
☐	☒
☐	☒
☒	☐

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 240'02"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 26'32"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible - on the grass of the sidewalk of the Plaza

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on grass of the sidewalk of the Plaza

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

grass for fertilizer

REMARKS:

Flag present.

Sketch

SITE NAME: Former Cleaners

SITE ID: 401056
INSPECTOR: AECAM
DATE/TIME: 05/17/2023
WELL ID: MW-5A

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Aluminum

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☒
☐	☒
☐	☒
☐	☒
☒	☐

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 34'95"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 26'30"

MEASURE WELL DIAMETER (Inches): 8"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible, on grass of the plaza side walk

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on grass of the plaza side walk

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

grass fertilizers

REMARKS:

Trailer Present • Tanker Truck is Present

Sketch

SITE NAME: Former Cleanorama

SITE ID.: 421056
INSPECTOR: AECOM
DATE/TIME: 05/17/2023
WELL ID.: DS-12

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☐	☒
☐	☒
☐	☒

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: N/A

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☐	☒
☐	☒
☐	☒
☐	☒
☒	☐

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 34' 4"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 26' 0.1"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible. On grass is the Plaza Side walk grass

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

On grass in the side walk grass

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

Grass fertilizers.

REMARKS:

No plug. No protective casing. missing bolts from the cap.
Ant nest observed. Well was closed with gloves (nitrate).

It was not applicable to put a J Plug in. A Glove with a lock put on the well to prevent things from going in the well.

SITE NAME: Farmer Cleaners

SITE ID.: 401056
INSPECTOR: AECOM
DATE/TIME: 05/17/2023
WELL ID.: AW-4

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED.....N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Aluminum

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

☒	☐
☐	☒
☐	☒
☐	☒
☒	☐

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 25'7.0"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 19'02"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible, on the grass at the back parking lot of the plaza

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

On grass of the back parking lot of the plaza

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

Grass fertilizers.

REMARKS:

Plug and tubing are present.

Sketch

SITE NAME: Former Cleaners and

SITE ID.: 401056
INSPECTOR: AECOM
DATE/TIME: 05/17/2023
WELL ID.: AW-3

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A

GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☒	☐
☒	☒
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Aluminum

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 3"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☐
☐	☒
☐	☒
☐	☒
☒	☐

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 15' 83"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 14' 59"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible, on grass of the back parking lot of the Plaza

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on grass of the back parking lot of the plaza

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

grass fertilizers.

REMARKS:

surface seal is being lifted. J Plug is present

Sketch

SITE NAME: Former Cleanerama

SITE ID.: 401056
 INSPECTOR: AEcon
 DATE/TIME: 05/17/2023
 WELL ID.: AW-9R

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites:

GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

YES	NO
☐	☒
☐	☒
☐	☒

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Met

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☒
☒	☒
☒	☒
☒	☒
☒	☒

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 40'25"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 27'3"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessable, traffic might be an obstacle. on Pavement of the Department of Emergency medical services.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

On Pavement in the front of the medical Emergency Services.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

J Plug Present.

Sketch

SITE NAME: Former Cleanwater

SITE ID.: 401056
INSPECTOR: ABCorn
DATE/TIME: 05/18/2023
WELL ID.: MW-10

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: M.C.etal

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4"

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☒
☒	☒
☒	☒
☒	☒
☒	☒
☒	☒

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 38'45"

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 18'53"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PRC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessable, in the back parking lot of the Medical Emergency Services

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED

On Pavement in the back parking lot of the medical emergency services.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

liquid leakage from parked vehicle.

REMARKS:

benzene observed around the top of the well. Plug present. Tubing Present.

Sketch

SITE NAME: Farmer Clemmerama

SITE ID.: 401056
INSPECTOR: AECAM
DATE/TIME: 05/17/2023
WELL ID.: 05-4

MONITORING WELL FIELD INSPECTION LOG

05/17/2023

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X N/A NYTM Y N/A

PDOP Reading from Trimble Pathfinder: N/A Satellites: N/A
GPS Method (circle) Trimble And/Or Magellan

YES	NO
☒	☒

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

ASW	
YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: N/A

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE: Metal

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 8"

☒	☐
☐	☒
☐	☒
☐	☒
☒	☐

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 12'

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 5' 7.1"

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Access fairly accessible, in the back Clemmerama lot.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

on the former Clemmerama lot (vegetated)

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

No lid observed. ~~Access to well~~

Sketch

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.:

MW-1

PROJECT NO.: 60702147

STAFF: Steve Gray and Mohamed Ahmed

DATE(S): 05/23/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	16.71	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	13.10	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	0.0	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.02	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.0	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	0	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	0.6 Gal	6"	1.50
			0.75"	0.02

09:15

OR
V=0.0408 x (CASING DIAMETER)²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	0.6 Gal									
pH	7.14									
SPEC. COND. (umhos)	1716									
APPEARANCE	Clear/grey									
TEMPERATURE (°C)	17.0									
Turbidity	38									
ORP	36.24									

COMMENTS:

PID: Initial reading was 5.2, the crew stepped away
From the well until the reading decreased to 2.1.

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.: MW-2

PROJECT NO.: 60702147

STAFF: Steve Gray and Mohamed Ahmed

DATE(S): 05/24/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>16.90</u>	WELL ID.	1"	VOL. (GAL/FT)	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>9.35</u>	2"		0.17	
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	3"		0.38	
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	4"		0.66	
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	5"		1.04	
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	6"		1.50	
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>10</u>	0.75"		0.02	

OR
V=0.0408 x (CASING DIAMETER)²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)							
	1.25	Gal		2.5	Gal		3.75	Gal
pH	7.04			7.06			7.06	13.8
SPEC. COND. (umhos)	1716 1716			1585			1601	1610
APPEARANCE	Gray			cloudy/gray			cloudy/gray	Brown
TEMPERATURE (°C)	14.2			13.3			13.6	13.7
Turbidity	over range			over range			71.7	3.88
ORP	356.2			268.1			227.9 227.9	238.6

COMMENTS:

PID: Initial reading was high, crew exhausted the well until the reading went down to 2.8 PPM

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.:

MW-3

PROJECT NO.: 60702147

STAFF: Steve Gray and Mohamed Ahmed

DATE(S): 05/24/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	15.30	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	14.20	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	0.0	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.02	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.0	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	0	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	10	0.75"	0.02

OR
V=0.0408 x (CASING DIAMETER)²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	0.2	Gal		0.4	Gal		0.6	Gal		7.5	Gal
pH	6.97			7.01			7.04			7.10	
SPEC. COND. (umhos)	1380			2501			2498			2542	
APPEARANCE	Brown			Brown			Brown			Brown	
TEMPERATURE (°C)	14.4			12.2			12.0			12.8	
Turbidity	30.7			0.11			0.03			5.67	
ORP	326			325.6			326.6			336.2	

COMMENTS:

DID: 1.2 PPM
* Total casing and screen length increased by 0.35 ft.

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.: AW-4

PROJECT NO.: 60702147

STAFF: Steve Gray and Mohamed Ahmed

DATE(S): 05/23/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>25.39</u>	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>18.85</u>	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>10</u>	6"	1.50
			0.75"	0.02
			OR	
			V=0.0408 x (CASING DIAMETER) ²	

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)							
	1	Gal	2	Gal	3	Gal	4	Gal
pH	7.14		7.11		7.07		7.11	
SPEC. COND. (umhos)	1518		1645		1680		1848	
APPEARANCE	Brown matter		Brown matter		Brown matter		Brown matter	
TEMPERATURE (°C)	12.2		13.0		13.0		13.5	
Turbidity	over range		90.7		98.5		over range	
ORP	329.9		343.3		349.7		364	

COMMENTS:

PID: 0.0

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.: MW-5

PROJECT NO.: 60702147

STAFF: Steve Gray and Mohamed Ahmed

DATE(S): 05/25/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	40-10	WELL ID.	1"	VOL. (GAL/FT)	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	26.50	2"		0.17	
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	0.0	3"		0.38	
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.02	4"		0.66	
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.0	5"		1.04	
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	0	6"		1.50	
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	8	0.75"		0.02	

OR
V=0.0408 x (CASING DIAMETER)²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	2.25	GAL		4.5	GAL		6.75	GAL		
pH	7.25			7.26			7.37			
SPEC. COND. (umhos)	2003			2276			2223			
APPEARANCE	Grey			Grey			Grey Grey			
TEMPERATURE (°C)	14.6			14.5			14.5			
Turbidity	Very Turbid			Very Turbid			Very Turbid			
ORP	374.1			377			375.7			

COMMENTS:

PEL: 0.0 PPM
* Pesticide spraying observed near by the well

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama WELL NO.: MW-5A
 PROJECT NO.: 60702147
 STAFF: Steve Gray and Mohamed Ahmed
 DATE(S): 05/25/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>34.56</u>	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>25.91</u>	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>10</u>	6"	1.50
			0.75"	0.02
			OR V=0.0408 x (CASING DIAMETER) ²	

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)							
	1.5	Gal	3	Gal	4.5	Gal	9.0	Gal
pH	7.21		7.23		7.21		7.21	
SPEC. COND. (umhos)	2502		2619		2643		2701	
APPEARANCE	Brown		Brown		Brown		Brown	
TEMPERATURE (°C)	13.9		14.1		14.0		14.4	
Turbidity	very Turbid		Very Turbid		Very Turbid		Very Turbid	
ORP	377.8		380.5		283.3		381.1	

COMMENTS:

PID: 0.3 PPM
 * Pesticide spraying was observed close to the well.

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.:

MW-6

PROJECT NO.: 60702147

STAFF:

Steve Gray and Mohamed Ahmed

DATE(S):

05/24/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>34.70</u>	WELL ID.	1"	VOL. (GAL/FT)	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>25</u>	2"		0.17	
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	3"		0.38	
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	4"		0.66	
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	5"		1.04	
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	6"		1.50	
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>10</u>	0.75"		0.02	

OR
V=0.0408 x (CASING DIAMETER)³

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)							
	1.5 Gal		3 Gal		5 Gal		10 Gal	
pH	7.72		7.23		7.25		7.23	
SPEC. COND. (umhos)	1835		1984		2078		2116	
APPEARANCE	Black		Black/gray		Gray		Gray	
TEMPERATURE (°C)	15.1		14.6		14.7		14.7	
Turbidity	81.1 ntu		148.23 ntu		29.1 ntu		57.4 ntu	
ORP	364.3		360		352.4		351.1	

COMMENTS:

PID = 1.1 PPM

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.:

MW-8

PROJECT NO.: 60702147

STAFF:

Steve Gray and Mohamed Ahmed

DATE(S):

05/24/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>36.62</u>	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>25.35</u>	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #4)	=	<u>0</u>	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>12</u>	6"	1.50
			0.75"	0.02
			OR	
			V=0.0408 x (CASING DIAMETER) ²	

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)							
	2.0	Gal	4.0	Gal	6	Gal	9.5	Gal
pH	7.04		7.07		7.05		7.19	
SPEC. COND. (umhos)	1391		1472		1463		1902	
APPEARANCE	Dark brown		Dark brown / Gray		Grey		Black	
TEMPERATURE (°C)	15.5		15.1		15.1		15.4	
Turbidity	45.4		65.2		81.3		103.2	
ORP	221.9		182.7		175		156.8	

COMMENTS:

PID: High reading at the opening of the well then decreased to 2.6

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.:

MW-9 R

PROJECT NO.: 60702147

STAFF:

Steve Gray and Mohamed Ahmed

DATE(S):

05/25/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>40.25</u>	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>27.1</u>	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>10</u>	6"	1.50
			0.75"	0.02

OR
V=0.0408 x (CASING DIAMETER)²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)							
	2.25 Gal		4.5 Gal		6.75 Gal		9.5 Gal	
pH	7.24		7.29		7.31		7.30	
SPEC. COND. (umhos)	1704		1846		1938		1953	
APPEARANCE	red/brown		brown		brown		brown	
TEMPERATURE (°C)	15.7		15.4		14.9		14.8	
Turbidity	Very Turbid		Very Turbid		Very Turbid		Very Turbid	
ORP	355.8		367.5		364.6		365.5	

COMMENTS:

PID = 0.0 PPM

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama WELL NO.: MW-16
 PROJECT NO.: 60702147
 STAFF: Steve Gray and Mohamed Ahmed
 DATE(S): 05/25/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>38.25</u>	WELL ID.	1"	VOL. (GAL/FT)	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>18.60</u>		2"		0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>		3"		0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>		4"		0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>		5"		1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>		6"		1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>15</u>		0.75"		0.02
OR V=0.0408 x (CASING DIAMETER) ²						

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)							
	3.25 Gal		6.5 Gal		9.75 Gal		14.75 Gal	
pH	7.20		7.27		7.28		7.28	
SPEC. COND. (umhos)	1677		1784		1810		1791	
APPEARANCE	Grey		Grey		Grey		Grey	
TEMPERATURE (°C)	15.0		14.5		14.5		14.3	
Turbidity	Very Turbid		Very Turbid		Very Turbid		Very Turbid	
ORP	353.7		342.0		331.1		324	

COMMENTS:

PI 0.00 PPM
 *odor detected in the water. (sulfur)
 *

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama WELL NO.: MW-11

PROJECT NO.: 60702147

STAFF: Mohamed Ahmed and Steve Gray

DATE(S): 05/23/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>20.85</u>	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>20.83</u>	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>None</u>	6"	1.50
			0.75"	0.02
			OR	
			V=0.0408 x (CASING DIAMETER) ²	

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
pH	N/A									
SPEC. COND. (umhos)	N/A									
APPEARANCE	N/A									
TEMPERATURE (°C)	N/A									
Turbidity	N/A									
ORP	N/A									

COMMENTS:

PID: It started at 7.4 and then decreased to 3.1 PPM.

* Water level was too low the water was not able to recover any water.

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.:

MW-12

PROJECT NO.: 60702147

STAFF: Mohamed Ahmed and Steve Gray

DATE(S): 05/23/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	11.40	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	0.0	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.02	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.0	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #)	=	0	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	0.5 Gal	6"	1.50
			0.75"	0.02
			OR	
			V=0.0408 x (CASING DIAMETER) ²	

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	0.5 Gal										
pH	7.03										
SPEC. COND. (umhos)	1905										
APPEARANCE	orange-brown										
TEMPERATURE (°C)	15.7										
Turbidity	over range										
ORP	377										

COMMENTS:

PID = 0.0
 * Total casing and screen length stayed constant.
 * Tried Purging twice, second time got 2 Ft of water in the waterera tubing.

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama WELL NO.: 051
 PROJECT NO.: 60702147
 STAFF: Mohamed Ahmed
 DATE(S): 05/22/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>12</u>	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>9</u>	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>3.25</u>	6"	1.50
			-0.75"	0.02
			OR V=0.0408 x (CASING DIAMETER) ²	

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	<u>0.6</u>	<u>Gal</u>			<u>1.2</u>	<u>Gal</u>			<u>1.8</u>	<u>Gal</u>
pH	<u>6.98</u>				<u>6.98</u>				<u>7.02</u>	
SPEC. COND. (umhos)	<u>1427</u>				<u>1284</u>				<u>1185</u>	
APPEARANCE	<u>Grey/Turbid</u>				<u>Clear/gray</u>				<u>Clear</u>	<u>Grey matter</u>
TEMPERATURE (°C)	<u>13.7</u>				<u>12.6</u>				<u>13.0</u>	
Turbidity	<u>over range</u>				<u>60.5</u>				<u>59.8</u>	
ORP	<u>1583</u>				<u>167.7</u>				<u>174.3</u>	

COMMENTS:

PID = 1.8 PPM
Total casing and screen depth remain the same after
Purging

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.: 05-2

PROJECT NO.: 60702147

STAFF: Steve Gray and Mohamed Ahmed

DATE(S): 05/22/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	10.05	WELL ID.	1"	VOL. (GAL/FT)	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	09.55		2"		0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	0.0		3"		0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.02		4"		0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.0		5"		1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	0		6"		1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	1.5 Gal		0.75"		0.02

OR
V=0.0408 x (CASING DIAMETER)²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)													
	0.5	Gal				0.7	Gal				1.2	Gal		
pH	7.35					7.27					7.3			
SPEC. COND. (umhos)	1615					1355					1700			
APPEARANCE	dark brown with organic matter					Clear with organic matter					Clear w/iv organic matter.			
TEMPERATURE (°C)	12.7	°C				12.5					12.7			
Turbidity	10.5	NTU				7.6	NTU				6.33	NTU		
ORP	230	-3				209					167	.9		

COMMENTS:

PID reading is: 1.7 PPM

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.: 05-3

PROJECT NO.: 60702147

STAFF: Steve Gray and Mohamed Ahmed

DATE(S): 05/22/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>16.50</u>	WELL ID.	1"	VOL. (GAL/FT)	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>6.04</u>	2"		0.17	
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	3"		0.38	
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	4"		0.66	
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	5"		1.04	
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	6"		1.50	
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>10 Gal</u>	0.75"		0.02	

OR
V=0.0408 x (CASING DIAMETER)²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	2	Gal		4	Gal		6	Gal		10 Gal
pH	6.95			6.94			6.93			6.91
SPEC. COND. (umhos)	1507			1533			1554			1561
APPEARANCE	brown/dark			brown			brown			brown
TEMPERATURE (°C)	13			12.9			12.8			12.8
Turbidity	50.5 NTU			68.8 NTU			94.8			overrange
ORP	306.4			315.8			319.8			326.6

COMMENTS:

PID: 3.5 PPM

* After Purging Total casing and screen length increased to 16.58

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.: 05-4

PROJECT NO.: 60702147

STAFF: Steve Gray and Mohamed Ahmed

DATE(S): 05/23/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>11.55</u>	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>5.45</u>	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>6.0</u>	6"	1.50
			0.75"	0.02
			OR $V=0.0408 \times (\text{CASING DIAMETER})^2$	

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	1	Gal		2	Gal		3	Gal		5 Gal
pH	7.	07		6.	97		7.	03		7.00
SPEC. COND. (umhos)	17	57		19	53		18	44		1959
APPEARANCE	red brown			Clear			Clear			Clear
TEMPERATURE (°C)	12.	7		12.	3		11.	7		11.2
Turbidity	23.	6		37.	5		32			43.8
ORP	230.	2		194.	4		183.	0		190.7

COMMENTS:

PID: 0.0 PPM

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.:

0.5-6

PROJECT NO.: 60702147

STAFF: Steve Brady and Mohamed Ahmed

DATE(S): 05/22/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>13.3</u>	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>5.2</u>	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>6 Gal</u>	6"	1.50
			0.75"	0.02
			OR	
			V=0.0408 x (CASING DIAMETER) ²	

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	1.5	Gal		3	Gal		4.5	Gal		
pH	6.75			6.79			6.85			
SPEC. COND. (umhos)	1783			2429			2386			
APPEARANCE	Brown silty			clear			clear			
TEMPERATURE (°C)	14.5			14.4			13.39			
Turbidity	30.4			26.2			21.2			
ORP	161.9			170.2			178.1			

COMMENTS:

DID = 2.7 PPM

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama WELL NO.: 05-9

PROJECT NO.: 60702147

STAFF: Mohamed Ahmed and Steve Gray

DATE(S): 05/23/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>19.75</u>	WELL ID.	1"	VOL. (GAL/FT)	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>9.9</u>	2"		0.17	
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	3"		0.38	
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	4"		0.66	
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	5"		1.04	
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	6"		1.50	
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>8</u>	0.75"		0.02	
OR V=0.0408 x (CASING DIAMETER) ²						

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	1.75 Gal			3.5 Gal			5.25 Gal			
pH	7.03			6.96			6.99			
SPEC. COND. (umhos)	1596			1476			1400			
APPEARANCE	Black			Clear			Clear			
TEMPERATURE (°C)	14.2			12.9			12.9			
Turbidity	10.82 NTU			6.4 NTU			11.5 NTU			
ORP	259.9			283.8			295.2			

COMMENTS:

PID 10.0

Total casing and screen length is the same.

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.: DS-10

PROJECT NO.: 60702147

STAFF: Steve Gray and Mohamed Ahmed

DATE(S): 05/23/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>11.82</u>	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>9</u>	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>3.5 Gals</u>	6"	1.50
			0.75"	0.02
			OR $V=0.0408 \times (\text{CASING DIAMETER})^2$	

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)							
	0.5 Gal	1 Gal	1.5 Gal	2 Gal				
pH	7.17	7.66	7.34	7.53				
SPEC. COND. (umhos)	3523	796	815	1026				
APPEARANCE	black	black	black	black				
TEMPERATURE (°C)	15.9	19.4	20.0	21.3				
Turbidity	-0.51 NTU	-0.37 NTU	-0.37 NTU	-4.0 NTU				
ORP	133.6	232.5	283.0	289.6				

COMMENTS:

PID: 3.4 PPM

* The well was let to recharge for 15 mins, and ^{an} attempted to draw water conducted.

* Total casing and screen length increased by 30"

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.: 05-12

PROJECT NO.: 60702147

STAFF: Steve Gray and Mohamed Ahmed

DATE(S): 05/24/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>34.25</u>	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>2.6</u>	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #4)	=	<u>0</u>	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>10</u>	6"	1.50
			0.75"	0.02

OR
V=0.0408 x (CASING DIAMETER)²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	1.4	Gal		2.8	Gal		4.2	Gal		9	Gal
pH	7.06			7.12			7.15			7.14	
SPEC. COND. (umhos)	2514			2591			2656			2661	
APPEARANCE	Black			Gray			Gray			Gray	
TEMPERATURE (°C)	15.5 15.5			14.8			14.7			14.6	
Turbidity	86.3			142			19.3			0.53	NTU
ORP	368.1			352.5			350.9			352.0	

COMMENTS:

PID: Initial high reading, crew stepped away from well until the PID reading decreased to ~5 PPM
* Ant nest observed in the well

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.: TW-#1

PROJECT NO.: 60702147

STAFF: Steve Gray and Mohamed Ahmed

DATE(S): 05/24/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>34.01</u>	WELL ID.	VOL. (GAL/FT)
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>26.05</u>	1"	0.04
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>0.0</u>	2"	0.17
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.02</u>	3"	0.38
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.0</u>	4"	0.66
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	<u>0</u>	5"	1.04
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>12</u>	6"	1.50
			0.75"	0.02
			OR V=0.0408 x (CASING DIAMETER) ²	

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	1.4	Gal		2.2	Gal		4.2	Gal		9	Gal
pH	6.97			7.01			7.10			7.12	
SPEC. COND. (umhos)	1944			1756			1694			2075	
APPEARANCE	Black			Black			Black			Grey / dark brown	
TEMPERATURE (°C)	17.5			15.8			15.6			15.6 15.6	
Turbidity	-0.37			-0.40			-0.11			18.1	
ORP	123.3			125.8			137.5			134.7	

COMMENTS:

PID: High reading at the well opening, then reading decreased to 1.8 PPM.

*oil sheen observed at the initial pumping of the well

WELL DEVELOPMENT LOG

AECOM

PROJECT TITLE: WA47 Former Cleanerama

WELL NO.: IW-2

PROJECT NO.: 60702147

STAFF: Mohamed Ahmed and Steve Gray

DATE(S): 05/22/2023

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	11.80	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	6	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	0.0	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.02	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.) (#3 x #4)	=	0.0	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.) (#5 x #6)	=	0	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	1.5 Gal	0.75"	0.02

OR
V=0.0408 x (CASING DIAMETER)²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	1	Gal									
pH	6.62										
SPEC. COND. (umhos)	2218										
APPEARANCE	Grey										
TEMPERATURE (°C)	14.4										
Turbidity	783										
ORP	145.7										

COMMENTS:

PID: 0.8 Ppm

Appendix B

Groundwater Sampling Logs

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanorama

Monitoring Well Number:

MW-1

Date:

6/7/23

Samplers:

Chris French

Steve Gray Ahmed Mohamed

Sample Number:

MW-1-066723

QA/QC Collected?

-

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

16.80 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

13.16 feet

4. C = Column of Water in Casing:

3.64 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

0.57 gal

6. D2 = Pump Setting Depth (ft):

14.8 feet

7. C2 = Column of water in Pump/Tubing (ft):

- feet

8. Tubing Volume = $C2(0.005737088)$

- gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro Quattro & MicroTPW

Parameter

Units

Readings

Time	24 hr	1020	1025	1030	1035			
Water Level (0.33)	feet	13.61	14.68	15.23	16.15			
Volume Purged	gal	0	0.25	0.4	0.55			
Flow Rate	mL / min	76.80/55	155	120	120			
Turbidity (+/- 10%)	NTU	36.26	42.57	107.0	97.23			
Dissolved Oxygen (+/- 10%)	%	26.3	19.8	5.0	5.0			
Dissolved Oxygen (+/- 10%)	mg/L	2.64	1.99	0.51	0.51			
Eh / ORP (+/- 10)	MeV	106.7	101.7	99.6	99.3			
Specific Conductivity	mS/cm ^c	1.901	1.862	1.907	1.904			
Conductivity (+/- 3%)	mS/cm	1.520	1.519	1.519	1.516			
pH (+/- 0.1)	pH unit	7.31	7.14	7.16	7.17			
Temp (+/- 0.5)	C	14.5	15.3	14.3	14.3			
Color	Visual	clear	clear	clear	clear			
Odor	Olfactory	none	none	none	none			

Comments

Purge Start Time: 1017

Sample Time: 1635

Purged dry at 1038.

Sampled @ 1635 for VOC's & Dechlorinating Bacteria

Page 1 of 1

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

MW-2

Date:

6/7/23

Samplers:

Chris French

Steve Gray Ahmed Mohamed

Sample Number:

QA/QC Collected?

Purging / Sampling Method:

Water Pump Peristaltic/Low Flow

1. L = Total Well Depth:

17.03 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

9.73 feet

4. C = Column of Water in Casing:

7.3 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

1.19 gal

6. D2 = Pump Setting Depth (ft):

15 feet

7. C2 = Column of water in Pump/Tubing (ft):

- feet

8. Tubing Volume = $C2(0.005737088)$

- gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

SP

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro Quattro & MicroTPW

Parameter	Units	Readings						
Time	24 hr	0835	0840	0845	0850	0855	0900	0905
Water Level (0.33)	feet	9.73	9.97	10.01	10.05	10.05	10.05	10.05
Volume Purged	gal	0	0.125	0.25	0.5	0.75	0.95	1.15
Flow Rate	mL / min	150	150	150	150	150	150	150
Turbidity (+/- 10%)	NTU	28.24	31.74	35.28	33.61	20.04	16.69	11.72
Dissolved Oxygen (+/- 10%)	%	7.6	9.0	3.1	2.8	2.6	2.5	2.4
Dissolved Oxygen (+/- 10%)	mg/L	0.76	0.92	0.33	0.27	0.27	0.26	0.25
Eh / ORP (+/- 10)	MeV	124.1	114.5	97.8	97.60	53.0	26.0	2.6
Specific Conductivity	mS/cm	1.841	1.848	1.841	1.833	1.829	1.815	1.805
Conductivity (+/- 3%)	mS/cm	1.4	1.417	1.410	1.406	1.408	1.4034	1.387
pH (+/- 0.1)	pH unit	7.23	7.18	7.17	7.16	7.15	7.15	7.15
Temp (+/- 0.5)	C	14.0	12.8	12.8	12.8	12.9	12.9	12.9
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	None	None	None	None	None	None	None

Comments

Purge Start Time: 0832

Sample Time: 0930

Page 1 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

MW-2

Date:

6/7/23

Samplers:

Chris French

Steve Gray Ahmed Mohamed

Sample Number:

MW-2-060723

QA/QC Collected?

—

Purging / Sampling Method:

Water Pump Peristaltic/Low Flow

1. L = Total Well Depth:

17.03 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

9.73 feet

4. C = Column of Water in Casing:

7.3 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

1.17 gal

6. D2 = Pump Setting Depth (ft):

15 feet

7. C2 = Column of water in Pump/Tubing (ft):

— feet

8. Tubing Volume = $C2(0.005737088)$

— gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro Quattro & MicroTAN

Parameter

Units

Readings

Parameter	Units	0910	0915	0920	0925	0930		
Time	24 hr	0910	0915	0920	0925	0930		
Water Level (0.33)	feet	10.05	10.05	10.05	10.05			
Volume Purged	gal	1.3	1.5	1.7	1.9			
Flow Rate	mL / min	150	150	150	150			
Turbidity (+/- 10%)	NTU	7.37	8.43	7.59	7.41			
Dissolved Oxygen (+/- 10%)	%	2.3	2.4	2.3	2.3			
Dissolved Oxygen (+/- 10%)	mg/L	0.24	0.25	0.24	0.24			
Eh / ORP (+/- 10)	MeV	-8.8	-15.7	-18.1	-19.4			
Specific Conductivity	mS/cm ^c	1.802	1.800	1.795	1.793			
Conductivity (+/- 3%)	mS/cm	1.384	1.382	1.379	1.379			
pH (+/- 0.1)	pH unit	7.15	7.15	7.15	7.15			
Temp (+/- 0.5)	C	12.7	12.9	12.7	12.7			
Color	Visual	clear	clear	clear	clear			
Odor	Olfactory	none	none	none	none			

Comments

Purge Start Time: 0832

Sample Time: 0930

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanorama

Monitoring Well Number:

MW-3

Date:

06/08/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

MW-3060823

QA/QC Collected?

No

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

0062

1. L = Total Well Depth:

15.82 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

14.36 feet

4. C = Column of Water in Casing:

1.43 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

VSI 3510-1406 Turbidity meter, 3550-1141

Parameter

Units

Readings

Time	24 hr	0937	0942	0947	0952	0957	1002
Water Level (0.33)	feet	14.55	14.55	14.55	14.55	14.55	14.55
Volume Purged	gal	0.25	0.5	0.7	1.0	1.25	1.5
Flow Rate	mL / min	200	200	200	200	200	200
Turbidity (+/- 10%)	NTU	14.63	2.39	0.05	0.54	0.6	0.04
Dissolved Oxygen (+/- 10%)	%	29.5	28.0	28.3	30.2	30.1	30.2
Dissolved Oxygen (+/- 10%)	mg/L	3.20	2.98	3.03	3.21	3.25	3.24
Eh / ORP (+/- 10)	McV	147.0	143.0	142.3	142	141.9	141.8
Specific Conductivity	mS/cm ^c	2946	2971	2973	2967	2954	2945
Conductivity (+/- 3%)	mS/cm	2.21	2.22	2.23	2.22	2.21	2.20
pH (+/- 0.1)	pH unit	6.97	7.02	7.03	7.04	7.04	7.04
Temp (+/- 0.5)	C	11.9	11.8	11.8	11.8	11.8	11.8
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	No	No	No	No	No	No

Comments

Purge Start Time: 0935

Sample Time: 1006

Page 1 of 1

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanorama

Monitoring Well Number:

MW-4

Date:

06/08/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

MW-4060823

QA/QC Collected?

NO

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

25.7 feet

2. D = Riser Diameter (I.D.):

2.17 feet

3. W = Static Depth to Water (TOC):

18.92 feet

4. C = Column of Water in Casing:

6.8 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI, 3510-1406, Turbidity meter 3550-141

Parameter

Units

Readings

Time	24 hr	0848	0853	0858	0903	0908	0913
Water Level (0.33)	feet	18.51	19.10	19.10	19.10	19.10	19.10
Volume Purged	gal	0.25	0.6	1.25	1.6	1.9	2.25
Flow Rate	mL / min	300	300	300	300	300	300
Turbidity (+/- 10%)	NTU	2.41	2.41	1.64	1.808	1.1	0.43
Dissolved Oxygen (+/- 10%)	%	6.22	72.0	70.6	75.4	76.6	76.6
Dissolved Oxygen (+/- 10%)	mg/L	9.02	7.84	7.74	7.832	8.39	8.37
Eh / ORP (+/- 10)	MeV	142.3	143.7	143.8	144	144.1	144
Specific Conductivity	mS/cm ^c	1632	1703	1712	1730	1735	1712
Conductivity (+/- 3%)	mS/cm	1.20	1.26	1.26	1.27	1.28	1.26
pH (+/- 0.1)	pH unit	7.09	7.08	7.09	7.08	7.08	7.09
Temp (+/- 0.5)	C	11.2	11.2	11.2	11.2	11.3	11.3
Color	Visual	Clean	Clean	Clean	Clean	Clean	Clean
Odor	Olfactory	NO	NO	NO	NO	NO	NO

Comments

Purge Start Time: 0845

Sample Time: 0915

Page 1 of 1

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanorama

Monitoring Well Number:

MW-5

Date:

6/8/23

Samplers:

Chris French

Steve Gray Ahmed Mohamed

Sample Number:

MW-5-060823

QA/QC Collected?

Dep - 060823 (VOC's only)

Purging / Sampling Method:

Watera Pump/Peristaltic Low Flow

1. L = Total Well Depth:

40.02 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

26.38 feet

4. C = Column of Water in Casing:

13.64 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

2.22 gal

6. D2 = Pump Setting Depth (ft):

37.5 - 37.5 (COT)

7. C2 = Column of water in Pump/Tubing (ft):

- feet

8. Tubing Volume = $C2(0.005737088)$

- gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro Quattro & MicroTPLW

Parameter

Units

Readings

Parameter	Units	0838	0843	0848	0853	0858	0903	0908
Time	24 hr							
Water Level (0.33)	feet	26.39	26.60	26.65	26.72	26.80	26.92	26.94
Volume Purged	gal	0	0.2	0.4	0.6	0.75	1.05	1.3
Flow Rate	mL / min	125	125	125	170	170	200	200
Turbidity (+/- 10%)	NTU	245.3	213.1	77.26	63.79	49.77	41.13	35.59
Dissolved Oxygen (+/- 10%)	%	10.4	6.6	18.1	26.0	24.6	24.1	22.0
Dissolved Oxygen (+/- 10%)	mg/L	1.08	0.68	1.83	2.70	2.66	2.50	2.28
Eh / ORP (+/- 10)	MeV	95.7	99.8	101.3	102.5	102.9	100.0	101.2
Specific Conductivity	mS/cm ^c	2.404	2.407	2.416	2.448	2.466	2.497	2.491
Conductivity (+/- 3%)	mS/cm	1.861	1.867	1.876	1.897	1.915	1.902	1.903
pH (+/- 0.1)	pH unit	7.66	7.44	7.43	7.43	7.41	7.40	7.40
Temp (+/- 0.5)	C	13.2	13.2	13.3	13.3	13.3	13.3	13.4
Color	Visual	cloudy	cloudy	clear	clear	clear	clear	clear
Odor	Olfactory	none	none	none	none	none	none	none

Comments

Purge Start Time: 0835

Sample Time: 0923

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanorama

Monitoring Well Number:

MW-5

Date:

6/8/23

Samplers:

Chris French

~~Stere Gray~~ Ahmed Mohamed

Sample Number:

MW-5-060823

QA/QC Collected?

Urp-060823 (Vet's only)

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

40.02 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

26.38 feet

4. C = Column of Water in Casing:

13.64 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

2.27 gal

6. D2 = Pump Setting Depth (ft):

37.5 feet

7. C2 = Column of water in Pump/Tubing (ft):

- feet

8. Tubing Volume = $C2(0.005737088)$

- gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro Quattro & MicroTFL

Parameter

Units

Readings

Time	24 hr	0913	0918	0923			
Water Level (0.33)	feet	26.94	26.94	26.94			
Volume Purged	gal	1.5	1.75	2.05			
Flow Rate	mL / min	200	200	200			
Turbidity (+/- 10%)	NTU	23.70	25.39	23.45			
Dissolved Oxygen (+/- 10%)	%	20.4	19.5	18.9			
Dissolved Oxygen (+/- 10%)	mg/L	2.12	2.02	1.95			
Eh / ORP (+/- 10)	MeV	99.6	97.6	97.8			
Specific Conductivity	mS/cm°	2.431	2.412	2.401			
Conductivity (+/- 3%)	mS/cm	1.872	1.878	1.873			
pH (+/- 0.1)	pH unit	7.42	7.33	7.40			
Temp (+/- 0.5)	C	13.4	13.4	13.4			
Color	Visual	clear	clear	clear			
Odor	Olfactory	none	none	none			

Comments

Purge Start Time: 0835

Sample Time: 0923

Page 2 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: NYSDEC Cleanorama

Monitoring Well Number: MW-5A Date: 9/8/23

Samplers: Steve Gray, Ahmed Mohamed

Sample Number: MW-5A-060823 QA/QC Collected? MS/MSD (VOC's only)

Purging / Sampling Method: Water Pump, Peristaltic Low Flow

1. L = Total Well Depth: 39.95 feet

2. D = Riser Diameter (I.D.): 0.17 feet

3. W = Static Depth to Water (TOC): 25.97 feet

4. C = Column of Water in Casing: 8.98 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ 1.46 gal

6. D2 = Pump Setting Depth (ft): 32.5 feet

7. C2 = Column of water in Pump/Tubing (ft): - feet

8. Tubing Volume = $C2(0.005737088)$ - gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Pro Quattro & Micro TPLW

Parameter	Units	Readings							
Time	24 hr	1000	1005	1010	1015	1020	1025	1030	
Water Level (0.33)	feet	25.98	26.00	26.00	26.00	26.00	26.00	26.00	
Volume Purged	gal	0	0.125	0.3	0.45	0.65	0.85	1.05	
Flow Rate	mL / min	135	135	135	135	140	140	140	
Turbidity (+/- 10%)	NTU	16.27	6.15	4.96	2.03	2.34	2.54	1.73	
Dissolved Oxygen (+/- 10%)	%	81.1	62.8	60.1	58.9	59.1	58.1	58.0	
Dissolved Oxygen (+/- 10%)	mg/L	8.29	6.48	6.19	6.08	6.09	6.00	5.98	
Eh / ORP (+/- 10)	MeV	119.6	115.7	113.5	113.0	113.0	112.8	113.6	
Specific Conductivity	mS/cm ^c	3.338	3.347	3.358	3.352	3.350	3.347	3.365	
Conductivity (+/- 3%)	mS/cm	2.618	2.614	2.621	2.614	2.611	2.611	2.621	
pH (+/- 0.1)	pH unit	7.44	7.39	7.33	7.34	7.34	7.34	7.34	
Temp (+/- 0.5)	C	13.6	13.5	13.5	13.5	13.4	13.5	13.4	
Color	Visual	Clear	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	none	

Comments

Purge Start Time: 0957
Sample Time: 1030

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

MW-6

Date:

6/7/23

Samplers:

Chris French

~~Steve Gray~~ ~~Ahmed Mohamed~~

Sample Number:

MW-6-060723

QA/QC Collected?

—

Purging / Sampling Method:

Watera Pump Peristaltic Low Flow

1. L = Total Well Depth:

34.81 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

25.10 feet

4. C = Column of Water in Casing:

9.71 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

1.58 gal

6. D2 = Pump Setting Depth (ft):

32.3 feet

7. C2 = Column of water in Pump/Tubing (ft):

— feet

8. Tubing Volume = $C2(0.005737088)$

— gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro Quattro & MicroTFL

Parameter	Units	Readings							
Time	24 hr	1130	1135	1140	1145	1150	1155	1200	
Water Level (0.33)	feet	25.12	25.10	25.10	25.10	25.10	25.10	25.10	
Volume Purged	gal	0	0.2	0.5	0.7	0.75	1.15	1.35	
Flow Rate	mL / min	160	190	190	190	190	190	190	
Turbidity (+/- 10%)	NTU	38.74	19.74	12.18	7.32	6.49	4.89	2.37	
Dissolved Oxygen (+/- 10%)	%	50.6	30.5	30.4	33.4	33.7	38.6	29.1	
Dissolved Oxygen (+/- 10%)	mg/L	5.07	3.11	3.07	3.39	3.44	3.94	2.97	
Eh / ORP (+/- 10)	MeV	124.3	118.3	117.8	116.7	117.6	115.7	113.3	
Specific Conductivity	mS/cm ^c	2.278	2.274	2.327	2.336	2.349	2.358	2.344	
Conductivity (+/- 3%)	mS/cm	1.825	1.823	1.849	1.856	1.863	1.873	1.860	
pH (+/- 0.1)	pH unit	7.64	7.54	7.43	7.45	7.47	7.39	7.42	
Temp (+/- 0.5)	C	19.6	19.2	19.2	19.2	19.2	19.2	19.2	
Color	Visual	clear	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	none	

Comments

Purge Start Time: 1126

Sample Time: 1210

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

MW-6

Date:

6/7/23

Samplers:

Chris French

Steve Gray Ahmed Mohamed

Sample Number:

MW-6-060723

QA/QC Collected?

—

Purging / Sampling Method:

Water Pump Peristaltic/Low Flow

1. L = Total Well Depth:

34.81 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

25.10 feet

4. C = Column of Water in Casing:

9.71 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

1.58 gal

6. D2 = Pump Setting Depth (ft):

32.3 feet

7. C2 = Column of water in Pump/Tubing (ft):

— feet

8. Tubing Volume = $C2(0.005737088)$

— gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro Quattro & MicroTfW

Parameter

Units

Readings

Time	24 hr	1205	1210				
Water Level (0.33)	feet	25.10	25.10				
Volume Purged	gal	1.6	1.8				
Flow Rate	mL / min	190	190				
Turbidity (+/- 10%)	NTU	4.87	4.21				
Dissolved Oxygen (+/- 10%)	%	32.3	30.7				
Dissolved Oxygen (+/- 10%)	mg/L	3.29	3.10				
Eh / ORP (+/- 10)	MeV	112.2	112.7				
Specific Conductivity	mS/cm ^c	2.346	2.347				
Conductivity (+/- 3%)	mS/cm	1.858	1.860				
pH (+/- 0.1)	pH unit	7.41	7.38				
Temp (+/- 0.5)	C	19.2	19.1				
Color	Visual	clear	clear				
Odor	Olfactory	none	none				

Comments

Purge Start Time: 1126

Sample Time: 1210

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

MW-8

Date:

06/07/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

MW-8060723

QA/QC Collected?

NO

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

27.25 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

25.83 feet

4. C = Column of Water in Casing:

11.42 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI, 3510-1406, Turbidity meter 3550-114

Parameter

Units

Readings

Time	24 hr	1040	1045	1050	1055	1100	1105	1110
Water Level (0.33)	feet	25.90	25.90	25.90	25.90	25.90	25.90	25.90
Volume Purged	gal	0.125	0.35	0.5	0.75	1.0	1.4	1.7
Flow Rate	mL / min	200	200	200	200	200	200	200
Turbidity (+/- 10%)	NTU	70.67	26.85	15.96	11.87	14.99	8.29	8.59
Dissolved Oxygen (+/- 10%)	%	5.0	4.9	4.5	3.4	3.4	2.9	2.9
Dissolved Oxygen (+/- 10%)	mg/L	0.52	0.50	0.44	0.33	0.34	0.284	0.28
Eh / ORP (+/- 10)	MeV	46.0	35.0	29.2	24.4	21.9	19.6	18
Specific Conductivity	mS/cm ^c	3025	2956	2932	2890	2866	2840	2823
Conductivity (+/- 3%)	mS/cm	246	239	237	234	232	230	228
pH (+/- 0.1)	pH unit	7.09	7.28	7.21	7.19	7.28	7.23	7.23
Temp (+/- 0.5)	C	15.1	15.0	15.0	15.0	15.0	15.0	15.0
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	NO	NO	NO	NO	NO	NO	NO

Comments

Purge Start Time: 1039

Sample Time: 1115

Page 1 of 1

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: NYSDEC Cleanerama

Monitoring Well Number: MW-9R Date: 06/07/2023

Samplers: Steve Gray Ahmed Mohamed

Sample Number: MW-9R060723 QA/QC Collected? NO

Purging / Sampling Method: Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth: 40.25 feet
2. D = Riser Diameter (I.D.): 0.17 feet
3. W = Static Depth to Water (TOC): 27.19 feet
4. C = Column of Water in Casing: 13.06 feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. D2 = Pump Setting Depth (ft): feet
7. C2 = Column of water in Pump/Tubing (ft): feet
8. Tubing Volume = $C2(0.005737088)$ gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YST, 3510-1406, Turbidity meter 3550-1141

Parameter	Units	Readings							
Time	24 hr	<u>1258</u>	<u>1303</u>	<u>1308</u>	<u>1313</u>	<u>1318</u>	<u>1323</u>	<u>1328</u>	
Water Level (0.33)	feet	<u>27.25</u>	<u>27.25</u>	<u>27.25</u>	<u>27.25</u>	<u>27.25</u>	<u>27.25</u>	<u>27.25</u>	
Volume Purged	gal	<u>0.2</u>	<u>0.5</u>	<u>0.75</u>	<u>1.2</u>	<u>1.5</u>	<u>1.7</u>		
Flow Rate	mL / min	<u>300</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	
Turbidity (+/- 10%)	NTU	<u>29.31</u>	<u>26.21</u>	<u>17.81</u>	<u>12.92</u>	<u>8.48</u>	<u>7.68</u>	<u>6.57</u>	
Dissolved Oxygen (+/- 10%)	%	<u>22.5</u>	<u>34.0</u>	<u>36.4</u>	<u>41.5</u>	<u>43.3</u>	<u>43.7</u>	<u>44.5</u>	
Dissolved Oxygen (+/- 10%)	mg/L	<u>2.21</u>	<u>3.41</u>	<u>3.67</u>	<u>4.10</u>	<u>4.35</u>	<u>4.45</u>	<u>4.50</u>	
Eh / ORP (+/- 10)	MeV	<u>133.0</u>	<u>134.5</u>	<u>134.9</u>	<u>135.5</u>	<u>136.3</u>	<u>136.5</u>	<u>136.9</u>	
Specific Conductivity	mS/cm ^c	<u>2043</u>	<u>2014</u>	<u>2005</u>	<u>2025</u>	<u>2044</u>	<u>2049</u>	<u>2052</u>	
Conductivity (+/- 3%)	mS/cm	<u>1.65</u>	<u>1.61</u>	<u>1.61</u>	<u>1.62</u>	<u>1.64</u>	<u>1.64</u>	<u>1.65</u>	
pH (+/- 0.1)	pH unit	<u>7.25</u>	<u>7.34</u>	<u>7.30</u>	<u>7.31</u>	<u>7.29</u>	<u>7.30</u>	<u>7.30</u>	
Temp (+/- 0.5)	C	<u>14.8</u>	<u>14.7</u>	<u>14.6</u>	<u>14.7</u>	<u>14.7</u>	<u>14.5</u>	<u>14.5</u>	
Color	Visual	<u>Clean</u>	<u>Clean</u>	<u>Clean</u>	<u>Clean</u>	<u>Clean</u>	<u>Clean</u>	<u>Clean</u>	
Odor	Olfactory	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	

Comments

Purge Start Time: 1256
Sample Time: 1330

Page 1 of 1

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanorama

Monitoring Well Number:

AW-10 ~~060823~~ Date: 06/08/2023

Samplers:

Chris, Frank Steve Gray Ahmed Mohamed

Sample Number:

MW-10060823 QA/QC Collected? NO

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

38.45 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

18.65 feet

4. C = Column of Water in Casing:

17.8 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro Datalogger, MicroTRN

Parameter	Units	Readings							
Time	24 hr	1358	1403	1408	1413	1418	1423	1428	
Water Level (0.33)	feet	18.71	18.71	18.71	18.71	18.71	18.71	18.71	18.71
Volume Purged	gal	0.14	0.3	0.6	0.9	1.25	1.5	1.75	1.75
Flow Rate	mL / min	220	220	220	220	220	220	220	220
Turbidity (+/- 10%)	NTU	38.02	43.99	75.97	76.53	99.44	96.05	49.81	
Dissolved Oxygen (+/- 10%)	%	46.1	9.1	3.8	2.0	1.7	1.8	1.7	
Dissolved Oxygen (+/- 10%)	mg/L	4.71	0.96	0.38	0.21	0.17	0.18	0.17	
Eh / ORP (+/- 10)	MeV	9.0	-59.9	-76.6	-94.5	-101.3	-105.5	-107.9	
Specific Conductivity	mS/cm ^c	1704	1900	1946	1979	1978	1978	1978	
Conductivity (+/- 3%)	mS/cm	1.369	1.518	1.551	1.578	1.577	1.577	1.577	
pH (+/- 0.1)	pH unit	7.63	7.47	7.42	7.43	7.42	7.41	7.39	
Temp (+/- 0.5)	C	15.1	14.6	14.4	14.4	14.3	14.4	14.4	
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Odor	Olfactory	No	No	No	Yes	Yes	Yes	Clear	

Comments

Purge Start Time: 1354

Sample Time: 1503

*sul & w odor detected.

Page 1 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

AW-10

Date: 06/08/2023

Samplers:

Chris - French

Steve Gray - Ahmed Mohamed

Sample Number:

AW-10060823

QA/QC Collected? No

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Static Depth to Water (TOC):

4. C = Column of Water in Casing:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. D2 = Pump Setting Depth (ft):

7. C2 = Column of water in Pump/Tubing (ft):

8. Tubing Volume = $C2(0.005737088)$

10 feet
 10 feet
 10 feet
 10 feet
 10 feet
 10 feet
 10 feet
 10 feet

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

Sam

Parameter	Units	Readings							
Time	24 hr	1433	1438	1443	1448	1453	1458	1503	
Water Level (0.33)	feet	18.71	18.71	18.71	18.71	18.71	18.71	18.71	
Volume Purged	gal	2.0	2.5	2.5	2.75	3.0	3.25	3.5	
Flow Rate	mL / min	220	220	220	220	220	220	220	
Turbidity (+/- 10%)	NTU	37.71	34.76	28.31	23.20	18.32	18.98	18.27	
Dissolved Oxygen (+/- 10%)	%	1.9	1.8	2.4	2.0	1.9	2.3	2.6	
Dissolved Oxygen (+/- 10%)	mg/L	0.20	0.12	0.24	0.21	0.19	0.24	0.26	
Eh / ORP (+/- 10)	MeV	-109.1	-110	-110.6	-112.1	-113.4	-114.1	-114.8	
Specific Conductivity	mS/cm ^c	1.980	1.978	1.978	1.979	1.977	1.977	1.981	
Conductivity (+/- 3%)	mS/cm	1.575	1.570	1.570	1.570	1.566	1.564	1.566	
pH (+/- 0.1)	pH unit	7.38	7.38	7.37	7.37	7.36	7.35	7.36	
Temp (+/- 0.5)	C	14.3	14.2	14.2	14.2	14.1	14.1	14.1	
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Odor	Olfactory	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Comments

Purge Start Time: Sam

Sample Time: 1503

ASML for odor detected.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanorama

Monitoring Well Number:

NW-12

Date:

06/06/2023

Samplers:

~~Steve Gray~~

Steve Gray Ahmed Mohamed

Sample Number:

NW-12060623

QA/QC Collected?

No

Purging / Sampling Method:

Water Pump Peristaltic Low Flow

1. L = Total Well Depth:

11.70 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

9.99 feet

4. C = Column of Water in Casing:

2.71 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI 3510-1406 Turbidity Meter, 3550-1141

Parameter

Units

Readings

Time	24 hr	1118	1123	1128	1133			
Water Level (0.33)	feet	09.60	10.45	11.11				
Volume Purged	gal	0.12	0.2	0.36				
Flow Rate	mL / min	150	125	125				
Turbidity (+/- 10%)	NTU	0.46	4.87	4.25				
Dissolved Oxygen (+/- 10%)	%	42.8	39.3	41.2				
Dissolved Oxygen (+/- 10%)	mg/L	4.35	3.99	4.24				
Eh / ORP (+/- 10)	MeV	144.9	143.3	144.3				
Specific Conductivity	mS/cm ^c	2162	2167	2214				
Conductivity (+/- 3%)	mS/cm	1.72	1.75	1.77				
pH (+/- 0.1)	pH unit	6.83	6.84	6.85				
Temp (+/- 0.5)	C	14.2	14.9	14.7				
Color	Visual	Clear	Clear	Clear				
Odor	Olfactory	No	No	No				

Comments

Well went dry and recovery rate was low

Purge Start Time:

1117

Sample Time:

1449

* The water level at sampling time was 9.91

Page 1 of 1

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

05-1

Date:

06/07/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

05-1060723

QA/QC Collected?

yes, MS, MSD

Purging / Sampling Method:

Water Pump, Peristaltic Low Flow

1. L = Total Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Static Depth to Water (TOC):

4. C = Column of Water in Casing:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. D2 = Pump Setting Depth (ft):

7. C2 = Column of water in Pump/Tubing (ft):

8. Tubing Volume = $C2(0.005737088)$

12.47 feet
0.17 feet
09.54 feet
2.93 feet
gal
feet
feet
gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI, 3510-1406 Turbidity meter 3550-1141

Parameter	Units	Readings							
Time	24 hr	1433	1438	1443	1448	1453	1458	1503	
Water Level (0.33)	feet	9.59	9.59	9.59	9.59	9.59	9.59	9.59	
Volume Purged	gal	0.1	0.2	0.5	0.75	1.0	1.25	1.50	
Flow Rate	mL / min	250	125	125	175	175	200	200	
Turbidity (+/- 10%)	NTU	13.24	10.63	3.39	8.25	2.67	2.62	2.13	
Dissolved Oxygen (+/- 10%)	%	9.7	6.3	5.1	6.3	6.9	7.8	8.7	
Dissolved Oxygen (+/- 10%)	mg/L	1.12	0.67	0.56	0.64	0.75	0.81	0.94	
Eh / ORP (+/- 10)	MeV	90.5	80.3	63.2	55.1	54.2	58.4	60.6	
Specific Conductivity	mS/cm ^c	2239	2157	1927	1606	1380	1302	1237	
Conductivity (+/- 3%)	mS/cm	1.67	1.64	1.46	1.22	1.04	0.97	0.95	
pH (+/- 0.1)	pH unit	6.95	6.99	7.02	7.05	7.05	7.06	7.05	
Temp (+/- 0.5)	C	11.6	12.4	12.2	12.3	11.9	11.7	11.7	
Color	Visual	Clean	Clean	Clean	Clean	Clean	Clean	Clean	
Odor	Olfactory	No	No	No	No	No	No	No	

Comments

Purge Start Time: 1430
Sample Time: 1532

Page 1 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: NYSDEC Cleanerama

Monitoring Well Number: 05-1 Date: 06/07/2023

Samplers: Steve Gray Ahmed Mohamed

Sample Number: 05-10607223 QA/QC Collected?

Purging / Sampling Method: Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth: same feet
2. D = Riser Diameter (I.D.): feet
3. W = Static Depth to Water (TOC): feet
4. C = Column of Water in Casing: feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. D2 = Pump Setting Depth (ft): feet
7. C2 = Column of water in Pump/Tubing (ft): feet
8. Tubing Volume = $C2(0.005737088)$ gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using same

Parameter	Units	Readings						
Time	24 hr	1508	1513	1518	1523	1528		
Water Level (0.33)	feet	9.59	9.59	9.59	9.59	9.59		
Volume Purged	gal	1.75	2.0	2.25	2.5	2.75		
Flow Rate	mL / min	200	200	200	200	200		
Turbidity (+/- 10%)	NTU	1.21	0.74	0.86	0.62	0.51		
Dissolved Oxygen (+/- 10%)	%	9.5	10.6	12.7	11.5	11.6		
Dissolved Oxygen (+/- 10%)	mg/L	1.03	1.13	1.33	1.28	1.26		
Eh / ORP (+/- 10)	MeV	61.8	62.6	65.4	65.6	65.3		
Specific Conductivity	mS/cm ^c	1207	1164	1130	1145	1124		
Conductivity (+/- 3%)	mS/cm	0.90	0.87	0.84	0.85	0.84		
pH (+/- 0.1)	pH unit	7.04	7.06	7.03	7.03	7.03		
Temp (+/- 0.5)	C	11.6	11.7	11.6	11.6	11.6		
Color	Visual	Clear	Clear	Clear	Clear	Clear		
Odor	Olfactory	NO	NO	NO	NO	NO		

Comments

Purge Start Time: same

Sample Time:

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

05-2

Date:

06/06/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

05-2 060623

QA/QC Collected?

No

Purging / Sampling Method:

Water Pump, Peristaltic Low Flow

4000-1141

1. L = Total Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Static Depth to Water (TOC):

4. C = Column of Water in Casing:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. D2 = Pump Setting Depth (ft):

7. C2 = Column of water in Pump/Tubing (ft):

8. Tubing Volume = $C2(0.005737088)$

0.172 10.59 feet
~~69.00~~ feet
~~29.91~~ feet
~~10.68~~ feet
 gal
 feet
 feet
 gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-3510-1406, Turbidity meter 3550-1141

Parameter

Units

Readings

Time	24 hr	1011	1022	1027	1032	1037
Water Level (0.33)	feet	9.86	9.86	9.86	9.86	9.86
Volume Purged	gal	0.125	0.125	0.125	0.125	0.125
Flow Rate	mL / min	75	75	75	75	75
Turbidity (+/- 10%)	NTU	10.5	3.29	1.05	0.01	0.00
Dissolved Oxygen (+/- 10%)	%	52.2	6.6	63.3	64.7	65.2
Dissolved Oxygen (+/- 10%)	mg/L	5.45	6.33	6.57	6.63	6.79
Eh / ORP (+/- 10)	MeV	68.3	93.7	49.8	47.2	44.8
Specific Conductivity	mS/cm	1797	1767	1757	1749	1743
Conductivity (+/- 3%)	mS/cm	1.40	1.37	1.37	1.36	1.34
pH (+/- 0.1)	pH unit	6.83	6.83	6.85	6.84	6.83
Temp (+/- 0.5)	C	13.7	13.3	13.4	13.4	13.3
Color	Visual	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	No	No	No	No	No

Comments

Purge Start Time: 1011
 Sample Time: 1040

Page 1 of 1

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanorama

Monitoring Well Number:

05-3

Date:

06/06/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

05-3060623

QA/QC Collected?

Yes, PFA5 and No C Dup and blank

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Static Depth to Water (TOC):

4. C = Column of Water in Casing:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. D2 = Pump Setting Depth (ft):

7. C2 = Column of water in Pump/Tubing (ft):

8. Tubing Volume = $C2(0.005737088)$

10.59 feet
0.17 feet
6.34 feet
4.2 feet
gal
feet
feet
gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YST 3510-1406 Turbidity meter 3550-1141

Parameter

Units

Readings

Time	24 hr	1323	1328	1333	1338	1343	1348	1353
Water Level (0.33)	feet	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Volume Purged	gal	0.1	0.5	0.75	1.1	1.6	1.8	2.2
Flow Rate	mL / min	250	250	250	250	250	250	250
Turbidity (+/- 10%)	NTU	68.70	14.94	12.6	15.43	30.33	9.40	8.32
Dissolved Oxygen (+/- 10%)	%	7.7	9.4	12.9	19.4	21.7	21.7	21.7
Dissolved Oxygen (+/- 10%)	mg/L	0.83	0.96	1.36	2.08	2.33	2.22	2.23
Eh / ORP (+/- 10)	MeV	134.2	134	135	136.4	137.5	139	139.7
Specific Conductivity	mS/cm ^c	1658	1650	1648	1638	1637	1621	1616
Conductivity (+/- 3%)	mS/cm	1.29	1.27	1.25	1.26	1.25	1.24	1.24
pH (+/- 0.1)	pH unit	7.11	7.13	7.11	7.07	7.05	7.03	7.02
Temp (+/- 0.5)	C	13.4	13.0	12.8	12.8	12.7	12.7	12.6
Color	Visual	Cloudy	Clear	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	No	No	No	No	No	No	No

Comments

Purge Start Time: 1321
Sample Time: 1414

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

OS-3

Date:

06/06/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

OS-306062023

QA/QC Collected?

same

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

same feet

2. D = Riser Diameter (I.D.):

same feet

3. W = Static Depth to Water (TOC):

feet

4. C = Column of Water in Casing:

feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

same

Parameter	Units	Readings						
Time	24 hr	1358	1403	1408	1413			
Water Level (0.33)	feet	6.5	6.5	6.5	6.5			
Volume Purged	gal	2.5	2.75	3.15	3.5			
Flow Rate	mL / min	250	250	250	250			
Turbidity (+/- 10%)	NTU	6.09	23.7	24.07	25.84			
Dissolved Oxygen (+/- 10%)	%	21.0	20.1	21.1	20.8			
Dissolved Oxygen (+/- 10%)	mg/L	2.23	2.15	2.24	2.24			
Eh / ORP (+/- 10)	MeV	140.5	140.5	140.4	140.5			
Specific Conductivity	mS/cm ^c	1612	1612	1609	1604			
Conductivity (+/- 3%)	mS/cm	1.23	1.23	1.22	1.22			
pH (+/- 0.1)	pH unit	7.01	7.03	7.02	7.01			
Temp (+/- 0.5)	C	12.5	12.5	12.4	12.5			
Color	Visual	Clear	Clear	Clear	Clear			
Odor	Olfactory	No	No	No	No			

Comments

Purge Start Time: 1321

Sample Time: 1414

Page 2 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: NYSDEC Cleanerama

Monitoring Well Number: 05-4 Date: 06/06/2023

Samplers: Steve Gray Ahmed Mohamed

Sample Number: 05-40606023 QA/QC Collected? no

Purging / Sampling Method: Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth: 12 feet
2. D = Riser Diameter (I.D.): 0.17 feet
3. W = Static Depth to Water (TOC): 05.99 feet
4. C = Column of Water in Casing: 76.02 feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI 3510-1406 Turbidity meter, 3550-1140

Parameter	Units	Readings							
Time	24 hr	15.32	15.37	15.42	15.47	15.53	15.57		
Water Level (0.33)	feet	6.10	6.10	6.10	6.10	6.10	6.10		
Volume Purged	gal	0.125	0.5	0.75	1.125	1.5	2.00		
Flow Rate	mL / min	275	275	275	275	275	275		
Turbidity (+/- 10%)	NTU	48.22	34.63	6.44	2.33	1.48	2.0		
Dissolved Oxygen (+/- 10%)	%	12	5.1	3.8	3.0	2.6	2.5		
Dissolved Oxygen (+/- 10%)	mg/L	1.42	0.59	0.44	0.34	0.29	0.27		
Eh / ORP (+/- 10)	MeV	155	151.3	148.2	143.9	140.7	137.6		
Specific Conductivity	mS/cm ^c	1221	1432	1700	1859	1915	1949		
Conductivity (+/- 3%)	mS/cm	0.801	1.02	1.22	1.34	1.38	1.4		
pH (+/- 0.1)	pH unit	6.9	6.9	6.89	6.89	6.87	6.93		
Temp (+/- 0.5)	C	10.6	10.4	10.4	10.3	10.3	10.3		
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear		
Odor	Olfactory	No	No	No	No	No	No		

Comments

Purge Start Time: 1530

Sample Time:

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanorama

Monitoring Well Number:

05-6

Date:

06/06/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

05-6060623

QA/QC Collected?

Purging / Sampling Method:

Water Pump, Peristaltic Low Flow

1. L = Total Well Depth:

14.01 feet

2. D = Riser Diameter (I.D.):

2.17 feet

3. W = Static Depth to Water (TOC):

25.14 feet

4. C = Column of Water in Casing:

8.87 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI, 3510-1406, Turbidity meter 3550-1411

Parameter	Units	Readings							
Time	24 hr	1204	1209	1214	1219	1224	1229	1234	
Water Level (0.33)	feet	5.52	5.71	5.71	5.71	5.71	5.71	5.71	
Volume Purged	gal	0.25	0.35	0.5	0.75	0.9	1.12	1.4	
Flow Rate	mL / min	200	175	175	175	175	175	175	
Turbidity (+/- 10%)	NTU	266.0	44.44	29.05	23.94	16.96	8.91	7.44	
Dissolved Oxygen (+/- 10%)	%	5.4	3.7	9.7	4.4	3.7	3.3	3.1	
Dissolved Oxygen (+/- 10%)	mg/L	0.59	6.37	1.12	0.45	0.38	0.34	0.33	
Eh / ORP (+/- 10)	MeV	81.4	69	66.7	66.1	66.5	67.7	68.7	
Specific Conductivity	mS/cm ^c	3399	3405	3417	3433	3456	3474	3502	
Conductivity (+/- 3%)	mS/cm	2.64	2.66	2.67	2.69	2.71	2.73	2.76	
pH (+/- 0.1)	pH unit	6.82	6.84	6.84	6.84	6.83	6.83	6.82	
Temp (+/- 0.5)	C	13.3	13.5	13.6	13.6	13.7	13.8	13.7	
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Odor	Olfactory	No	No	No	No	No	No	No	

Comments

Purge Start Time: 1203

Sample Time:

Page 1 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

05-6 ~~116490~~

Date:

06/06/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

05-60606023

QA/QC Collected?

No

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

14.01 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

05.14 feet

4. C = Column of Water in Casing:

8.87 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

_____ gal

6. D2 = Pump Setting Depth (ft):

_____ feet

7. C2 = Column of water in Pump/Tubing (ft):

_____ feet

8. Tubing Volume = $C2(0.005737088)$

_____ gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

Same

Parameter

Units

Readings

Time	24 hr	<u>1239</u>	<u>1244</u>	<u>1249</u>			
Water Level (0.33)	feet	<u>5.71</u>	<u>5.71</u>	<u>5.71</u>			
Volume Purged	gal	<u>1.6</u>	<u>1.8</u>	<u>2</u>			
Flow Rate	mL / min	<u>175</u>	<u>175</u>	<u>175</u>			
Turbidity (+/- 10%)	NTU	<u>6.82</u>	<u>4.98</u>	<u>4.39</u>			
Dissolved Oxygen (+/- 10%)	%	<u>2.8</u>	<u>2.7</u>	<u>2.4</u>			
Dissolved Oxygen (+/- 10%)	mg/L	<u>0.26</u>	<u>0.28</u>	<u>0.25</u>			
Eh / ORP (+/- 10)	MeV	<u>69.5</u>	<u>69.5</u>	<u>69</u>			
Specific Conductivity	mS/cm ^c	<u>3584</u>	<u>3614</u>	<u>3644</u>			
Conductivity (+/- 3%)	mS/cm	<u>2.8</u>	<u>2.83</u>	<u>2.85</u>			
pH (+/- 0.1)	pH unit	<u>6.82</u>	<u>6.84</u>	<u>6.82</u>			
Temp (+/- 0.5)	C	<u>13.6</u>	<u>13.6</u>	<u>13.7</u>			
Color	Visual	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>			
Odor	Olfactory	<u>No</u>	<u>No</u>	<u>No</u>			

Comments

Purge Start Time: Same

Sample Time: 1249

Page 2 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

05-9

Date:

06/08/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

05-9060823

QA/QC Collected?

NO

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

19.83 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

10.110 feet

4. C = Column of Water in Casing:

4.43 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI 3510-1406, Turbidity meter, 3550-1141

Parameter	Units	Readings							
Time	24 hr	1042	1047	1052	1057	1102	1107	1112	
Water Level (0.33)	feet	10.50	10.50	10.50	10.50	10.50	10.50	10.50	
Volume Purged	gal	0.2	0.7	1.0	1.25	1.5	1.9	2.25	
Flow Rate	mL / min	250	250	250	250	250	250	250	
Turbidity (+/- 10%)	NTU	3.35	2.93	1.56	1.94	2.34	1.76	1.30	
Dissolved Oxygen (+/- 10%)	%	9.0	5.3	3.6	3.5	3.0	2.9	2.8	
Dissolved Oxygen (+/- 10%)	mg/L	1.2	0.58	0.39	0.38	0.31	0.31	0.29	0.29
Eh / ORP (+/- 10)	MeV	142.4	141.5	140.6	140.2	139.7	139.5	139.1	
Specific Conductivity	mS/cm ^c	1770	1763	1758	1756	1753	1752	1750	
Conductivity (+/- 3%)	mS/cm	1.33	1.32	1.32	1.32	1.31	1.31	1.31	
pH (+/- 0.1)	pH unit	6.93	6.94	6.94	6.94	6.94	6.93	6.94	
Temp (+/- 0.5)	C	12.1	11.9	11.9	11.9	11.9	11.9	11.9	
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Odor	Olfactory	No	No	No	No	No	No	No	

Comments

Purge Start Time: 1039

Sample Time: 1115

Page 1 of 1

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanorama

Monitoring Well Number:

05-10

Date:

06/08/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

05-10060823

QA/QC Collected?

NO

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

11.95 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

9.40 feet

4. C = Column of Water in Casing:

2.55 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI, 3510-1406, Turbidity meter, 3550-1141

Parameter

Units

Readings

Time	24 hr	1150	1155	1200			
Water Level (0.33)	feet	9.85	10.09	10.39			
Volume Purged	gal	0.1	0.5	0.65			
Flow Rate	mL / min	160	150	150			
Turbidity (+/- 10%)	NTU	34.19	36.27	19.11			
Dissolved Oxygen (+/- 10%)	%	6.4	5.9	6.73			
Dissolved Oxygen (+/- 10%)	mg/L	0.68	0.6	5.87			
Eh / ORP (+/- 10)	MeV	125.6	105.6	91.2			
Specific Conductivity	mS/cm ^c	852	905	1075			
Conductivity (+/- 3%)	mS/cm	0.66	0.7	0.84			
pH (+/- 0.1)	pH unit	6.97	7.02	7.14			
Temp (+/- 0.5)	C	13.4	13.2	13.6			
Color	Visual	Clear	Clear	Clear			
Odor	Olfactory	NO	NO	NO			

Comments

Purge Start Time: 1148

Sample Time: 1305

* Water level dropped to bottom in the well (dry), stopped to get recovery

Page 1 of 1

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

OS-12

Date:

6/8/23

Samplers:

Chris French

~~Steve Gray~~ Ahmed Mohamed

Sample Number:

OS-12-060823

QA/QC Collected?

—

Purging / Sampling Method:

Water Pump Peristaltic / Low Flow

1. L = Total Well Depth:

34.40 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

26.04 feet

4. C = Column of Water in Casing:

8.26 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

1.36 gal

6. D2 = Pump Setting Depth (ft):

32 feet

7. C2 = Column of water in Pump/Tubing (ft):

— feet

8. Tubing Volume = $C2(0.005737088)$

— gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSE Pro Analyzer & MicroTAN

Parameter	Units	1145	1150	1155	Readings	1205	1210	1215
Time	24 hr	2845	2850	1155	1200	1205	1210	1215
Water Level (0.33)	feet	26.04	26.10	26.10	26.10	26.10	26.10	26.10
Volume Purged	gal	0	0.15	0.3	0.5	0.75	1.0	1.25
Flow Rate	mL / min	150	150	200	200	200	200	200
Turbidity (+/- 10%)	NTU	23.41	26.60	19.19	11.98	8.81	5.93	4.27
Dissolved Oxygen (+/- 10%)	%	44.8	17.5	12.8	10.0	9.0	8.4	7.8
Dissolved Oxygen (+/- 10%)	mg/L	4.54	1.80	1.32	1.03	0.92	0.85	0.80
Eh / ORP (+/- 10)	MeV	110.7	112.2	108.0	96.7	80.3	71.1	70.8
Specific Conductivity	mS/cm	2.578	2.521	2.614	2.771	2.781	2.834	2.907
Conductivity (+/- 3%)	mS/cm	2.027	1.982	2.055	2.177	2.195	2.238	2.296
pH (+/- 0.1)	pH unit	7.48	7.37	7.33	7.29	7.31	7.26	7.24
Temp (+/- 0.5)	C	13.7	13.8	13.7	13.8	14.0	14.0	14.0
Color	Visual	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	none	none	none	none	none	none	none

Comments

Purge Start Time: 1135

Sample Time: 1225

Monitoring Well Purging/Sampling Form

Project Name and Number: NYSDEC Cleanerama

Monitoring Well Number: 05-12 Date: 6/8/23

Samplers: Chris French Steve Gray Ahmed Mohamed

Sample Number: 05-12-060823 QA/QC Collected? —

Purging / Sampling Method: Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth: 39.40 feet
2. D = Riser Diameter (I.D.): 0.17 feet
3. W = Static Depth to Water (TOC): 26.04 feet
4. C = Column of Water in Casing: 8.36 feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ 1.36 gal
6. D2 = Pump Setting Depth (ft): 32 feet
7. C2 = Column of water in Pump/Tubing (ft): — feet
8. Tubing Volume = $C2(0.005737088)$ — gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Pro Quattro & MicroTPW

Parameter	Units	Readings					
Time	24 hr	1220	1225				
Water Level (0.33)	feet	26.10	26.10				
Volume Purged	gal	1.5	1.75				
Flow Rate	mL / min	200	200				
Turbidity (+/- 10%)	NTU	4.31	2.89				
Dissolved Oxygen (+/- 10%)	%	7.8	7.9				
Dissolved Oxygen (+/- 10%)	mg/L	0.80	0.81				
Eh / ORP (+/- 10)	MeV	75.2	80.2				
Specific Conductivity	mS/cm ^c	2.924	2.934				
Conductivity (+/- 3%)	mS/cm	2.307	2.312				
pH (+/- 0.1)	pH unit	7.21	7.17				
Temp (+/- 0.5)	C	13.9	13.9				
Color	Visual	clear	clear				
Odor	Olfactory	none	none				

Comments

Purge Start Time: 1125
Sample Time: 1225

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

IW-1

Date:

06/07/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

IW-1060723

QA/QC Collected?

No

Purging / Sampling Method:

Water Pump Peristaltic/Low Flow

1. L = Total Well Depth:

34.5 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

26.35 feet

4. C = Column of Water in Casing:

8.15 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI 3510-1406, Turbidity meter 3550-1140

Parameter

Units

Readings

Time	24 hr	0856	0901	0906	0911	0916	0921	0926
Water Level (0.33)	feet	26.45	26.45	26.45	26.45	26.45	26.45	26.45
Volume Purged	gal	0.1	0.4	0.7	1.00	1.25	1.6	1.8
Flow Rate	mL / min	250	200	200	200	200	200	200
Turbidity (+/- 10%)	NTU	45.8	38.49	26.26	61.43	41.93	43.71	24.45
Dissolved Oxygen (+/- 10%)	%	13.8	7.2	32.7	21.8	14.5	10.6	7.2
Dissolved Oxygen (+/- 10%)	mg/L	1.41	0.76	3.35	2.20	1.49	1.10	0.78
Eh / ORP (+/- 10)	MeV	54.5	44.4	45.4	47.7	49.4	49.8	49.8
Specific Conductivity	mS/cm ^c	2970	2977	2978	2981	2980	2984	3003
Conductivity (+/- 3%)	mS/cm	2.37	2.37	2.38	2.38	2.38	2.39	2.40
pH (+/- 0.1)	pH unit	7.14	7.19	7.14	7.13	7.16	7.16	7.18
Temp (+/- 0.5)	C	14.4	14.5	14.4	14.4	14.4	14.4	14.5
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	No	No	No	No	No	No	No

Comments

Purge Start Time: 0855

Sample Time: 0951

Page 1 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

TW-1

Date:

06/07/2023

Samplers:

Steve Gray Ahmed Mohamed

Sample Number:

TW-106072023

QA/QC Collected?

No

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

same feet

2. D = Riser Diameter (I.D.):

feet

3. W = Static Depth to Water (TOC):

feet

4. C = Column of Water in Casing:

feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

same

Parameter

Units

Readings

Time	24 hr	0931	0936	0941	0946	0951		
Water Level (0.33)	feet	26.45	26.45	26.45	26.45	26.45		
Volume Purged	gal	2.1	2.3	2.6	3.0	3.25		
Flow Rate	mL / min	200	200	200	200	200		
Turbidity (+/- 10%)	NTU	16.49	9.95	8.61	5.86	4.42		
Dissolved Oxygen (+/- 10%)	%	5.2	4.0	3.5	3.1	2.9		
Dissolved Oxygen (+/- 10%)	mg/L	0.54	0.41	0.32	0.32	0.39		
Eh / ORP (+/- 10)	MeV	49.7	49.3	49.1	48.4	48.2		
Specific Conductivity	mS/cm ^c	3009	3009	3045	3020	3019		
Conductivity (+/- 3%)	mS/cm	2.40	2.41	2.41	2.41	2.41		
pH (+/- 0.1)	pH unit	7.15	7.16	7.17	7.17	7.16		
Temp (+/- 0.5)	C	14.5	14.5	14.4	14.5	14.5		
Color	Visual	Clear	Clear	Clear	Clear	Clear		
Odor	Olfactory	No	No	No	No	No		

Comments

Purge Start Time:

same

Sample Time:

0951

Page 2 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanorama

Monitoring Well Number:

IW-2

Date:

6/7/23

Samplers:

Chris French

Steve Gray Ahmed Mohamed

Sample Number:

IW-2

QA/QC Collected?

Purging / Sampling Method:

Water Pump, Peristaltic/Low Flow

1. L = Total Well Depth:

1225 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

7.54 feet

4. C = Column of Water in Casing:

2.71 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

0.44 gal

6. D2 = Pump Setting Depth (ft):

10.0 feet

7. C2 = Column of water in Pump/Tubing (ft):

- feet

8. Tubing Volume = $C2(0.005737088)$

- gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro Quattro & MicroTPW

Parameter

Units

Readings

Time	24 hr	1350	1355	1400	1405	1410	1415	1420
Water Level (0.33)	feet	9.54	10.4	10.61	10.76	10.88	11.01	11.14
Volume Purged	gal	0	0.12	0.3	0.5	0.65	0.75	1.0
Flow Rate	mL / min	140	140	110	110	110	110	110
Turbidity (+/- 10%)	NTU	37.28	93.64	15.86	14.57	13.93	17.62	21.39
Dissolved Oxygen (+/- 10%)	%	27.0	18.3	3.1	4.0	4.2	3.8	36.1
Dissolved Oxygen (+/- 10%)	mg/L	2.82	1.88	0.33	0.43	0.45	0.41	0.64
Eh / ORP (+/- 10)	MeV	-85.8	-69.1	-75.7	-80.4	-82.2	-83.1	-78.7
Specific Conductivity	mS/cm ^c	1.624	1.985	1.972	1.927	1.924	1.933	1.7382.321
Conductivity (+/- 3%)	mS/cm	1.236	1.533	1.51.990	1.457	1.448	1.454	1.738
pH (+/- 0.1)	pH unit	7.06	6.87	6.82	6.78	6.76	6.74	6.70
Temp (+/- 0.5)	C	12.5	12.2	12.3	12.2	12.0	12.0	11.9
Color	Visual	clear	cloudy	clear	clear	clear	clear	clear
Odor	Olfactory	none	none	none	none	none	none	none

Comments

Purge Start Time: 1348

Sample Time: 1600

1353 - Tubing lowered in Well.
Sampled @ 1600 for VOC's & Dechlorinating Bacteria

Page 1 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

NYSDEC Cleanerama

Monitoring Well Number:

IW-2

Date:

6/7/23

Samplers:

Chris French

Steve Gray Ahmed Mohamed

Sample Number:

IW-2-060723

QA/QC Collected?

—

Purging / Sampling Method:

Per Pump / Low flow

Water Pump, Peristaltic / Low Flow

1. L = Total Well Depth:

12.25 feet

2. D = Riser Diameter (I.D.):

0.17 feet

3. W = Static Depth to Water (TOC):

2.54 feet

4. C = Column of Water in Casing:

2.71 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

0.44 gal

6. D2 = Pump Setting Depth (ft):

10.0 feet

7. C2 = Column of water in Pump/Tubing (ft):

— feet

8. Tubing Volume = $C2(0.005737088)$

— gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YST Pro Quattro & MicroTPW

Parameter

Units

Readings

Time	24 hr	1425	1430	1435	1440	1445	1450	
Water Level (0.33)	feet	11.28	11.41	11.54	11.69	11.78		
Volume Purged	gal	1.15	1.25	1.35	1.5	1.6		
Flow Rate	mL / min	110	110	110	110	110		
Turbidity (+/- 10%)	NTU	18.06	22.58	19.24	17.2	20.17		
Dissolved Oxygen (+/- 10%)	%	3.4	2.8	2.5	3.7	4.3		
Dissolved Oxygen (+/- 10%)	mg/L	0.36	0.29	0.26	0.40	0.46		
Eh / ORP (+/- 10)	MeV	-85.3	-82.2	-89.8	-88.3	-85.6		
Specific Conductivity	mS/cm ^c	2.214	2.390	2.402	2.313	2.204		
Conductivity (+/- 3%)	mS/cm	1.657	1.788	1.798	1.727	1.636		
pH (+/- 0.1)	pH unit	6.75	6.6	6.74	6.74	6.74		
Temp (+/- 0.5)	C	11.9	11.8	11.9	11.8	11.8		
Color	Visual	clear	clear	clear	clear	clear		
Odor	Olfactory	none	none	none	none	none		

Comments

Purge Start Time: 1348

Sample Time: 1600

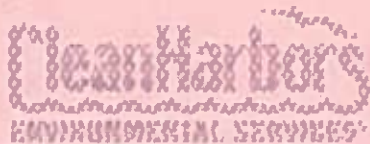
Purged dry @ 1449

Sampled @ 1600 for Vcol's & Dechlorinated Bacteria

Appendix C

Waste Disposal Manifest

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KYD0081402556	2. Page 1 of 1	3. Emergency Response Phone (800) 452-3719	4. Manifest Tracking Number 018711522 FLE				
5. Generator's Name and Mailing Address New York State Department of Environmental Conservation (NYSDEC) 625 Broadway 12th Floor Generator's Phone: (516) 402-0000 ATTN: David Gao		Generator's Site Address (if different than mailing address) 263 Osborne Road Colonia, NY 12211							
6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.		U.S. EPA ID Number MA0000000000							
7. Transporter 2 Company Name		U.S. EPA ID Number							
8. Designated Facility Name and Site Address Spring Grove Resource Recovery Inc. 4879 Spring Grove Avenue Cincinnati, OH 45232 Facility's Phone: (513) 361-5700		U.S. EPA ID Number OHD000816629							
9a. HM X	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 1. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (TETRACHLOROETHYLENE, TRICHLOROETHYLENE) 9. PG III		10. Containers No. Type 04 DM		11. Total Quantity 1800	12. Unit P	13. Waste Codes F001 B		
	2.								
	3.								
	4.								
	14. Special Handling Instructions and Additional Information 1. CR2633265 ERG#171		Contract retained by generator confirms agency						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offendor's Printed/Typed Name Blake Robinson Agent for NYDEC				Signature 		Month 12		Day 01	Year 23
16. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Blake Robinson		Signature 		Month 12		Day 01	Year 23		
Transporter 2 Printed/Typed Name		Signature		Month		Day	Year		
18. Discrepancy									
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection									
18b. Alternate Facility (or Generator)				Manifest Reference Number					
Facility's Phone:				U.S. EPA ID Number					
18c. Signature of Alternate Facility (or Generator)				Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H141		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name				Signature		Month Day Year			



Land Disposal Restriction
Notification Form

Page 1 of 1

Printed Date : Nov 22, 2023

MANIFEST INFORMATION

Generator : New York State Department of Environmental C

Address: 253 Osborne Road
Colonia, NY 12211

Manifest Tracking Info

018711522FLE

EPA ID #: NYD981492556

Sales Order No: 2306191924

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH2633265	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
F001	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
Tetrachloroethylene	N	Y	N

Certification

Applies to
Manifest Line
Items

Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.

1

Waste analysis data ~~is not available~~ is attached.

Signature :

Chemist Agent for NYDEC

Print Name

Blake R. Bisan Agent for NYDEC
12/01/23

Title :

Date :

Appendix D

Laboratory Analytical Reports

June 23, 2023

Walter Howard
AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110

Project Location: NY
Client Job Number:
Project Number: 60702147
Laboratory Work Order Number: 23F1274

Enclosed are results of analyses for samples as received by the laboratory on June 9, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

 AECOM Environment - Latham, NY
 40 British American Blvd.
 Latham, NY 12110
 ATTN: Walter Howard

REPORT DATE: 6/23/2023

PURCHASE ORDER NUMBER: 401056

PROJECT NUMBER: 60702147

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23F1274

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRIP BLANK	23F1274-01	Trip Blank Water		SW-846 8260D	
OS-2-060623	23F1274-02	Water		SW-846 8260D	
OS-6-060623	23F1274-03	Water		SW-846 8260D	
OS-3-060623	23F1274-04	Water		SW-846 8260D	
MW-12-060623	23F1274-05	Water		SW-846 8260D	
OS-4-060623	23F1274-06	Water		EPA 1664B	
				EPA 300.0	
				RSK175	
				SM 21-23 5310B	
				SM21-23 2320B	
				SM21-23 4500S-F	
				SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260D	
DUP1-060623	23F1274-07	Water		SW-846 8260D	
IW-1-060723	23F1274-08	Water		EPA 1664B	
				EPA 300.0	
				RSK175	
				SM 21-23 5310B	
				SM21-23 2320B	
				SM21-23 4500S-F	
				SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260D	
MW-8-060723	23F1274-09	Water		EPA 1664B	
				EPA 300.0	
				RSK175	
				SM 21-23 5310B	
				SM21-23 2320B	
				SM21-23 4500S-F	
				SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260D	
OS-1-060723	23F1274-10	Water		SW-846 8260D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110
ATTN: Walter Howard

REPORT DATE: 6/23/2023

PURCHASE ORDER NUMBER: 401056

PROJECT NUMBER: 60702147

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23F1274

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-9R-060723	23F1274-11	Water		EPA 1664B EPA 300.0 RSK175 SM 21-23 5310B SM21-23 2320B SM21-23 4500S-F SW-846 6010D SW-846 6020B SW-846 7470A SW-846 8260D	
MW-2-060723	23F1274-12	Water		EPA 1664B EPA 300.0 RSK175 SM 21-23 5310B SM21-23 2320B SM21-23 4500S-F SW-846 6010D SW-846 6020B SW-846 7470A SW-846 8260D	
MW-1-060723	23F1274-13	Water		SW-846 8260D	
MW-6-060723	23F1274-14	Water		EPA 1664B EPA 300.0 RSK175 SM 21-23 5310B SM21-23 2320B SM21-23 4500S-F SW-846 6010D SW-846 6020B SW-846 7470A SW-846 8260D	
IW-2-060723	23F1274-15	Water		SW-846 8260D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SM21-23 2320B**Qualifications:****PR-18**

Headspace present in sample container.

Analyte & Samples(s) Qualified:**Alkalinity to pH 4.5**

23F1274-06[OS-4-060623], 23F1274-08[IW-1-060723], 23F1274-09[MW-8-060723], 23F1274-11[MW-9R-060723], 23F1274-12[MW-2-060723], 23F1274-14[MW-6-060723]

SW-846 6020B**Qualifications:****MS-22**

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Silver**

B342964-MSD1

SW-846 8260D**Qualifications:****L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**2-Hexanone (MBK)**

23F1274-05[MW-12-060623], 23F1274-06[OS-4-060623], 23F1274-07[DUP1-060623], 23F1274-08[IW-1-060723], 23F1274-09[MW-8-060723], 23F1274-11[MW-9R-060723], 23F1274-12[MW-2-060723], 23F1274-14[MW-6-060723], 23F1274-15[IW-2-060723], B343051-BLK1, B343051-BS1, B343051-BSD1

Trichlorofluoromethane (Freon 11)

23F1274-10[OS-1-060723], B343729-BLK1, B343729-BS1, B343729-BSD1, B343729-MS1, B343729-MSD1, S089469-CCV1

L-06

Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:**Chloromethane**

B343051-BS1, B343051-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Trichlorofluoromethane (Freon 11)**

B343454-BSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.

Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

23F1274-10[OS-1-060723], B343729-MS1, B343729-MSD1

Acetone

23F1274-10[OS-1-060723], B343729-MS1, B343729-MSD1

Bromomethane

23F1274-10[OS-1-060723], B343729-MS1, B343729-MSD1

Chloromethane

23F1274-10[OS-1-060723], B343729-MS1, B343729-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Trichlorofluoromethane (Freon 11)**

B343729-MSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:
Bromochloromethane

B343729-MS1

Methyl Acetate

B343729-MSD1

Tetrachloroethylene

B343729-MS1

Trichloroethylene

B343729-MS1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:
Chloromethane

23F1274-13[MW-1-060723], B343454-BLK1, B343454-BS1, B343454-BSD1, S089353-CCV1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:
Chloromethane

23F1274-10[OS-1-060723], B343729-MS1, B343729-MSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

23F1274-10[OS-1-060723]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:
1,1-Dichloroethylene

23F1274-10[OS-1-060723], B343729-BLK1, B343729-BS1, B343729-BSD1, B343729-MS1, B343729-MSD1, S089469-CCV1

1,2-Dibromo-3-chloropropane (DBCP)

23F1274-01[TRIP BLANK], 23F1274-02[OS-2-060623], 23F1274-03[OS-6-060623], 23F1274-04[OS-3-060623], B343050-BLK1, B343050-BS1, B343050-BSD1, S089125-CCV1

2-Hexanone (MBK)

23F1274-05[MW-12-060623], 23F1274-06[OS-4-060623], 23F1274-07[DUP1-060623], 23F1274-08[IW-1-060723], 23F1274-09[MW-8-060723], 23F1274-11[MW-9R-060723], 23F1274-12[MW-2-060723], 23F1274-14[MW-6-060723], 23F1274-15[IW-2-060723], B343051-BLK1, B343051-BS1, B343051-BSD1, S089185-CCV1

Acetone

23F1274-10[OS-1-060723], 23F1274-13[MW-1-060723], B343454-BLK1, B343454-BS1, B343454-BSD1, B343729-BLK1, B343729-BS1, B343729-BSD1, B343729-MS1, B343729-MSD1, S089353-CCV1, S089469-CCV1

Chloromethane

23F1274-10[OS-1-060723], B343729-BLK1, B343729-BS1, B343729-BSD1, B343729-MS1, B343729-MSD1, S089469-CCV1

Methyl Acetate

23F1274-01[TRIP BLANK], 23F1274-02[OS-2-060623], 23F1274-03[OS-6-060623], 23F1274-04[OS-3-060623], 23F1274-05[MW-12-060623], 23F1274-06[OS-4-060623], 23F1274-07[DUP1-060623], 23F1274-08[IW-1-060723], 23F1274-09[MW-8-060723], 23F1274-11[MW-9R-060723], 23F1274-12[MW-2-060723], 23F1274-14[MW-6-060723], 23F1274-15[IW-2-060723], B343050-BLK1, B343050-BS1, B343050-BSD1, B343051-BLK1, B343051-BS1, B343051-BSD1, S089125-CCV1, S089185-CCV1

tert-Butyl Alcohol (TBA)

B343454-BLK1, B343454-BS1, B343454-BSD1, S089353-CCV1

Trichlorofluoromethane (Freon 11)

23F1274-10[OS-1-060723], 23F1274-13[MW-1-060723], B343454-BLK1, B343454-BS1, B343454-BSD1, B343729-BLK1, B343729-BS1, B343729-BSD1, B343729-MS1, B343729-MSD1, S089353-CCV1, S089469-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:
Chloromethane

B343051-BS1, B343051-BSD1, S089185-CCV1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Bromochloromethane**

B343454-BS1, B343454-BSD1, B343729-BS1, B343729-BSD1, B343729-MS1, B343729-MSD1, S089353-CCV1, S089469-CCV1

Bromomethane

B343050-BS1, B343050-BSD1, S089125-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Chloromethane**

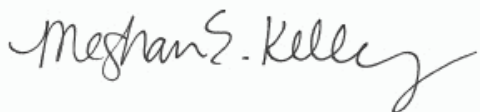
23F1274-10[OS-1-060723], 23F1274-13[MW-1-060723], B343454-BLK1, B343454-BS1, B343454-BSD1, B343729-BLK1, B343729-BS1, B343729-BSD1, B343729-MS1, B343729-MSD1, S089353-CCV1, S089469-CCV1

Dichlorodifluoromethane (Freon 12)

23F1274-10[OS-1-060723], 23F1274-13[MW-1-060723], B343454-BLK1, B343454-BS1, B343454-BSD1, B343729-BLK1, B343729-BS1, B343729-BSD1, B343729-MS1, B343729-MSD1, S089353-CCV1, S089469-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: TRIP BLANK

Sampled: 6/6/2023 00:00

Sample ID: 23F1274-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Toluene	0.45	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: TRIP BLANK

Sampled: 6/6/2023 00:00

Sample ID: 23F1274-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	89.9	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-2-060623

Sampled: 6/6/2023 10:40

Sample ID: 23F1274-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Toluene	0.48	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-2-060623

Sampled: 6/6/2023 10:40

Sample ID: 23F1274-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.5	70-130	
Toluene-d8	99.2	70-130	
4-Bromofluorobenzene	92.3	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-6-060623

Sampled: 6/6/2023 12:49

Sample ID: 23F1274-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Toluene	0.42	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-6-060623

Sampled: 6/6/2023 12:49

Sample ID: 23F1274-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.6	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	89.6	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-3-060623

Sampled: 6/6/2023 14:14

Sample ID: 23F1274-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Toluene	0.40	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-3-060623

Sampled: 6/6/2023 14:14

Sample ID: 23F1274-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.5	70-130	
Toluene-d8	98.6	70-130	
4-Bromofluorobenzene	90.3	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-12-060623

Sampled: 6/6/2023 14:49

Sample ID: 23F1274-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Toluene	0.43	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-12-060623

Sampled: 6/6/2023 14:49

Sample ID: 23F1274-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	98.2	70-130	
4-Bromofluorobenzene	90.4	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1274-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.1	50	2.0	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Methyl tert-Butyl Ether (MTBE)	0.51	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Toluene	0.36	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1274-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	97.8	70-130	
4-Bromofluorobenzene	92.2	70-130	

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1274-06

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0025	mg/L	1		RSK175	6/20/23	6/20/23 14:30	TPH
Ethene	ND	0.017	0.00031	mg/L	1		RSK175	6/20/23	6/20/23 14:30	TPH
Methane	ND	0.0070	0.0012	mg/L	1		RSK175	6/20/23	6/20/23 14:30	TPH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1274-06

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:53	ATP
Antimony	ND	1.0	0.22	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:13	ICPMS
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:13	ICPMS
Barium	130	10	1.1	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:41	MJH
Beryllium	ND	0.40	0.11	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:13	ICPMS
Cadmium	0.19	0.20	0.063	µg/L	1	J	SW-846 6020B	6/12/23	6/21/23 20:58	NC
Calcium	140	0.50	0.22	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:53	ATP
Chromium	0.73	1.0	0.61	µg/L	1	J	SW-846 6020B	6/12/23	6/14/23 17:13	ICPMS
Cobalt	0.96	1.0	0.12	µg/L	1	J	SW-846 6020B	6/12/23	6/20/23 16:41	MJH
Copper	0.93	1.0	0.25	µg/L	1	J	SW-846 6020B	6/12/23	6/21/23 20:58	NC
Iron	1.7	0.050	0.047	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:53	ATP
Lead	ND	0.50	0.17	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:41	MJH
Magnesium	20	0.050	0.0095	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:53	ATP
Manganese	2100	20	6.4	µg/L	20		SW-846 6020B	6/12/23	6/14/23 17:16	NC
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	6/15/23	6/16/23 12:10	ICP
Nickel	2.7	5.0	1.8	µg/L	1	J	SW-846 6020B	6/12/23	6/20/23 16:41	MJH
Potassium	3.3	2.0	0.28	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:53	ATP
Selenium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:41	MJH
Silver	0.080	0.20	0.064	µg/L	1	J	SW-846 6020B	6/12/23	6/20/23 16:41	MJH
Sodium	250	2.0	1.2	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:53	ATP
Thallium	ND	0.20	0.090	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:13	ICPMS
Vanadium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:41	MJH
Zinc	ND	10	9.2	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:41	MJH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1274-06

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	400	10	6.5	mg/L	10		EPA 300.0	6/21/23	6/21/23 20:55	IS
Sulfate	46	1.0	0.32	mg/L	1		EPA 300.0	6/10/23	6/10/23 15:01	NRH
Sulfide	ND	2.0	1.6	mg/L	1		SM21-23 4500S-F	6/13/23	6/13/23 12:55	DET
Total Organic Carbon	73	2.0	1.1	mg/L	2		SM 21-23 5310B	6/20/23	6/20/23 17:11	QH
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	0.42	mg/L	1		EPA 1664B	6/22/23	6/22/23 11:32	LL
Alkalinity to pH 4.5	360	1.0	0.70	mg/L	1	PR-18	SM21-23 2320B	6/15/23	6/15/23 11:29	QH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: DUP1-060623

Sampled: 6/6/2023 00:00

Sample ID: 23F1274-07

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Toluene	0.46	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: DUP1-060623

Sampled: 6/6/2023 00:00

Sample ID: 23F1274-07

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	98.4	70-130	
4-Bromofluorobenzene	90.7	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: 1W-1-060723

Sampled: 6/7/2023 09:51

Sample ID: 23F1274-08

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
cis-1,2-Dichloroethylene	0.76	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
trans-1,2-Dichloroethylene	0.32	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Toluene	0.53	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: 1W-1-060723

Sampled: 6/7/2023 09:51

Sample ID: 23F1274-08

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Trichloroethylene	0.43	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	87.2	70-130	

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: 1W-1-060723

Sampled: 6/7/2023 09:51

Sample ID: 23F1274-08

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0025	mg/L	1		RSK175	6/20/23	6/20/23 14:37	TPH
Ethene	ND	0.017	0.00031	mg/L	1		RSK175	6/20/23	6/20/23 14:37	TPH
Methane	0.20	0.0070	0.0012	mg/L	1		RSK175	6/20/23	6/20/23 14:37	TPH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: 1W-1-060723

Sampled: 6/7/2023 09:51

Sample ID: 23F1274-08

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:58	ATP
Antimony	ND	1.0	0.22	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:19	ICPMS
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:19	ICPMS
Barium	280	10	1.1	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:44	MJH
Beryllium	ND	0.40	0.11	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:19	ICPMS
Cadmium	ND	0.20	0.063	µg/L	1		SW-846 6020B	6/12/23	6/21/23 21:00	NC
Calcium	160	0.50	0.22	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:58	ATP
Chromium	0.94	1.0	0.61	µg/L	1	J	SW-846 6020B	6/12/23	6/14/23 17:19	ICPMS
Cobalt	0.15	1.0	0.12	µg/L	1	J	SW-846 6020B	6/12/23	6/20/23 16:44	MJH
Copper	1.4	1.0	0.25	µg/L	1		SW-846 6020B	6/12/23	6/21/23 21:00	NC
Iron	0.18	0.050	0.047	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:58	ATP
Lead	ND	0.50	0.17	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:44	MJH
Magnesium	35	0.050	0.0095	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:58	ATP
Manganese	240	1.0	0.32	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:44	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	6/12/23	6/13/23 12:52	AAJ
Nickel	2.4	5.0	1.8	µg/L	1	J	SW-846 6020B	6/12/23	6/20/23 16:44	MJH
Potassium	5.1	2.0	0.28	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:58	ATP
Selenium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:44	MJH
Silver	ND	0.20	0.064	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:44	MJH
Sodium	390	2.0	1.2	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:58	ATP
Thallium	ND	0.20	0.090	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:19	ICPMS
Vanadium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:44	MJH
Zinc	ND	10	9.2	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:44	MJH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: 1W-1-060723

Sampled: 6/7/2023 09:51

Sample ID: 23F1274-08

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	740	25	16	mg/L	25		EPA 300.0	6/21/23	6/21/23 21:40	IS
Sulfate	59	5.0	1.6	mg/L	5		EPA 300.0	6/21/23	6/21/23 21:18	IS
Sulfide	ND	2.0	1.6	mg/L	1		SM21-23 4500S-F	6/13/23	6/13/23 12:55	DET
Total Organic Carbon	0.58	1.0	0.56	mg/L	1	J	SM 21-23 5310B	6/15/23	6/15/23 16:10	QH
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	0.44	mg/L	1		EPA 1664B	6/22/23	6/22/23 11:32	LL
Alkalinity to pH 4.5	290	1.0	0.70	mg/L	1	PR-18	SM21-23 2320B	6/15/23	6/15/23 11:33	QH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1274-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
cis-1,2-Dichloroethylene	8.0	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
trans-1,2-Dichloroethylene	1.3	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Tetrachloroethylene	5.8	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Toluene	0.45	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1274-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Trichloroethylene	1.8	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Vinyl Chloride	0.97	2.0	0.24	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	89.9	70-130	

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1274-09

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0025	mg/L	1		RSK175	6/20/23	6/20/23 14:57	TPH
Ethene	ND	0.017	0.00031	mg/L	1		RSK175	6/20/23	6/20/23 14:57	TPH
Methane	0.51	0.0070	0.0012	mg/L	1		RSK175	6/20/23	6/20/23 14:57	TPH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1274-09

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:04	ATP
Antimony	ND	1.0	0.22	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:23	ICPMS
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:23	ICPMS
Barium	1000	10	1.1	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:47	MJH
Beryllium	ND	0.40	0.11	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:23	ICPMS
Cadmium	ND	0.20	0.063	µg/L	1		SW-846 6020B	6/12/23	6/21/23 21:03	NC
Calcium	160	0.50	0.22	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:04	ATP
Chromium	0.84	1.0	0.61	µg/L	1	J	SW-846 6020B	6/12/23	6/14/23 17:23	ICPMS
Cobalt	0.33	1.0	0.12	µg/L	1	J	SW-846 6020B	6/12/23	6/20/23 16:47	MJH
Copper	1.0	1.0	0.25	µg/L	1		SW-846 6020B	6/12/23	6/21/23 21:03	NC
Iron	2.1	0.050	0.047	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:04	ATP
Lead	ND	0.50	0.17	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:47	MJH
Magnesium	33	0.050	0.0095	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:04	ATP
Manganese	220	1.0	0.32	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:47	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	6/12/23	6/13/23 12:54	AAJ
Nickel	2.3	5.0	1.8	µg/L	1	J	SW-846 6020B	6/12/23	6/20/23 16:47	MJH
Potassium	4.7	2.0	0.28	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:04	ATP
Selenium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:47	MJH
Silver	ND	0.20	0.064	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:23	ICPMS
Sodium	350	2.0	1.2	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:04	ATP
Thallium	ND	0.20	0.090	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:23	ICPMS
Vanadium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:47	MJH
Zinc	ND	10	9.2	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:47	MJH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1274-09

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	690	25	16	mg/L	25		EPA 300.0	6/21/23	6/21/23 22:47	IS
Sulfate	48	1.0	0.32	mg/L	1		EPA 300.0	6/10/23	6/10/23 16:30	NRH
Sulfide	ND	2.0	1.6	mg/L	1		SM21-23 4500S-F	6/13/23	6/13/23 12:55	DET
Total Organic Carbon	0.56	1.0	0.56	mg/L	1	J	SM 21-23 5310B	6/15/23	6/15/23 16:35	QH
Silica Gel Treated HEM (SGT-HEM)	1.1	1.4	0.43	mg/L	1	J	EPA 1664B	6/22/23	6/22/23 11:32	LL
Alkalinity to pH 4.5	260	1.0	0.70	mg/L	1	PR-18	SM21-23 2320B	6/15/23	6/15/23 11:35	QH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-1-060723

Sampled: 6/7/2023 15:32

Sample ID: 23F1274-10

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	4.0	µg/L	2	MS-07A, V-05	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Benzene	ND	2.0	0.37	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Bromochloromethane	ND	2.0	0.57	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Bromodichloromethane	ND	1.0	0.32	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Bromoform	ND	2.0	0.82	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Bromomethane	ND	4.0	2.6	µg/L	2	MS-07A	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
2-Butanone (MEK)	ND	40	3.4	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Carbon Disulfide	ND	10	3.1	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Chlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Chlorodibromomethane	ND	1.0	0.40	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Chloroethane	ND	4.0	0.68	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Chloroform	ND	4.0	0.28	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Chloromethane	ND	4.0	1.0	µg/L	2	MS-07A, R-06, V-05, V-34	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Cyclohexane	ND	10	3.5	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	1.7	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2-Dibromoethane (EDB)	ND	1.0	0.32	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,3-Dichlorobenzene	ND	2.0	0.27	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.32	µg/L	2	V-34	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1-Dichloroethane	ND	2.0	0.27	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2-Dichloroethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1-Dichloroethylene	ND	2.0	0.28	µg/L	2	V-05	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
cis-1,2-Dichloroethylene	2.0	2.0	0.28	µg/L	2	J	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
trans-1,2-Dichloroethylene	1.4	2.0	0.34	µg/L	2	J	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2-Dichloropropane	ND	2.0	0.39	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
cis-1,3-Dichloropropene	ND	1.0	0.33	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
trans-1,3-Dichloropropene	ND	1.0	0.28	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,4-Dioxane	ND	100	36	µg/L	2	MS-07A	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Ethylbenzene	ND	2.0	0.44	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
2-Hexanone (MBK)	ND	20	2.4	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.30	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Methyl Acetate	ND	2.0	1.2	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Methyl Cyclohexane	ND	2.0	0.31	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Methylene Chloride	ND	10	0.35	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Styrene	ND	2.0	0.30	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	0.27	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Tetrachloroethylene	110	2.0	0.34	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2,3-Trichlorobenzene	ND	10	0.68	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-1-060723

Sampled: 6/7/2023 15:32

Sample ID: 23F1274-10

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,4-Trichlorobenzene	ND	2.0	0.60	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1,1-Trichloroethane	ND	2.0	0.30	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1,2-Trichloroethane	ND	2.0	0.38	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Trichloroethylene	36	2.0	0.35	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	0.31	µg/L	2	L-04, V-05	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.42	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Vinyl Chloride	ND	4.0	0.47	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Xylenes (total)	ND	2.0	2.0	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	102		70-130				6/20/23 18:41			
Toluene-d8	102		70-130				6/20/23 18:41			
4-Bromofluorobenzene	92.7		70-130				6/20/23 18:41			

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-9R-060723

Sampled: 6/7/2023 13:30

Sample ID: 23F1274-11

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Chloroform	0.31	2.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
cis-1,2-Dichloroethylene	0.27	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Tetrachloroethylene	20	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Toluene	0.44	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-9R-060723

Sampled: 6/7/2023 13:30

Sample ID: 23F1274-11

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Trichloroethylene	0.43	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	98.2	70-130	
4-Bromofluorobenzene	87.9	70-130	

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-9R-060723

Sampled: 6/7/2023 13:30

Sample ID: 23F1274-11

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0025	mg/L	1		RSK175	6/20/23	6/20/23 15:17	TPH
Ethene	ND	0.017	0.00031	mg/L	1		RSK175	6/20/23	6/20/23 15:17	TPH
Methane	ND	0.0070	0.0012	mg/L	1		RSK175	6/20/23	6/20/23 15:17	TPH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-9R-060723

Sampled: 6/7/2023 13:30

Sample ID: 23F1274-11

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:10	ATP
Antimony	ND	1.0	0.22	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:26	ICPMS
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:26	ICPMS
Barium	94	10	1.1	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:52	MJH
Beryllium	ND	0.40	0.11	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:26	ICPMS
Cadmium	ND	0.20	0.063	µg/L	1		SW-846 6020B	6/12/23	6/21/23 21:06	NC
Calcium	120	0.50	0.22	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:10	ATP
Chromium	1.1	1.0	0.61	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:26	ICPMS
Cobalt	0.21	1.0	0.12	µg/L	1	J	SW-846 6020B	6/12/23	6/20/23 16:52	MJH
Copper	0.81	1.0	0.25	µg/L	1	J	SW-846 6020B	6/12/23	6/21/23 21:06	NC
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:10	ATP
Lead	ND	0.50	0.17	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:52	MJH
Magnesium	28	0.050	0.0095	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:10	ATP
Manganese	16	1.0	0.32	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:52	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	6/12/23	6/13/23 13:05	AAJ
Nickel	ND	5.0	1.8	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:52	MJH
Potassium	2.8	2.0	0.28	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:10	ATP
Selenium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:52	MJH
Silver	ND	0.20	0.064	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:26	ICPMS
Sodium	280	2.0	1.2	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:10	ATP
Thallium	ND	0.20	0.090	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:26	ICPMS
Vanadium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:52	MJH
Zinc	ND	10	9.2	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:52	MJH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-9R-060723

Sampled: 6/7/2023 13:30

Sample ID: 23F1274-11

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	470	10	6.5	mg/L	10		EPA 300.0	6/21/23	6/21/23 23:09	IS
Sulfate	61	10	3.2	mg/L	10		EPA 300.0	6/21/23	6/21/23 23:09	IS
Sulfide	ND	2.0	1.6	mg/L	1		SM21-23 4500S-F	6/14/23	6/14/23 9:03	DET
Total Organic Carbon	ND	1.0	0.56	mg/L	1		SM 21-23 5310B	6/15/23	6/15/23 16:51	QH
Silica Gel Treated HEM (SGT-HEM)	0.53	1.5	0.45	mg/L	1	J	EPA 1664B	6/22/23	6/22/23 11:32	LL
Alkalinity to pH 4.5	290	1.0	0.70	mg/L	1	PR-18	SM21-23 2320B	6/15/23	6/15/23 11:38	QH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-2-060723

Sampled: 6/7/2023 09:30

Sample ID: 23F1274-12

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
cis-1,2-Dichloroethylene	4.7	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Tetrachloroethylene	5.8	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Toluene	0.45	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-2-060723

Sampled: 6/7/2023 09:30

Sample ID: 23F1274-12

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Trichloroethylene	1.8	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Vinyl Chloride	0.84	2.0	0.24	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	88.9	70-130	

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-2-060723

Sampled: 6/7/2023 09:30

Sample ID: 23F1274-12

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0025	mg/L	1		RSK175	6/20/23	6/20/23 15:33	TPH
Ethene	ND	0.017	0.00031	mg/L	1		RSK175	6/20/23	6/20/23 15:33	TPH
Methane	0.048	0.0070	0.0012	mg/L	1		RSK175	6/20/23	6/20/23 15:33	TPH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-2-060723

Sampled: 6/7/2023 09:30

Sample ID: 23F1274-12

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:15	ATP
Antimony	ND	1.0	0.22	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Barium	170	10	1.1	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Beryllium	ND	0.40	0.11	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Cadmium	0.12	0.20	0.063	µg/L	1	J	SW-846 6020B	6/12/23	6/21/23 21:12	NC
Calcium	140	0.50	0.22	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:15	ATP
Chromium	ND	1.0	0.61	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Cobalt	3.4	1.0	0.12	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Copper	1.6	1.0	0.25	µg/L	1		SW-846 6020B	6/12/23	6/21/23 21:12	NC
Iron	0.34	0.050	0.047	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:15	ATP
Lead	ND	0.50	0.17	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Magnesium	25	0.050	0.0095	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:15	ATP
Manganese	5000	20	6.4	µg/L	20		SW-846 6020B	6/12/23	6/21/23 21:09	NC
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	6/12/23	6/13/23 13:06	AAJ
Nickel	6.1	5.0	1.8	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Potassium	3.6	2.0	0.28	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:15	ATP
Selenium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Silver	ND	0.20	0.064	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Sodium	170	2.0	1.2	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:15	ATP
Thallium	ND	0.20	0.090	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Vanadium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH
Zinc	ND	10	9.2	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:55	MJH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-2-060723

Sampled: 6/7/2023 09:30

Sample ID: 23F1274-12

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	330	10	6.5	mg/L	10		EPA 300.0	6/21/23	6/21/23 23:31	IS
Sulfate	47	1.0	0.32	mg/L	1		EPA 300.0	6/10/23	6/10/23 18:21	NRH
Sulfide	ND	2.0	1.6	mg/L	1		SM21-23 4500S-F	6/14/23	6/14/23 9:03	DET
Total Organic Carbon	31	1.0	0.56	mg/L	1		SM 21-23 5310B	6/15/23	6/15/23 17:19	QH
Silica Gel Treated HEM (SGT-HEM)	1.0	1.4	0.42	mg/L	1	J	EPA 1664B	6/22/23	6/22/23 11:32	LL
Alkalinity to pH 4.5	310	1.0	0.70	mg/L	1	PR-18	SM21-23 2320B	6/15/23	6/15/23 11:43	QH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-1-060723

Sampled: 6/7/2023 16:35

Sample ID: 23F1274-13

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	V-05	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	R-05, V-34	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1	V-34	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
cis-1,2-Dichloroethylene	2.8	1.0	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Methylene Chloride	0.25	5.0	0.18	µg/L	1	J	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Tetrachloroethylene	88	1.0	0.17	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Toluene	0.54	1.0	0.22	µg/L	1	J	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-1-060723

Sampled: 6/7/2023 16:35

Sample ID: 23F1274-13

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Trichloroethylene	7.9	1.0	0.17	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1	V-05	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.6	70-130	
Toluene-d8	99.6	70-130	
4-Bromofluorobenzene	96.2	70-130	

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-6-060723

Sampled: 6/7/2023 12:10

Sample ID: 23F1274-14

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Chloroform	0.40	2.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
cis-1,2-Dichloroethylene	0.27	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Tetrachloroethylene	12	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Toluene	0.39	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-6-060723

Sampled: 6/7/2023 12:10

Sample ID: 23F1274-14

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Trichloroethylene	0.29	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	98.6	70-130	
4-Bromofluorobenzene	89.1	70-130	

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-6-060723

Sampled: 6/7/2023 12:10

Sample ID: 23F1274-14

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0025	mg/L	1		RSK175	6/20/23	6/20/23 15:44	TPH
Ethene	ND	0.017	0.00031	mg/L	1		RSK175	6/20/23	6/20/23 15:44	TPH
Methane	ND	0.0070	0.0012	mg/L	1		RSK175	6/20/23	6/20/23 15:44	TPH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-6-060723

Sampled: 6/7/2023 12:10

Sample ID: 23F1274-14

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:21	ATP
Antimony	ND	1.0	0.22	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Barium	91	10	1.1	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Beryllium	ND	0.40	0.11	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Cadmium	ND	0.20	0.063	µg/L	1		SW-846 6020B	6/12/23	6/21/23 21:15	NC
Calcium	130	0.50	0.22	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:21	ATP
Chromium	ND	1.0	0.61	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Cobalt	0.47	1.0	0.12	µg/L	1	J	SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Copper	0.79	1.0	0.25	µg/L	1	J	SW-846 6020B	6/12/23	6/21/23 21:15	NC
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:21	ATP
Lead	ND	0.50	0.17	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Magnesium	30	0.050	0.0095	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:21	ATP
Manganese	46	1.0	0.32	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	6/12/23	6/13/23 13:08	AAJ
Nickel	2.3	5.0	1.8	µg/L	1	J	SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Potassium	3.4	2.0	0.28	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:21	ATP
Selenium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Silver	ND	0.20	0.064	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Sodium	290	2.0	1.2	mg/L	1		SW-846 6010D	6/12/23	6/12/23 19:21	ATP
Thallium	ND	0.20	0.090	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Vanadium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH
Zinc	ND	10	9.2	µg/L	1		SW-846 6020B	6/12/23	6/20/23 16:58	MJH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-6-060723

Sampled: 6/7/2023 12:10

Sample ID: 23F1274-14

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	510	25	16	mg/L	25		EPA 300.0	6/22/23	6/22/23 0:16	IS
Sulfate	60	5.0	1.6	mg/L	5		EPA 300.0	6/21/23	6/21/23 23:53	IS
Sulfide	ND	2.0	1.6	mg/L	1		SM21-23 4500S-F	6/14/23	6/14/23 9:03	DET
Total Organic Carbon	1.0	1.0	0.56	mg/L	1		SM 21-23 5310B	6/15/23	6/15/23 17:47	QH
Silica Gel Treated HEM (SGT-HEM)	1.3	1.4	0.44	mg/L	1	J	EPA 1664B	6/22/23	6/22/23 11:32	LL
Alkalinity to pH 4.5	270	1.0	0.70	mg/L	1	PR-18	SM21-23 2320B	6/15/23	6/15/23 11:46	QH

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: 1W-2-060723

Sampled: 6/7/2023 16:00

Sample ID: 23F1274-15

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	5.3	50	2.0	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
cis-1,2-Dichloroethylene	5.3	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
trans-1,2-Dichloroethylene	0.30	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Tetrachloroethylene	12	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Toluene	0.52	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF

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Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: 1W-2-060723

Sampled: 6/7/2023 16:00

Sample ID: 23F1274-15

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Trichloroethylene	12	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	98.5	70-130	
4-Bromofluorobenzene	88.5	70-130	

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Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
23F1274-06 [OS-4-060623]	B344003	1000	06/22/23
23F1274-08 [IW-1-060723]	B344003	970	06/22/23
23F1274-09 [MW-8-060723]	B344003	980	06/22/23
23F1274-11 [MW-9R-060723]	B344003	950	06/22/23
23F1274-12 [MW-2-060723]	B344003	1000	06/22/23
23F1274-14 [MW-6-060723]	B344003	970	06/22/23

Prep Method:EPA 300.0 Analytical Method:EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-06 [OS-4-060623]	B343125	10.0	10.0	06/10/23
23F1274-09 [MW-8-060723]	B343125	10.0	10.0	06/10/23
23F1274-12 [MW-2-060723]	B343125	10.0	10.0	06/10/23

Prep Method:EPA 300.0 Analytical Method:EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-06 [OS-4-060623]	B343918	10.0	10.0	06/21/23
23F1274-08 [IW-1-060723]	B343918	10.0	10.0	06/21/23
23F1274-08 [IW-1-060723]	B343918	10.0	10.0	06/21/23
23F1274-09 [MW-8-060723]	B343918	10.0	10.0	06/21/23
23F1274-11 [MW-9R-060723]	B343918	10.0	10.0	06/21/23
23F1274-12 [MW-2-060723]	B343918	10.0	10.0	06/21/23
23F1274-14 [MW-6-060723]	B343918	10.0	10.0	06/21/23
23F1274-14 [MW-6-060723]	B343918	10.0	10.0	06/22/23

Prep Method:RSK175 Analytical Method:RSK175

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-06 [OS-4-060623]	B344096	1.00	1.00	06/20/23
23F1274-08 [IW-1-060723]	B344096	1.00	1.00	06/20/23
23F1274-09 [MW-8-060723]	B344096	1.00	1.00	06/20/23
23F1274-11 [MW-9R-060723]	B344096	1.00	1.00	06/20/23
23F1274-12 [MW-2-060723]	B344096	1.00	1.00	06/20/23
23F1274-14 [MW-6-060723]	B344096	1.00	1.00	06/20/23

SM 21-23 5310B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-08 [IW-1-060723]	B343354	50.0	50.0	06/15/23
23F1274-09 [MW-8-060723]	B343354	50.0	50.0	06/15/23
23F1274-11 [MW-9R-060723]	B343354	50.0	50.0	06/15/23
23F1274-12 [MW-2-060723]	B343354	50.0	50.0	06/15/23
23F1274-14 [MW-6-060723]	B343354	50.0	50.0	06/15/23

SM 21-23 5310B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-06 [OS-4-060623]	B343741	50.0	50.0	06/20/23

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Sample Extraction Data

SM21-23 2320B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-06 [OS-4-060623]	B343351	100	100	06/15/23
23F1274-08 [IW-1-060723]	B343351	100	100	06/15/23
23F1274-09 [MW-8-060723]	B343351	100	100	06/15/23
23F1274-11 [MW-9R-060723]	B343351	100	100	06/15/23
23F1274-12 [MW-2-060723]	B343351	100	100	06/15/23
23F1274-14 [MW-6-060723]	B343351	100	100	06/15/23

SM21-23 4500S-F

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-06 [OS-4-060623]	B343099	100	100	06/13/23
23F1274-08 [IW-1-060723]	B343099	100	100	06/13/23
23F1274-09 [MW-8-060723]	B343099	100	100	06/13/23

SM21-23 4500S-F

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-11 [MW-9R-060723]	B343218	100	100	06/14/23
23F1274-12 [MW-2-060723]	B343218	100	100	06/14/23
23F1274-14 [MW-6-060723]	B343218	100	100	06/14/23

Prep Method:SW-846 3005A Analytical Method:SW-846 6010D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-06 [OS-4-060623]	B342970	50.0	50.0	06/12/23
23F1274-08 [IW-1-060723]	B342970	50.0	50.0	06/12/23
23F1274-09 [MW-8-060723]	B342970	50.0	50.0	06/12/23
23F1274-11 [MW-9R-060723]	B342970	50.0	50.0	06/12/23
23F1274-12 [MW-2-060723]	B342970	50.0	50.0	06/12/23
23F1274-14 [MW-6-060723]	B342970	50.0	50.0	06/12/23

Prep Method:SW-846 3005A Analytical Method:SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-06 [OS-4-060623]	B342964	50.0	50.0	06/12/23
23F1274-08 [IW-1-060723]	B342964	50.0	50.0	06/12/23
23F1274-09 [MW-8-060723]	B342964	50.0	50.0	06/12/23
23F1274-11 [MW-9R-060723]	B342964	50.0	50.0	06/12/23
23F1274-12 [MW-2-060723]	B342964	50.0	50.0	06/12/23
23F1274-14 [MW-6-060723]	B342964	50.0	50.0	06/12/23

Prep Method:SW-846 7470A Prep Analytical Method:SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-08 [IW-1-060723]	B342973	10.0	10.0	06/12/23
23F1274-09 [MW-8-060723]	B342973	10.0	10.0	06/12/23
23F1274-11 [MW-9R-060723]	B342973	10.0	10.0	06/12/23

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Sample Extraction Data**Prep Method:SW-846 7470A Prep Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-12 [MW-2-060723]	B342973	10.0	10.0	06/12/23
23F1274-14 [MW-6-060723]	B342973	10.0	10.0	06/12/23

Prep Method:SW-846 7470A Prep Analytical Method:SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-06 [OS-4-060623]	B343361	10.0	10.0	06/15/23

Prep Method:SW-846 5030B Analytical Method:SW-846 8260D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-01 [TRIP BLANK]	B343050	5	5.00	06/13/23
23F1274-02 [OS-2-060623]	B343050	5	5.00	06/13/23
23F1274-03 [OS-6-060623]	B343050	5	5.00	06/13/23
23F1274-04 [OS-3-060623]	B343050	5	5.00	06/13/23

Prep Method:SW-846 5030B Analytical Method:SW-846 8260D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-05 [MW-12-060623]	B343051	5	5.00	06/13/23
23F1274-06 [OS-4-060623]	B343051	5	5.00	06/13/23
23F1274-07 [DUP1-060623]	B343051	5	5.00	06/13/23
23F1274-08 [IW-1-060723]	B343051	5	5.00	06/13/23
23F1274-09 [MW-8-060723]	B343051	5	5.00	06/13/23
23F1274-11 [MW-9R-060723]	B343051	5	5.00	06/13/23
23F1274-12 [MW-2-060723]	B343051	5	5.00	06/13/23
23F1274-14 [MW-6-060723]	B343051	5	5.00	06/13/23
23F1274-15 [IW-2-060723]	B343051	5	5.00	06/13/23

Prep Method:SW-846 5030B Analytical Method:SW-846 8260D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-13 [MW-1-060723]	B343454	5	5.00	06/19/23

Prep Method:SW-846 5030B Analytical Method:SW-846 8260D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1274-10 [OS-1-060723]	B343729	2.5	5.00	06/20/23

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343050 - SW-846 5030B
Blank (B343050-BLK1)

Prepared: 06/13/23 Analyzed: 06/14/23

Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							V-05
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343050 - SW-846 5030B										
Blank (B343050-BLK1)										
Prepared: 06/13/23 Analyzed: 06/14/23										
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.7		µg/L	25.0		98.9	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	22.9		µg/L	25.0		91.7	70-130			
LCS (B343050-BS1)										
Prepared: 06/13/23 Analyzed: 06/14/23										
Acetone	90.6	50	µg/L	100		90.6	70-160			†
Benzene	11.0	1.0	µg/L	10.0		110	70-130			
Bromochloromethane	10.9	1.0	µg/L	10.0		109	70-130			
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130			
Bromoform	8.16	1.0	µg/L	10.0		81.6	70-130			
Bromomethane	12.2	2.0	µg/L	10.0		122	40-160		V-20	†
2-Butanone (MEK)	103	20	µg/L	100		103	40-160			†
Carbon Disulfide	101	5.0	µg/L	100		101	70-130			
Carbon Tetrachloride	9.72	5.0	µg/L	10.0		97.2	70-130			
Chlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
Chlorodibromomethane	9.52	0.50	µg/L	10.0		95.2	70-130			
Chloroethane	9.63	2.0	µg/L	10.0		96.3	70-130			
Chloroform	10.4	2.0	µg/L	10.0		104	70-130			
Chloromethane	9.81	2.0	µg/L	10.0		98.1	40-160			†
Cyclohexane	9.88	5.0	µg/L	10.0		98.8	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.45	5.0	µg/L	10.0		74.5	70-130		V-05	
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130			
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,4-Dichlorobenzene	9.96	1.0	µg/L	10.0		99.6	70-130			
Dichlorodifluoromethane (Freon 12)	11.1	2.0	µg/L	10.0		111	40-160			†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloroethane	9.73	1.0	µg/L	10.0		97.3	70-130			
1,1-Dichloroethylene	9.40	1.0	µg/L	10.0		94.0	70-130			
cis-1,2-Dichloroethylene	9.86	1.0	µg/L	10.0		98.6	70-130			
trans-1,2-Dichloroethylene	9.56	1.0	µg/L	10.0		95.6	70-130			
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	9.57	0.50	µg/L	10.0		95.7	70-130			
trans-1,3-Dichloropropene	9.23	0.50	µg/L	10.0		92.3	70-130			
1,4-Dioxane	85.8	50	µg/L	100		85.8	40-130			†
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
2-Hexanone (MBK)	93.4	10	µg/L	100		93.4	70-160			†
Isopropylbenzene (Cumene)	9.76	1.0	µg/L	10.0		97.6	70-130			
Methyl Acetate	7.32	1.0	µg/L	10.0		73.2	70-130		V-05	
Methyl tert-Butyl Ether (MTBE)	8.97	1.0	µg/L	10.0		89.7	70-130			
Methyl Cyclohexane	10.5	1.0	µg/L	10.0		105	70-130			
Methylene Chloride	9.80	5.0	µg/L	10.0		98.0	70-130			
4-Methyl-2-pentanone (MIBK)	91.0	10	µg/L	100		91.0	70-160			†
Styrene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,2,2-Tetrachloroethane	9.83	0.50	µg/L	10.0		98.3	70-130			
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
Toluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	9.64	5.0	µg/L	10.0		96.4	70-130			
1,2,4-Trichlorobenzene	9.57	1.0	µg/L	10.0		95.7	70-130			
1,1,1-Trichloroethane	9.80	1.0	µg/L	10.0		98.0	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343050 - SW-846 5030B										
LCS (B343050-BS1)										
Prepared: 06/13/23 Analyzed: 06/14/23										
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	9.67	2.0	µg/L	10.0		96.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.77	1.0	µg/L	10.0		97.7	70-130			
Vinyl Chloride	11.4	2.0	µg/L	10.0		114	40-160			†
m+p Xylene	21.0	2.0	µg/L	20.0		105	70-130			
o-Xylene	9.81	1.0	µg/L	10.0		98.1	70-130			
Xylenes (total)	30.8	1.0	µg/L	30.0		103	0-200			
Surrogate: 1,2-Dichloroethane-d4	23.3		µg/L	25.0		93.2	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.3	70-130			
LCS Dup (B343050-BSD1)										
Prepared: 06/13/23 Analyzed: 06/14/23										
Acetone	98.8	50	µg/L	100		98.8	70-160	8.66	25	†
Benzene	11.2	1.0	µg/L	10.0		112	70-130	2.16	25	
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130	4.22	25	
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130	0.0988	25	
Bromoform	8.41	1.0	µg/L	10.0		84.1	70-130	3.02	25	
Bromomethane	12.6	2.0	µg/L	10.0		126	40-160	3.23	25	V-20 †
2-Butanone (MEK)	109	20	µg/L	100		109	40-160	4.84	25	†
Carbon Disulfide	107	5.0	µg/L	100		107	70-130	5.62	25	
Carbon Tetrachloride	10.0	5.0	µg/L	10.0		100	70-130	3.14	25	
Chlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	1.95	25	
Chlorodibromomethane	9.65	0.50	µg/L	10.0		96.5	70-130	1.36	25	
Chloroethane	10.1	2.0	µg/L	10.0		101	70-130	4.86	25	
Chloroform	10.5	2.0	µg/L	10.0		105	70-130	1.34	25	
Chloromethane	10.1	2.0	µg/L	10.0		101	40-160	3.31	25	†
Cyclohexane	10.2	5.0	µg/L	10.0		102	70-130	3.48	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.39	5.0	µg/L	10.0		83.9	70-130	11.9	25	V-05
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130	0.861	25	
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	1.07	25	
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.29	25	
1,4-Dichlorobenzene	9.97	1.0	µg/L	10.0		99.7	70-130	0.100	25	
Dichlorodifluoromethane (Freon 12)	11.7	2.0	µg/L	10.0		117	40-160	5.36	25	†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130	1.17	25	
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130	2.84	25	
1,1-Dichloroethylene	9.71	1.0	µg/L	10.0		97.1	70-130	3.24	25	
cis-1,2-Dichloroethylene	9.99	1.0	µg/L	10.0		99.9	70-130	1.31	25	
trans-1,2-Dichloroethylene	9.53	1.0	µg/L	10.0		95.3	70-130	0.314	25	
1,2-Dichloropropane	11.1	1.0	µg/L	10.0		111	70-130	4.52	25	
cis-1,3-Dichloropropene	9.74	0.50	µg/L	10.0		97.4	70-130	1.76	25	
trans-1,3-Dichloropropene	9.17	0.50	µg/L	10.0		91.7	70-130	0.652	25	
1,4-Dioxane	88.3	50	µg/L	100		88.3	40-130	2.87	50	† ‡
Ethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	3.69	25	
2-Hexanone (MBK)	96.9	10	µg/L	100		96.9	70-160	3.75	25	†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.0		101	70-130	3.52	25	
Methyl Acetate	7.77	1.0	µg/L	10.0		77.7	70-130	5.96	25	V-05
Methyl tert-Butyl Ether (MTBE)	9.01	1.0	µg/L	10.0		90.1	70-130	0.445	25	
Methyl Cyclohexane	11.0	1.0	µg/L	10.0		110	70-130	4.57	25	
Methylene Chloride	9.89	5.0	µg/L	10.0		98.9	70-130	0.914	25	
4-Methyl-2-pentanone (MIBK)	94.1	10	µg/L	100		94.1	70-160	3.34	25	†
Styrene	10.8	1.0	µg/L	10.0		108	70-130	5.60	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343050 - SW-846 5030B
LCS Dup (B343050-BSD1)

Prepared: 06/13/23 Analyzed: 06/14/23

1,1,2,2-Tetrachloroethane	9.63	0.50	µg/L	10.0		96.3	70-130	2.06	25	
Tetrachloroethylene	11.1	1.0	µg/L	10.0		111	70-130	1.91	25	
Toluene	10.9	1.0	µg/L	10.0		109	70-130	2.41	25	
1,2,3-Trichlorobenzene	9.84	5.0	µg/L	10.0		98.4	70-130	2.05	25	
1,2,4-Trichlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130	3.09	25	
1,1,1-Trichloroethane	9.93	1.0	µg/L	10.0		99.3	70-130	1.32	25	
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130	1.76	25	
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	5.83	25	
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101	70-130	3.95	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	1.0	µg/L	10.0		105	70-130	7.11	25	
Vinyl Chloride	11.8	2.0	µg/L	10.0		118	40-160	3.02	25	†
m+p Xylene	21.4	2.0	µg/L	20.0		107	70-130	2.22	25	
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130	4.68	25	
Xylenes (total)	31.7	1.0	µg/L	30.0		106	0-200	3.01		
Surrogate: 1,2-Dichloroethane-d4	23.4		µg/L	25.0		93.7	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.4	70-130			

Batch B343051 - SW-846 5030B
Blank (B343051-BLK1)

Prepared: 06/13/23 Analyzed: 06/15/23

Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343051 - SW-846 5030B
Blank (B343051-BLK1)

Prepared: 06/13/23 Analyzed: 06/15/23

2-Hexanone (MBK)	ND	10	µg/L							L-04, V-05
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							V-05
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.6		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	22.9		µg/L	25.0		91.6	70-130			

LCS (B343051-BS1)

Prepared: 06/13/23 Analyzed: 06/15/23

Acetone	98.4	50	µg/L	100		98.4	70-160			†
Benzene	10.8	1.0	µg/L	10.0		108	70-130			
Bromochloromethane	10.8	1.0	µg/L	10.0		108	70-130			
Bromodichloromethane	9.80	0.50	µg/L	10.0		98.0	70-130			
Bromoform	8.61	1.0	µg/L	10.0		86.1	70-130			
Bromomethane	11.2	2.0	µg/L	10.0		112	40-160			†
2-Butanone (MEK)	104	20	µg/L	100		104	40-160			†
Carbon Disulfide	99.0	5.0	µg/L	100		99.0	70-130			
Carbon Tetrachloride	9.88	5.0	µg/L	10.0		98.8	70-130			
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Chlorodibromomethane	9.51	0.50	µg/L	10.0		95.1	70-130			
Chloroethane	9.65	2.0	µg/L	10.0		96.5	70-130			
Chloroform	10.2	2.0	µg/L	10.0		102	70-130			
Chloromethane	29.1	2.0	µg/L	10.0		291 *	40-160		L-06, V-06	†
Cyclohexane	9.62	5.0	µg/L	10.0		96.2	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.73	5.0	µg/L	10.0		87.3	70-130			
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102	70-130			
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
Dichlorodifluoromethane (Freon 12)	9.90	2.0	µg/L	10.0		99.0	40-160			†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloroethane	9.76	1.0	µg/L	10.0		97.6	70-130			
1,1-Dichloroethylene	9.29	1.0	µg/L	10.0		92.9	70-130			
cis-1,2-Dichloroethylene	9.94	1.0	µg/L	10.0		99.4	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343051 - SW-846 5030B
LCS (B343051-BS1)

Prepared: 06/13/23 Analyzed: 06/15/23

trans-1,2-Dichloroethylene	9.26	1.0	µg/L	10.0		92.6	70-130			
1,2-Dichloropropane	10.5	1.0	µg/L	10.0		105	70-130			
cis-1,3-Dichloropropene	9.76	0.50	µg/L	10.0		97.6	70-130			
trans-1,3-Dichloropropene	9.11	0.50	µg/L	10.0		91.1	70-130			
1,4-Dioxane	83.0	50	µg/L	100		83.0	40-130			†
Ethylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
2-Hexanone (MBK)	69.8	10	µg/L	100		69.8	* 70-160			L-04, V-05 †
Isopropylbenzene (Cumene)	9.66	1.0	µg/L	10.0		96.6	70-130			
Methyl Acetate	7.71	1.0	µg/L	10.0		77.1	70-130			V-05
Methyl tert-Butyl Ether (MTBE)	9.27	1.0	µg/L	10.0		92.7	70-130			
Methyl Cyclohexane	9.92	1.0	µg/L	10.0		99.2	70-130			
Methylene Chloride	9.90	5.0	µg/L	10.0		99.0	70-130			
4-Methyl-2-pentanone (MIBK)	81.3	10	µg/L	100		81.3	70-160			†
Styrene	10.1	1.0	µg/L	10.0		101	70-130			
1,1,2,2-Tetrachloroethane	9.74	0.50	µg/L	10.0		97.4	70-130			
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
Toluene	10.4	1.0	µg/L	10.0		104	70-130			
1,2,3-Trichlorobenzene	8.66	5.0	µg/L	10.0		86.6	70-130			
1,2,4-Trichlorobenzene	8.76	1.0	µg/L	10.0		87.6	70-130			
1,1,1-Trichloroethane	10.0	1.0	µg/L	10.0		100	70-130			
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
Trichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
Trichlorofluoromethane (Freon 11)	9.49	2.0	µg/L	10.0		94.9	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.38	1.0	µg/L	10.0		93.8	70-130			
Vinyl Chloride	11.1	2.0	µg/L	10.0		111	40-160			†
m+p Xylene	20.4	2.0	µg/L	20.0		102	70-130			
o-Xylene	9.83	1.0	µg/L	10.0		98.3	70-130			
Xylenes (total)	30.3	1.0	µg/L	30.0		101	0-200			
Surrogate: 1,2-Dichloroethane-d4	24.8		µg/L	25.0		99.2	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.0		97.8	70-130			

LCS Dup (B343051-BS1)

Prepared: 06/13/23 Analyzed: 06/15/23

Acetone	91.1	50	µg/L	100		91.1	70-160	7.72	25	†
Benzene	11.0	1.0	µg/L	10.0		110	70-130	1.65	25	
Bromochloromethane	11.2	1.0	µg/L	10.0		112	70-130	2.82	25	
Bromodichloromethane	9.91	0.50	µg/L	10.0		99.1	70-130	1.12	25	
Bromoform	8.19	1.0	µg/L	10.0		81.9	70-130	5.00	25	
Bromomethane	11.4	2.0	µg/L	10.0		114	40-160	2.30	25	†
2-Butanone (MEK)	97.3	20	µg/L	100		97.3	40-160	6.83	25	†
Carbon Disulfide	102	5.0	µg/L	100		102	70-130	2.81	25	
Carbon Tetrachloride	9.96	5.0	µg/L	10.0		99.6	70-130	0.806	25	
Chlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	2.61	25	
Chlorodibromomethane	9.49	0.50	µg/L	10.0		94.9	70-130	0.211	25	
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130	5.15	25	
Chloroform	10.3	2.0	µg/L	10.0		103	70-130	0.978	25	
Chloromethane	30.2	2.0	µg/L	10.0		302	* 40-160	3.78	25	L-06, V-06 †
Cyclohexane	10.6	5.0	µg/L	10.0		106	70-130	9.22	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.13	5.0	µg/L	10.0		81.3	70-130	7.12	25	
1,2-Dibromoethane (EDB)	9.97	0.50	µg/L	10.0		99.7	70-130	2.48	25	
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	0.489	25	
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	0.195	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343051 - SW-846 5030B
LCS Dup (B343051-BSD1)

Prepared: 06/13/23 Analyzed: 06/15/23

1,4-Dichlorobenzene	9.56	1.0	µg/L	10.0		95.6	70-130	7.84	25	
Dichlorodifluoromethane (Freon 12)	10.8	2.0	µg/L	10.0		108	40-160	8.79	25	†
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130	2.71	25	
1,2-Dichloroethane	9.53	1.0	µg/L	10.0		95.3	70-130	2.38	25	
1,1-Dichloroethylene	9.83	1.0	µg/L	10.0		98.3	70-130	5.65	25	
cis-1,2-Dichloroethylene	9.75	1.0	µg/L	10.0		97.5	70-130	1.93	25	
trans-1,2-Dichloroethylene	9.27	1.0	µg/L	10.0		92.7	70-130	0.108	25	
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	70-130	3.49	25	
cis-1,3-Dichloropropene	9.83	0.50	µg/L	10.0		98.3	70-130	0.715	25	
trans-1,3-Dichloropropene	9.25	0.50	µg/L	10.0		92.5	70-130	1.53	25	
1,4-Dioxane	72.3	50	µg/L	100		72.3	40-130	13.7	50	† ‡
Ethylbenzene	10.5	1.0	µg/L	10.0		105	70-130	3.28	25	
2-Hexanone (MBK)	65.1	10	µg/L	100		65.1	* 70-160	7.04	25	L-04, V-05 †
Isopropylbenzene (Cumene)	9.98	1.0	µg/L	10.0		99.8	70-130	3.26	25	
Methyl Acetate	7.36	1.0	µg/L	10.0		73.6	70-130	4.64	25	V-05
Methyl tert-Butyl Ether (MTBE)	9.26	1.0	µg/L	10.0		92.6	70-130	0.108	25	
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106	70-130	6.25	25	
Methylene Chloride	9.88	5.0	µg/L	10.0		98.8	70-130	0.202	25	
4-Methyl-2-pentanone (MIBK)	76.2	10	µg/L	100		76.2	70-160	6.56	25	†
Styrene	10.2	1.0	µg/L	10.0		102	70-130	1.18	25	
1,1,2,2-Tetrachloroethane	9.51	0.50	µg/L	10.0		95.1	70-130	2.39	25	
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130	1.62	25	
Toluene	10.6	1.0	µg/L	10.0		106	70-130	1.34	25	
1,2,3-Trichlorobenzene	8.59	5.0	µg/L	10.0		85.9	70-130	0.812	25	
1,2,4-Trichlorobenzene	8.76	1.0	µg/L	10.0		87.6	70-130	0.00	25	
1,1,1-Trichloroethane	9.83	1.0	µg/L	10.0		98.3	70-130	2.01	25	
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	0.481	25	
Trichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	0.0968	25	
Trichlorofluoromethane (Freon 11)	9.82	2.0	µg/L	10.0		98.2	70-130	3.42	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	1.0	µg/L	10.0		100	70-130	6.80	25	
Vinyl Chloride	11.2	2.0	µg/L	10.0		112	40-160	1.08	25	†
m+p Xylene	21.1	2.0	µg/L	20.0		106	70-130	3.13	25	
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130	3.20	25	
Xylenes (total)	31.2	1.0	µg/L	30.0		104	0-200	3.15		
Surrogate: 1,2-Dichloroethane-d4	24.8		µg/L	25.0		99.2	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.9		µg/L	25.0		95.6	70-130			

Batch B343454 - SW-846 5030B
Blank (B343454-BLK1)

Prepared: 06/16/23 Analyzed: 06/19/23

Acetone	ND	50	µg/L							V-05
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-05
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343454 - SW-846 5030B										
Blank (B343454-BLK1)				Prepared: 06/16/23 Analyzed: 06/19/23						
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							R-05, V-34
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							V-34
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							V-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,3-Trimethylbenzene	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	26.2		µg/L	25.0		105	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		95.8	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343454 - SW-846 5030B										
LCS (B343454-BS1)										
Prepared: 06/16/23 Analyzed: 06/19/23										
Acetone	73.9	50	µg/L	100		73.9	70-160			V-05 †
Benzene	10.8	1.0	µg/L	10.0		108	70-130			
Bromochloromethane	12.7	1.0	µg/L	10.0		127	70-130			V-20
Bromodichloromethane	10.8	0.50	µg/L	10.0		108	70-130			
Bromoform	9.10	1.0	µg/L	10.0		91.0	70-130			
Bromomethane	8.64	2.0	µg/L	10.0		86.4	40-160			†
2-Butanone (MEK)	104	20	µg/L	100		104	40-160			†
tert-Butyl Alcohol (TBA)	65.7	20	µg/L	100		65.7	40-160			V-05 †
Carbon Disulfide	92.1	5.0	µg/L	100		92.1	70-130			
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130			
Chlorobenzene	10.1	1.0	µg/L	10.0		101	70-130			
Chlorodibromomethane	10.8	0.50	µg/L	10.0		108	70-130			
Chloroethane	9.39	2.0	µg/L	10.0		93.9	70-130			
Chloroform	11.0	2.0	µg/L	10.0		110	70-130			
Chloromethane	10.6	2.0	µg/L	10.0		106	40-160			R-05, V-34 †
Cyclohexane	11.7	5.0	µg/L	10.0		117	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.33	5.0	µg/L	10.0		93.3	70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130			
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
Dichlorodifluoromethane (Freon 12)	8.46	2.0	µg/L	10.0		84.6	40-160			V-34 †
1,1-Dichloroethane	12.1	1.0	µg/L	10.0		121	70-130			
1,2-Dichloroethane	9.96	1.0	µg/L	10.0		99.6	70-130			
1,1-Dichloroethylene	7.77	1.0	µg/L	10.0		77.7	70-130			
cis-1,2-Dichloroethylene	11.8	1.0	µg/L	10.0		118	70-130			
trans-1,2-Dichloroethylene	11.7	1.0	µg/L	10.0		117	70-130			
1,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	70-130			
cis-1,3-Dichloropropene	11.7	0.50	µg/L	10.0		117	70-130			
trans-1,3-Dichloropropene	11.6	0.50	µg/L	10.0		116	70-130			
1,4-Dioxane	82.4	50	µg/L	100		82.4	40-130			†
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
2-Hexanone (MBK)	118	10	µg/L	100		118	70-160			†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130			
Methyl Acetate	8.93	1.0	µg/L	10.0		89.3	70-130			
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.0		106	70-130			
Methyl Cyclohexane	10.4	1.0	µg/L	10.0		104	70-130			
Methylene Chloride	9.48	5.0	µg/L	10.0		94.8	70-130			
4-Methyl-2-pentanone (MIBK)	118	10	µg/L	100		118	70-160			†
Styrene	10.6	1.0	µg/L	10.0		106	70-130			
1,1,2,2-Tetrachloroethane	9.89	0.50	µg/L	10.0		98.9	70-130			
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
Toluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	10.0	5.0	µg/L	10.0		100	70-130			
1,2,4-Trichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130			
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	7.10	2.0	µg/L	10.0		71.0	70-130			V-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.33	1.0	µg/L	10.0		83.3	70-130			
1,2,3-Trimethylbenzene	10.4	0.50	µg/L	10.0		104	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343454 - SW-846 5030B										
LCS (B343454-BS1)										
Prepared: 06/16/23 Analyzed: 06/19/23										
1,2,4-Trimethylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
Vinyl Chloride	11.6	2.0	µg/L	10.0		116	40-160			†
m+p Xylene	20.6	2.0	µg/L	20.0		103	70-130			
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130			
Xylenes (total)	31.1	1.0	µg/L	30.0		104	0-200			
Surrogate: 1,2-Dichloroethane-d4	26.2		µg/L	25.0		105	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.4	70-130			
LCS Dup (B343454-BSD1)										
Prepared: 06/16/23 Analyzed: 06/19/23										
Acetone	79.0	50	µg/L	100		79.0	70-160	6.63	25	V-05 †
Benzene	10.9	1.0	µg/L	10.0		109	70-130	0.368	25	
Bromochloromethane	12.6	1.0	µg/L	10.0		126	70-130	0.552	25	V-20
Bromodichloromethane	10.2	0.50	µg/L	10.0		102	70-130	5.63	25	
Bromoform	9.16	1.0	µg/L	10.0		91.6	70-130	0.657	25	
Bromomethane	8.41	2.0	µg/L	10.0		84.1	40-160	2.70	25	†
2-Butanone (MEK)	110	20	µg/L	100		110	40-160	5.83	25	†
tert-Butyl Alcohol (TBA)	73.3	20	µg/L	100		73.3	40-160	11.0	25	V-05 †
Carbon Disulfide	80.6	5.0	µg/L	100		80.6	70-130	13.3	25	
Carbon Tetrachloride	10.6	5.0	µg/L	10.0		106	70-130	1.33	25	
Chlorobenzene	9.56	1.0	µg/L	10.0		95.6	70-130	5.59	25	
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	70-130	3.86	25	
Chloroethane	8.45	2.0	µg/L	10.0		84.5	70-130	10.5	25	
Chloroform	11.0	2.0	µg/L	10.0		110	70-130	0.546	25	
Chloromethane	8.19	2.0	µg/L	10.0		81.9	40-160	25.2 *	25	R-05, V-34 †
Cyclohexane	11.2	5.0	µg/L	10.0		112	70-130	4.62	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.98	5.0	µg/L	10.0		99.8	70-130	6.73	25	
1,2-Dibromoethane (EDB)	9.71	0.50	µg/L	10.0		97.1	70-130	7.15	25	
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	5.44	25	
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	6.10	25	
1,4-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130	1.97	25	
Dichlorodifluoromethane (Freon 12)	8.03	2.0	µg/L	10.0		80.3	40-160	5.22	25	V-34 †
1,1-Dichloroethane	11.9	1.0	µg/L	10.0		119	70-130	1.67	25	
1,2-Dichloroethane	9.55	1.0	µg/L	10.0		95.5	70-130	4.20	25	
1,1-Dichloroethylene	7.88	1.0	µg/L	10.0		78.8	70-130	1.41	25	
cis-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	3.63	25	
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130	7.10	25	
1,2-Dichloropropane	11.1	1.0	µg/L	10.0		111	70-130	4.68	25	
cis-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113	70-130	3.66	25	
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130	3.16	25	
1,4-Dioxane	82.0	50	µg/L	100		82.0	40-130	0.450	50	† ‡
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	2.47	25	
2-Hexanone (MBK)	119	10	µg/L	100		119	70-160	0.337	25	†
Isopropylbenzene (Cumene)	9.51	1.0	µg/L	10.0		95.1	70-130	6.81	25	
Methyl Acetate	8.85	1.0	µg/L	10.0		88.5	70-130	0.900	25	
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108	70-130	2.06	25	
Methyl Cyclohexane	9.42	1.0	µg/L	10.0		94.2	70-130	9.41	25	
Methylene Chloride	8.98	5.0	µg/L	10.0		89.8	70-130	5.42	25	
4-Methyl-2-pentanone (MIBK)	118	10	µg/L	100		118	70-160	0.347	25	†
Styrene	10.2	1.0	µg/L	10.0		102	70-130	3.94	25	
1,1,2,2-Tetrachloroethane	9.48	0.50	µg/L	10.0		94.8	70-130	4.23	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343454 - SW-846 5030B
LCS Dup (B343454-BSD1)

Prepared: 06/16/23 Analyzed: 06/19/23

Tetrachloroethylene	9.93	1.0	µg/L	10.0		99.3	70-130	5.87	25	
Toluene	10.3	1.0	µg/L	10.0		103	70-130	2.68	25	
1,2,3-Trichlorobenzene	10.0	5.0	µg/L	10.0		100	70-130	0.100	25	
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130	3.05	25	
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130	2.34	25	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	5.47	25	
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	0.0982	25	
Trichlorofluoromethane (Freon 11)	6.91	2.0	µg/L	10.0		69.1	* 70-130	2.71	25	L-07, V-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.18	1.0	µg/L	10.0		81.8	70-130	1.82	25	
1,2,3-Trimethylbenzene	9.76	0.50	µg/L	10.0		97.6	70-130	5.87	25	
1,2,4-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	3.40	25	
1,3,5-Trimethylbenzene	9.70	1.0	µg/L	10.0		97.0	70-130	7.92	25	
Vinyl Chloride	10.4	2.0	µg/L	10.0		104	40-160	10.9	25	†
m+p Xylene	20.2	2.0	µg/L	20.0		101	70-130	1.87	25	
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130	3.09	25	
Xylenes (total)	30.4	1.0	µg/L	30.0		101	0-200	2.28		
Surrogate: 1,2-Dichloroethane-d4	26.6		µg/L	25.0		106	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	23.9		µg/L	25.0		95.5	70-130			

Batch B343729 - SW-846 5030B
Blank (B343729-BLK1)

Prepared & Analyzed: 06/20/23

Acetone	ND	50	µg/L							V-05
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05, V-34
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							V-34
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							V-05
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343729 - SW-846 5030B										
Blank (B343729-BLK1)										
Prepared & Analyzed: 06/20/23										
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							L-04, V-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.4		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.3		µg/L	25.0		93.4	70-130			
LCS (B343729-BS1)										
Prepared & Analyzed: 06/20/23										
Acetone	70.1	50	µg/L	100		70.1	70-160			V-05 †
Benzene	10.6	1.0	µg/L	10.0		106	70-130			
Bromochloromethane	12.6	1.0	µg/L	10.0		126	70-130			V-20
Bromodichloromethane	10.4	0.50	µg/L	10.0		104	70-130			
Bromoform	9.58	1.0	µg/L	10.0		95.8	70-130			
Bromomethane	7.22	2.0	µg/L	10.0		72.2	40-160			†
2-Butanone (MEK)	105	20	µg/L	100		105	40-160			†
Carbon Disulfide	88.4	5.0	µg/L	100		88.4	70-130			
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103	70-130			
Chlorobenzene	9.81	1.0	µg/L	10.0		98.1	70-130			
Chlorodibromomethane	10.7	0.50	µg/L	10.0		107	70-130			
Chloroethane	8.27	2.0	µg/L	10.0		82.7	70-130			
Chloroform	10.7	2.0	µg/L	10.0		107	70-130			
Chloromethane	7.52	2.0	µg/L	10.0		75.2	40-160			V-05, V-34 †
Cyclohexane	11.1	5.0	µg/L	10.0		111	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.80	5.0	µg/L	10.0		98.0	70-130			
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130			
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,4-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
Dichlorodifluoromethane (Freon 12)	7.70	2.0	µg/L	10.0		77.0	40-160			V-34 †
1,1-Dichloroethane	11.7	1.0	µg/L	10.0		117	70-130			
1,2-Dichloroethane	9.93	1.0	µg/L	10.0		99.3	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343729 - SW-846 5030B
LCS (B343729-BS1)

Prepared & Analyzed: 06/20/23

1,1-Dichloroethylene	7.78	1.0	µg/L	10.0		77.8	70-130			V-05
cis-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130			
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dichloropropane	11.3	1.0	µg/L	10.0		113	70-130			
cis-1,3-Dichloropropene	11.9	0.50	µg/L	10.0		119	70-130			
trans-1,3-Dichloropropene	11.8	0.50	µg/L	10.0		118	70-130			
1,4-Dioxane	80.7	50	µg/L	100		80.7	40-130			†
Ethylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
2-Hexanone (MBK)	120	10	µg/L	100		120	70-160			†
Isopropylbenzene (Cumene)	9.92	1.0	µg/L	10.0		99.2	70-130			
Methyl Acetate	8.26	1.0	µg/L	10.0		82.6	70-130			
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.0		104	70-130			
Methyl Cyclohexane	10.0	1.0	µg/L	10.0		100	70-130			
Methylene Chloride	9.00	5.0	µg/L	10.0		90.0	70-130			
4-Methyl-2-pentanone (MIBK)	120	10	µg/L	100		120	70-160			†
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,2,2-Tetrachloroethane	9.63	0.50	µg/L	10.0		96.3	70-130			
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Toluene	10.3	1.0	µg/L	10.0		103	70-130			
1,2,3-Trichlorobenzene	9.74	5.0	µg/L	10.0		97.4	70-130			
1,2,4-Trichlorobenzene	9.96	1.0	µg/L	10.0		99.6	70-130			
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130			
Trichloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
Trichlorofluoromethane (Freon 11)	6.64	2.0	µg/L	10.0		66.4 *	70-130			L-04, V-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	7.73	1.0	µg/L	10.0		77.3	70-130			
Vinyl Chloride	10.3	2.0	µg/L	10.0		103	40-160			†
m+p Xylene	20.3	2.0	µg/L	20.0		101	70-130			
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130			
Xylenes (total)	30.5	1.0	µg/L	30.0		102	0-200			
Surrogate: 1,2-Dichloroethane-d4	25.6		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.0		97.7	70-130			

LCS Dup (B343729-BSD1)

Prepared & Analyzed: 06/20/23

Acetone	71.9	50	µg/L	100		71.9	70-160	2.51	25	V-05	†
Benzene	10.6	1.0	µg/L	10.0		106	70-130	0.471	25		
Bromochloromethane	12.6	1.0	µg/L	10.0		126	70-130	0.00	25	V-20	
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130	1.80	25		
Bromoform	9.70	1.0	µg/L	10.0		97.0	70-130	1.24	25		
Bromomethane	8.05	2.0	µg/L	10.0		80.5	40-160	10.9	25		†
2-Butanone (MEK)	107	20	µg/L	100		107	40-160	1.93	25		†
Carbon Disulfide	88.6	5.0	µg/L	100		88.6	70-130	0.249	25		
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130	0.489	25		
Chlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	5.07	25		
Chlorodibromomethane	10.5	0.50	µg/L	10.0		105	70-130	2.55	25		
Chloroethane	8.53	2.0	µg/L	10.0		85.3	70-130	3.10	25		
Chloroform	10.9	2.0	µg/L	10.0		109	70-130	1.67	25		
Chloromethane	8.73	2.0	µg/L	10.0		87.3	40-160	14.9	25	V-05, V-34	†
Cyclohexane	11.5	5.0	µg/L	10.0		115	70-130	3.55	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.98	5.0	µg/L	10.0		99.8	70-130	1.82	25		
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103	70-130	2.35	25		

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343729 - SW-846 5030B
LCS Dup (B343729-BSD1)

Prepared & Analyzed: 06/20/23

1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.00	25	
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	1.53	25	
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	2.26	25	
Dichlorodifluoromethane (Freon 12)	7.82	2.0	µg/L	10.0		78.2	40-160	1.55	25	V-34 †
1,1-Dichloroethane	11.8	1.0	µg/L	10.0		118	70-130	0.848	25	
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130	0.702	25	
1,1-Dichloroethylene	7.83	1.0	µg/L	10.0		78.3	70-130	0.641	25	V-05
cis-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130	1.13	25	
trans-1,2-Dichloroethylene	11.5	1.0	µg/L	10.0		115	70-130	3.17	25	
1,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	70-130	1.05	25	
cis-1,3-Dichloropropene	12.0	0.50	µg/L	10.0		120	70-130	0.587	25	
trans-1,3-Dichloropropene	11.5	0.50	µg/L	10.0		115	70-130	3.26	25	
1,4-Dioxane	85.1	50	µg/L	100		85.1	40-130	5.37	50	† ‡
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	3.56	25	
2-Hexanone (MBK)	120	10	µg/L	100		120	70-160	0.167	25	†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.0		101	70-130	1.60	25	
Methyl Acetate	8.32	1.0	µg/L	10.0		83.2	70-130	0.724	25	
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.0		105	70-130	1.15	25	
Methyl Cyclohexane	9.91	1.0	µg/L	10.0		99.1	70-130	1.40	25	
Methylene Chloride	9.17	5.0	µg/L	10.0		91.7	70-130	1.87	25	
4-Methyl-2-pentanone (MIBK)	122	10	µg/L	100		122	70-160	2.04	25	†
Styrene	10.5	1.0	µg/L	10.0		105	70-130	1.24	25	
1,1,2,2-Tetrachloroethane	9.95	0.50	µg/L	10.0		99.5	70-130	3.27	25	
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130	0.391	25	
Toluene	10.5	1.0	µg/L	10.0		105	70-130	1.35	25	
1,2,3-Trichlorobenzene	10.0	5.0	µg/L	10.0		100	70-130	3.03	25	
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130	0.700	25	
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	3.24	25	
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130	0.842	25	
Trichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	2.46	25	
Trichlorofluoromethane (Freon 11)	6.72	2.0	µg/L	10.0		67.2 *	70-130	1.20	25	L-04, V-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	7.99	1.0	µg/L	10.0		79.9	70-130	3.31	25	
Vinyl Chloride	10.4	2.0	µg/L	10.0		104	40-160	0.964	25	†
m+p Xylene	20.8	2.0	µg/L	20.0		104	70-130	2.82	25	
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130	2.90	25	
Xylenes (total)	31.4	1.0	µg/L	30.0		105	0-200	2.85		
Surrogate: 1,2-Dichloroethane-d4	25.4		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.4	70-130			

Matrix Spike (B343729-MS1)
Source: 23F1274-10

Prepared & Analyzed: 06/20/23

Acetone	128	100	µg/L	200	ND	63.8 *	70-130			MS-07A, V-05
Benzene	22.0	2.0	µg/L	20.0	ND	110	70-130			
Bromochloromethane	26.8	2.0	µg/L	20.0	ND	134 *	70-130			MS-24, V-20
Bromodichloromethane	22.5	1.0	µg/L	20.0	ND	112	70-130			
Bromoform	19.2	2.0	µg/L	20.0	ND	96.0	70-130			
Bromomethane	12.1	4.0	µg/L	20.0	ND	60.5 *	70-130			MS-07A
2-Butanone (MEK)	199	40	µg/L	200	ND	99.4	70-130			
Carbon Disulfide	188	10	µg/L	200	ND	93.8	70-130			
Carbon Tetrachloride	22.2	10	µg/L	20.0	ND	111	70-130			
Chlorobenzene	21.0	2.0	µg/L	20.0	ND	105	70-130			
Chlorodibromomethane	21.9	1.0	µg/L	20.0	ND	109	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343729 - SW-846 5030B										
Matrix Spike (B343729-MS1)	Source: 23F1274-10			Prepared & Analyzed: 06/20/23						
Chloroethane	17.0	4.0	µg/L	20.0	ND	85.2	70-130			
Chloroform	22.8	4.0	µg/L	20.0	ND	114	70-130			
Chloromethane	7.04	4.0	µg/L	20.0	ND	35.2 *	70-130			MS-07A, R-06, V-05, V-34
Cyclohexane	24.5	10	µg/L	20.0	ND	122	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	16.5	10	µg/L	20.0	ND	82.3	70-130			
1,2-Dibromoethane (EDB)	20.9	1.0	µg/L	20.0	ND	104	70-130			
1,2-Dichlorobenzene	21.0	2.0	µg/L	20.0	ND	105	70-130			
1,3-Dichlorobenzene	21.6	2.0	µg/L	20.0	ND	108	70-130			
1,4-Dichlorobenzene	20.8	2.0	µg/L	20.0	ND	104	70-130			
Dichlorodifluoromethane (Freon 12)	16.8	4.0	µg/L	20.0	ND	84.2	70-130			V-34
1,1-Dichloroethane	24.7	2.0	µg/L	20.0	ND	124	70-130			
1,2-Dichloroethane	21.1	2.0	µg/L	20.0	ND	106	70-130			
1,1-Dichloroethylene	16.5	2.0	µg/L	20.0	ND	82.3	70-130			V-05
cis-1,2-Dichloroethylene	25.9	2.0	µg/L	20.0	1.96	120	70-130			
trans-1,2-Dichloroethylene	25.7	2.0	µg/L	20.0	1.44	122	70-130			
1,2-Dichloropropane	24.0	2.0	µg/L	20.0	ND	120	70-130			
cis-1,3-Dichloropropene	22.8	1.0	µg/L	20.0	ND	114	70-130			
trans-1,3-Dichloropropene	22.6	1.0	µg/L	20.0	ND	113	70-130			
1,4-Dioxane	132	100	µg/L	200	ND	66.2 *	70-130			MS-07A
Ethylbenzene	22.1	2.0	µg/L	20.0	ND	110	70-130			
2-Hexanone (MBK)	228	20	µg/L	200	ND	114	70-130			
Isopropylbenzene (Cumene)	21.1	2.0	µg/L	20.0	ND	106	70-130			
Methyl Acetate	14.2	2.0	µg/L	20.0	ND	70.9	70-130			
Methyl tert-Butyl Ether (MTBE)	20.5	2.0	µg/L	20.0	ND	102	70-130			
Methyl Cyclohexane	21.6	2.0	µg/L	20.0	ND	108	70-130			
Methylene Chloride	19.1	10	µg/L	20.0	ND	95.4	70-130			
4-Methyl-2-pentanone (MIBK)	231	20	µg/L	200	ND	115	70-130			
Styrene	21.5	2.0	µg/L	20.0	ND	108	70-130			
1,1,2,2-Tetrachloroethane	19.2	1.0	µg/L	20.0	ND	95.9	70-130			
Tetrachloroethylene	143	2.0	µg/L	20.0	112	156 *	70-130			MS-24
Toluene	22.9	2.0	µg/L	20.0	ND	114	70-130			
1,2,3-Trichlorobenzene	15.0	10	µg/L	20.0	ND	75.1	70-130			
1,2,4-Trichlorobenzene	17.7	2.0	µg/L	20.0	ND	88.7	70-130			
1,1,1-Trichloroethane	22.6	2.0	µg/L	20.0	ND	113	70-130			
1,1,2-Trichloroethane	21.6	2.0	µg/L	20.0	ND	108	70-130			
Trichloroethylene	63.3	2.0	µg/L	20.0	36.2	136 *	70-130			MS-24
Trichlorofluoromethane (Freon 11)	14.5	4.0	µg/L	20.0	ND	72.5	70-130			L-04, V-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	17.0	2.0	µg/L	20.0	ND	84.8	70-130			
Vinyl Chloride	21.5	4.0	µg/L	20.0	ND	108	70-130			
m+p Xylene	42.9	4.0	µg/L	40.0	ND	107	70-130			
o-Xylene	21.6	2.0	µg/L	20.0	ND	108	70-130			
Xylenes (total)	64.5	2.0	µg/L	60.0	ND	108	0-200			
Surrogate: 1,2-Dichloroethane-d4	25.4		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	24.5		µg/L	25.0		97.9	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343729 - SW-846 5030B										
Matrix Spike Dup (B343729-MSD1)		Source: 23F1274-10			Prepared & Analyzed: 06/20/23					
Acetone	119	100	µg/L	200	ND	59.3 *	70-130	7.36	30	MS-07A, V-05
Benzene	20.7	2.0	µg/L	20.0	ND	104	70-130	5.91	30	
Bromochloromethane	24.0	2.0	µg/L	20.0	ND	120	70-130	10.7	30	V-20
Bromodichloromethane	19.4	1.0	µg/L	20.0	ND	96.9	70-130	14.9	30	
Bromoform	16.3	2.0	µg/L	20.0	ND	81.4	70-130	16.5	30	
Bromomethane	12.7	4.0	µg/L	20.0	ND	63.6 *	70-130	5.00	30	MS-07A
2-Butanone (MEK)	185	40	µg/L	200	ND	92.4	70-130	7.23	30	
Carbon Disulfide	177	10	µg/L	200	ND	88.7	70-130	5.51	30	
Carbon Tetrachloride	20.7	10	µg/L	20.0	ND	104	70-130	6.81	30	
Chlorobenzene	19.0	2.0	µg/L	20.0	ND	95.0	70-130	10.1	30	
Chlorodibromomethane	19.5	1.0	µg/L	20.0	ND	97.6	70-130	11.3	30	
Chloroethane	16.9	4.0	µg/L	20.0	ND	84.7	70-130	0.589	30	
Chloroform	20.7	4.0	µg/L	20.0	ND	103	70-130	9.84	30	
Chloromethane	10.3	4.0	µg/L	20.0	ND	51.7 *	70-130	38.0 *	30	MS-07A, R-06, V-05, V-34
Cyclohexane	22.8	10	µg/L	20.0	ND	114	70-130	7.02	30	
1,2-Dibromo-3-chloropropane (DBCP)	16.5	10	µg/L	20.0	ND	82.7	70-130	0.485	30	
1,2-Dibromoethane (EDB)	18.8	1.0	µg/L	20.0	ND	94.1	70-130	10.3	30	
1,2-Dichlorobenzene	19.7	2.0	µg/L	20.0	ND	98.4	70-130	6.58	30	
1,3-Dichlorobenzene	19.1	2.0	µg/L	20.0	ND	95.7	70-130	12.0	30	
1,4-Dichlorobenzene	18.9	2.0	µg/L	20.0	ND	94.6	70-130	9.37	30	
Dichlorodifluoromethane (Freon 12)	15.6	4.0	µg/L	20.0	ND	78.1	70-130	7.52	30	V-34
1,1-Dichloroethane	23.5	2.0	µg/L	20.0	ND	118	70-130	5.14	30	
1,2-Dichloroethane	18.9	2.0	µg/L	20.0	ND	94.4	70-130	11.2	30	
1,1-Dichloroethylene	15.6	2.0	µg/L	20.0	ND	77.8	70-130	5.62	30	V-05
cis-1,2-Dichloroethylene	24.4	2.0	µg/L	20.0	1.96	112	70-130	5.81	30	
trans-1,2-Dichloroethylene	23.9	2.0	µg/L	20.0	1.44	112	70-130	7.41	30	
1,2-Dichloropropane	21.5	2.0	µg/L	20.0	ND	108	70-130	10.8	30	
cis-1,3-Dichloropropene	21.5	1.0	µg/L	20.0	ND	107	70-130	6.14	30	
trans-1,3-Dichloropropene	20.2	1.0	µg/L	20.0	ND	101	70-130	11.3	30	
1,4-Dioxane	121	100	µg/L	200	ND	60.5 *	70-130	8.94	30	MS-07A
Ethylbenzene	19.9	2.0	µg/L	20.0	ND	99.7	70-130	10.2	30	
2-Hexanone (MBK)	207	20	µg/L	200	ND	103	70-130	9.63	30	
Isopropylbenzene (Cumene)	19.0	2.0	µg/L	20.0	ND	95.2	70-130	10.4	30	
Methyl Acetate	12.5	2.0	µg/L	20.0	ND	62.6 *	70-130	12.4	30	MS-24
Methyl tert-Butyl Ether (MTBE)	18.5	2.0	µg/L	20.0	ND	92.5	70-130	10.1	30	
Methyl Cyclohexane	19.5	2.0	µg/L	20.0	ND	97.7	70-130	10.0	30	
Methylene Chloride	16.9	10	µg/L	20.0	ND	84.7	70-130	11.9	30	
4-Methyl-2-pentanone (MIBK)	207	20	µg/L	200	ND	104	70-130	10.8	30	
Styrene	19.2	2.0	µg/L	20.0	ND	96.1	70-130	11.3	30	
1,1,2,2-Tetrachloroethane	16.9	1.0	µg/L	20.0	ND	84.7	70-130	12.4	30	
Tetrachloroethylene	131	2.0	µg/L	20.0	112	98.5	70-130	8.44	30	
Toluene	20.5	2.0	µg/L	20.0	ND	102	70-130	11.0	30	
1,2,3-Trichlorobenzene	17.0	10	µg/L	20.0	ND	85.1	70-130	12.5	30	
1,2,4-Trichlorobenzene	17.9	2.0	µg/L	20.0	ND	89.3	70-130	0.674	30	
1,1,1-Trichloroethane	21.4	2.0	µg/L	20.0	ND	107	70-130	5.73	30	
1,1,2-Trichloroethane	19.6	2.0	µg/L	20.0	ND	97.8	70-130	9.91	30	
Trichloroethylene	58.9	2.0	µg/L	20.0	36.2	113	70-130	7.23	30	
Trichlorofluoromethane (Freon 11)	13.4	4.0	µg/L	20.0	ND	66.8 *	70-130	8.18	30	L-04, MS-22, V-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	15.4	2.0	µg/L	20.0	ND	77.0	70-130	9.64	30	
Vinyl Chloride	20.6	4.0	µg/L	20.0	ND	103	70-130	4.27	30	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343729 - SW-846 5030B

Matrix Spike Dup (B343729-MSD1)		Source: 23F1274-10		Prepared & Analyzed: 06/20/23						
m+p Xylene	39.0	4.0	µg/L	40.0	ND	97.4	70-130	9.62	20	
o-Xylene	19.3	2.0	µg/L	20.0	ND	96.3	70-130	11.5	30	
Xylenes (total)	58.2	2.0	µg/L	60.0	ND	97.1	0-200	10.2		
Surrogate: 1,2-Dichloroethane-d4	25.9		µg/L	25.0		104	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.0		96.4	70-130			

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QUALITY CONTROL
Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B344096 - RSK175
Blank (B344096-BLK1)

Prepared & Analyzed: 06/20/23

Ethane	ND	0.014	mg/L							
Ethene	ND	0.017	mg/L							
Methane	ND	0.0070	mg/L							

LCS (B344096-BS1)

Prepared & Analyzed: 06/20/23

Ethane	0.26		mg/L	0.330		80.0	70.1-110			
Ethene	0.26		mg/L	0.308		83.3	67.5-110			
Methane	0.14		mg/L	0.175		78.9	70.9-110			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342964 - SW-846 3005A
Blank (B342964-BLK1)

Prepared & Analyzed: 06/12/23

Barium	ND	10	µg/L							
Cadmium	ND	0.20	µg/L							
Cobalt	ND	1.0	µg/L							
Copper	0.31	1.0	µg/L							J
Lead	ND	0.50	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Vanadium	ND	5.0	µg/L							

Blank (B342964-BLK2)

Prepared: 06/12/23 Analyzed: 06/14/23

Antimony	ND	1.0	µg/L							
Arsenic	ND	0.80	µg/L							
Beryllium	ND	0.40	µg/L							
Chromium	ND	1.0	µg/L							
Manganese	ND	1.0	µg/L							
Silver	ND	0.20	µg/L							
Thallium	ND	0.20	µg/L							
Zinc	ND	10	µg/L							

LCS (B342964-BS2)

Prepared: 06/12/23 Analyzed: 06/14/23

Antimony	575	10	µg/L	500		115	80-120			
Arsenic	539	8.0	µg/L	500		108	80-120			
Barium	517	100	µg/L	500		103	80-120			
Beryllium	516	4.0	µg/L	500		103	80-120			
Cadmium	531	2.0	µg/L	500		106	80-120			
Chromium	512	10	µg/L	500		102	80-120			
Cobalt	510	10	µg/L	500		102	80-120			
Copper	1020	10	µg/L	1000		102	80-120			
Lead	522	5.0	µg/L	500		104	80-120			
Manganese	521	10	µg/L	500		104	80-120			
Nickel	524	50	µg/L	500		105	80-120			
Selenium	523	50	µg/L	500		105	80-120			
Silver	479	2.0	µg/L	500		95.8	80-120			
Thallium	526	2.0	µg/L	500		105	80-120			
Vanadium	515	50	µg/L	500		103	80-120			
Zinc	1090	100	µg/L	1000		109	80-120			

LCS Dup (B342964-BSD2)

Prepared: 06/12/23 Analyzed: 06/14/23

Antimony	562	10	µg/L	500		112	80-120	2.20	20	
Arsenic	522	8.0	µg/L	500		104	80-120	3.27	20	
Barium	506	100	µg/L	500		101	80-120	2.16	20	
Beryllium	502	4.0	µg/L	500		100	80-120	2.77	20	
Cadmium	521	2.0	µg/L	500		104	80-120	1.83	20	
Chromium	497	10	µg/L	500		99.3	80-120	2.97	20	
Cobalt	505	10	µg/L	500		101	80-120	1.06	20	
Copper	1010	10	µg/L	1000		101	80-120	1.11	20	
Lead	510	5.0	µg/L	500		102	80-120	2.35	20	
Manganese	508	10	µg/L	500		102	80-120	2.50	20	
Nickel	516	50	µg/L	500		103	80-120	1.65	20	
Selenium	509	50	µg/L	500		102	80-120	2.65	20	
Silver	477	2.0	µg/L	500		95.4	80-120	0.412	20	
Thallium	511	2.0	µg/L	500		102	80-120	2.90	20	
Vanadium	502	50	µg/L	500		100	80-120	2.43	20	

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342964 - SW-846 3005A
LCS Dup (B342964-BSD2)

Prepared: 06/12/23 Analyzed: 06/14/23

Zinc	1070	100	µg/L	1000		107	80-120	1.80	20	
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Matrix Spike (B342964-MS1)
Source: 23F1274-10

Prepared: 06/12/23 Analyzed: 06/20/23

Barium	594	100	µg/L	500	80.6	103	75-125			
Cobalt	503	10	µg/L	500	ND	101	75-125			
Lead	513	5.0	µg/L	500	ND	103	75-125			
Nickel	500	50	µg/L	500	ND	99.9	75-125			
Selenium	496	50	µg/L	500	ND	99.3	75-125			
Silver	385	2.0	µg/L	500	ND	77.0	75-125			
Vanadium	517	50	µg/L	500	ND	103	75-125			
Zinc	1020	100	µg/L	1000	ND	102	75-125			

Matrix Spike Dup (B342964-MSD1)
Source: 23F1274-10

Prepared: 06/12/23 Analyzed: 06/20/23

Barium	559	100	µg/L	500	80.6	95.6	75-125	6.12	20	
Cobalt	471	10	µg/L	500	ND	94.2	75-125	6.60	20	
Lead	465	5.0	µg/L	500	ND	93.1	75-125	9.78	20	
Nickel	466	50	µg/L	500	ND	93.3	75-125	6.89	20	
Selenium	454	50	µg/L	500	ND	90.8	75-125	8.93	20	
Silver	366	2.0	µg/L	500	ND	73.3	* 75-125	5.02	20	MS-22
Vanadium	487	50	µg/L	500	ND	97.3	75-125	6.09	20	
Zinc	951	100	µg/L	1000	ND	95.1	75-125	6.99	20	

Batch B342970 - SW-846 3005A
Blank (B342970-BLK1)

Prepared & Analyzed: 06/12/23

Aluminum	ND	0.050	mg/L							
Calcium	ND	0.50	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Potassium	ND	2.0	mg/L							
Sodium	ND	2.0	mg/L							

LCS (B342970-BS1)

Prepared & Analyzed: 06/12/23

Aluminum	0.508	0.050	mg/L	0.500		102	45.3-154.7			
Calcium	4.06	0.50	mg/L	4.00		101	80-120			
Iron	4.16	0.050	mg/L	4.00		104	80-120			
Magnesium	4.03	0.050	mg/L	4.00		101	80-120			
Potassium	4.09	2.0	mg/L	4.00		102	80-120			
Sodium	4.12	2.0	mg/L	4.00		103	80-120			

LCS Dup (B342970-BSD1)

Prepared & Analyzed: 06/12/23

Aluminum	0.525	0.050	mg/L	0.500		105	45.3-154.7	3.30	30	
Calcium	4.11	0.50	mg/L	4.00		103	80-120	1.28	20	
Iron	4.24	0.050	mg/L	4.00		106	80-120	2.04	20	
Magnesium	4.05	0.050	mg/L	4.00		101	80-120	0.569	20	
Potassium	4.13	2.0	mg/L	4.00		103	80-120	0.953	20	
Sodium	4.19	2.0	mg/L	4.00		105	80-120	1.73	20	

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342973 - SW-846 7470A Prep
Blank (B342973-BLK1)

Prepared: 06/12/23 Analyzed: 06/13/23

Mercury ND 0.00020 mg/L

LCS (B342973-BS1)

Prepared: 06/12/23 Analyzed: 06/13/23

Mercury 0.00427 0.00020 mg/L 0.00402 106 80-120

LCS Dup (B342973-BSD1)

Prepared: 06/12/23 Analyzed: 06/13/23

Mercury 0.00430 0.00020 mg/L 0.00402 107 80-120 0.696 20

Batch B343361 - SW-846 7470A Prep
Blank (B343361-BLK1)

Prepared: 06/15/23 Analyzed: 06/16/23

Mercury ND 0.00020 mg/L

LCS (B343361-BS1)

Prepared: 06/15/23 Analyzed: 06/16/23

Mercury 0.00467 0.00020 mg/L 0.00402 116 80-120

LCS Dup (B343361-BSD1)

Prepared: 06/15/23 Analyzed: 06/16/23

Mercury 0.00453 0.00020 mg/L 0.00402 113 80-120 3.01 20

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343099 - SM21-23 4500S-F										
Blank (B343099-BLK1)				Prepared & Analyzed: 06/13/23						
Sulfide	1.6	2.0	mg/L							J
LCS (B343099-BS1)				Prepared & Analyzed: 06/13/23						
Sulfide	10	2.0	mg/L	10.0		104	78.2-125			
Batch B343125 - EPA 300.0										
Blank (B343125-BLK1)				Prepared & Analyzed: 06/10/23						
Sulfate	ND	1.0	mg/L							
LCS (B343125-BS1)				Prepared & Analyzed: 06/10/23						
Sulfate	9.8	1.0	mg/L	10.0		98.0	90-110			
LCS Dup (B343125-BSD1)				Prepared & Analyzed: 06/10/23						
Sulfate	9.8	1.0	mg/L	10.0		98.2	90-110	0.167	20	
Batch B343218 - SM21-23 4500S-F										
Blank (B343218-BLK1)				Prepared & Analyzed: 06/14/23						
Sulfide	1.6	2.0	mg/L							J
LCS (B343218-BS1)				Prepared & Analyzed: 06/14/23						
Sulfide	10	2.0	mg/L	10.0		102	78.2-125			
Matrix Spike (B343218-MS1)				Source: 23F1274-11 Prepared & Analyzed: 06/14/23						
Sulfide	9.20	2.0	mg/L	10.0	ND	92.0	85-115			
Batch B343351 - SM21-23 2320B										
Blank (B343351-BLK1)				Prepared & Analyzed: 06/15/23						
Alkalinity	ND	1.0	mg/L							
Alkalinity to pH 4.2	ND	1.0	mg/L							
Alkalinity to pH 4.5	ND	1.0	mg/L							
LCS (B343351-BS1)				Prepared & Analyzed: 06/15/23						
Alkalinity	ND	1.0	mg/L	61.2		*	88.3-110			
Alkalinity to pH 4.2	ND	1.0	mg/L	61.2		*	88.3-110			
Alkalinity to pH 4.5	60	1.0	mg/L	61.2		98.0	88.3-110			
LCS Dup (B343351-BSD1)				Prepared & Analyzed: 06/15/23						
Alkalinity	ND	1.0	mg/L	61.2		*	88.3-110	NC	5	
Alkalinity to pH 4.2	ND	1.0	mg/L	61.2		*	88.3-110	NC	5	
Alkalinity to pH 4.5	58	1.0	mg/L	61.2		94.8	88.3-110	3.39	5	

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343354 - SM 21-23 5310B										
Blank (B343354-BLK1)				Prepared & Analyzed: 06/15/23						
Total Organic Carbon	ND	1.0	mg/L							
LCS (B343354-BS1)				Prepared & Analyzed: 06/15/23						
Total Organic Carbon	10.3	1.0	mg/L	10.0		103	90-110			
LCS Dup (B343354-BSD1)				Prepared & Analyzed: 06/15/23						
Total Organic Carbon	10.5	1.0	mg/L	10.0		105	90-110	2.56	15	
Batch B343741 - SM 21-23 5310B										
Blank (B343741-BLK1)				Prepared & Analyzed: 06/20/23						
Total Organic Carbon	ND	1.0	mg/L							
LCS (B343741-BS1)				Prepared & Analyzed: 06/20/23						
Total Organic Carbon	10.2	1.0	mg/L	10.0		102	90-110			
LCS Dup (B343741-BSD1)				Prepared & Analyzed: 06/20/23						
Total Organic Carbon	10.1	1.0	mg/L	10.0		101	90-110	0.682	15	
Batch B343918 - EPA 300.0										
Blank (B343918-BLK1)				Prepared & Analyzed: 06/21/23						
Chloride	ND	1.0	mg/L							
Sulfate	ND	1.0	mg/L							
LCS (B343918-BS1)				Prepared & Analyzed: 06/21/23						
Chloride	9.6	1.0	mg/L	10.0		95.8	90-110			
Sulfate	9.3	1.0	mg/L	10.0		93.3	90-110			
LCS Dup (B343918-BSD1)				Prepared & Analyzed: 06/21/23						
Chloride	9.6	1.0	mg/L	10.0		95.7	90-110	0.129	20	
Sulfate	9.4	1.0	mg/L	10.0		93.8	90-110	0.589	20	
Batch B344003 - EPA 1664B										
Blank (B344003-BLK1)				Prepared & Analyzed: 06/22/23						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							
LCS (B344003-BS1)				Prepared & Analyzed: 06/22/23						
Silica Gel Treated HEM (SGT-HEM)	12	1.4	mg/L	10.0		120	64-132			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-06	Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PR-18	Headspace present in sample container.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 300.0 in Water</i>	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
Sulfate	NC,NY,MA,VA,ME,NH,CT,RI
<i>RSK175 in Water</i>	
Ethane	VA,NY,ME
Ethene	VA,NY,ME
Methane	VA,NY,ME
<i>SM 21-23 5310B in Water</i>	
Total Organic Carbon	CT,NH,NY,RI,NC,MA,VA
<i>SM21-23 2320B in Water</i>	
Alkalinity to pH 4.5	CT
<i>SM21-23 4500S-F in Water</i>	
Sulfide	CT,NH,RI,NC,ME,NY
<i>SW-846 6010D in Water</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
<i>SW-846 6020B in Water</i>	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8260D in Water</i>	
Acetone	CT,ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

23F1274



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>.

Section A

Required Client Information:

Company: AECOM-NYSDEC
Address: 40 British American Blvd
Latham, NY 12110
Email: walt.howard@aecom.com
Phone: 518951200 Fax:
Requested Due Date: Stand TAT

Section B

Required Project Information:

Report To: Walt Howard
Copy To:
Purchase Order #:
Project Name: NYSDEC Former Cleanerama 60702147
Project #:

Section C

Invoice information:

Attention: Walt Howard
Company Name: AECOM
Address: 40 British American Blvd Latham NY 12110
Pace Quote:
Pace Project Manager: Kyle Stucky
Pace Profile #:

Page: 1 Of 2

Regulatory Agency

State / Location

NY

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	NY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		TCL VOCs by 8260D	Dissolved Gases M/E/E	TAL Metals + Hg 6020B	Cl, NO2, SO4	Alkalinity	Sulfide	TOC	TPH 1664	PFAS 1633																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

*extra volumetric MS/MSD*10

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
Provide NYS ASP Cat B		Steve Gray, AECOM		6/8/23	1640	Steve Gray, Pace		6-8-23	1640				
Data package and AECOM		Steve Gray, Pace		6-9-23	1430	Chris French, Pace		6/6/23	1430				
Equis EDD		Chris French, Pace		6/9/23	1630	Dominique, H.S.3.1		6/9/23	1630				

For samples -13 and -15, the client was only able to collect environmental water for the vials (VOCs) and could not collect the other parameters. Per client request, please strike the other analyses from the COC to note they are not being analyzed.

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER:						
Steve Gray, Chris French						
		DATE Signed:	6-7-23			

For Nitrate analyses on Samples -06, 08 and -09 through -15, per client request, please omit these since they were received out of hold time. Per client request, all analyses minus PFAS and VOCs can be removed for Sample-10. KKS 6.12.2023

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

Section A

Required Client Information:

Company: AECOM-NYSDEC
 Address: 40 British American Blvd
 Latham, NY 12110
 Email: well.howard@aecom.com
 Phone: 518951200
 Requested Due Date: Strud TAT

Section B

Required Project Information:

Report To: Well Howard
 Copy To:
 Purchase Order #:
 Project Name: NYSDC Former Clearerama 60702147
 Project #:

Section C

Invoice Information:

Attention: Walt Howard
 Company Name: AECOM
 Address: 40 British American Blvd, Latham NY 12110
 Pace Quote:
 Pace Project Manager: Kyle Stuckey
 Pace Profile #:

Page: 2 of 3

Regulatory Agency

State / Location

NY

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on	Ice (Y/N)	Sealed (Y/N)	Custody (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
			START	END																
1	Blank																			
2	MW-2-060723		6/7/23	0930			6/7/23	0930				6/8/23	1640							
3	MW-2-060723		6/7/23	1635			6/7/23	1635				6/9/23	1430							
4	MW-6-060723		6/7/23	1210			6/7/23	1210				6/9/23	1430							
5	MW-14-2-060723		6/7/23	1600			6/7/23	1600				6/9/23	1630							
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS													
							TEMP in C	Received on	Ice (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)								
Provide NYS ABBSP Cat B	Steve Gray	6/8/23	1640	Chris French	6/8/23	1640														
Data package and AECOM	Steve Gray	6-9-23	1730	Chris French	6/9/23	1430														
Fazio EDD	Steve Gray	6/9/23	1630	Chris French	6/9/23	1630														

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

ENV-FRM-ELON-0001 V05__Sample Receiving Checklist

Log In Back-Sheet

Login Sample Receipt Checklist - (Rejection Criteria Listing
- Using Acceptance Policy) Any False statement will be
brought to the attention of the Client - True or False

Client NYDEC-AECOMProject 60702147MCP/RCP Required NODeliverable Package Requirement CAT BLocation NYPWSID# (When Applicable) NA

Arrival Method:

Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time DWW 6/9/03 1630Back-Sheet By / Date / Time SK 6/9/03 2344Temperature Method gun # 5Temp ☒ < 6° C Actual Temperature 2.2, 4.5, 31Rush Samples: Yes / ☒ No NotifyShort Hold: ☒ Yes ☐ No Notify N/A**Notes regarding Samples/COC outside of SOP:**

Short holds received
past hold, only
received 2 vials for
samples NW-1-060723
and NW-2-060723

True False

Received on Ice ☒ ☐Received in Cooler ☒ ☐Custody Seal: DATE TIME ☐ ☒COC Relinquished ☒ ☐COC/Samples Labels Agree ☒ ☐All Samples in Good Condition ☒ ☐Samples Received within Holding Time ☒ ☐Is there enough Volume ☒ ☐Proper Media/Container Used ☒ ☐Splitting Samples Required ☐ ☒MS/MSD ☒ ☐Trip Blanks ☐ ☒Lab to Filters ☐ ☒COC Legible ☒ ☐

COC Included: (Check all included)

Client ☒Analysis ☒Sampler Name ☒Project ☒IDs ☒Collection Date/Time ☒All Samples Proper pH: N/A ☒ ☐**Additional Container Notes**

[illegible]

June 23, 2023

Walter Howard
AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110

Project Location: NY
Client Job Number:
Project Number: 60702147
Laboratory Work Order Number: 23F1273

Enclosed are results of analyses for samples as received by the laboratory on June 9, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110
ATTN: Walter Howard

REPORT DATE: 6/23/2023

PURCHASE ORDER NUMBER: 401056

PROJECT NUMBER: 60702147

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23F1273

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-4-060823	23F1273-01	Water		SW-846 8260D	
MW-5-060823	23F1273-02	Water		EPA 1664B	
				EPA 300.0	
				RSK175	
				SM 21-23 5310B	
				SM21-23 2320B	
				SM21-23 4500S-F	
				SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260D	
MW-3-060823	23F1273-03	Water		SW-846 8260D	
MW-5A-060823	23F1273-04	Water		SW-846 8260D	
OS-9-060823	23F1273-05	Water		EPA 1664B	
				EPA 300.0	
				RSK175	
				SM 21-23 5310B	
				SM21-23 2320B	
				SM21-23 4500S-F	
				SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260D	
OS-12-060823	23F1273-06	Water		EPA 1664B	
				EPA 300.0	
				RSK175	
				SM 21-23 5310B	
				SM21-23 2320B	
				SM21-23 4500S-F	
				SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260D	
OS-10-060823	23F1273-07	Water		SW-846 8260D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110
ATTN: Walter Howard

REPORT DATE: 6/23/2023

PURCHASE ORDER NUMBER: 401056

PROJECT NUMBER: 60702147

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23F1273

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-10-060823	23F1273-08	Water		EPA 1664B EPA 300.0 RSK175 SM 21-23 5310B SM21-23 2320B SM21-23 4500S-F SW-846 6010D SW-846 6020B SW-846 7470A SW-846 8260D	
DUP-2-060823	23F1273-09	Water		SW-846 8260D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

EPA 300.0**Qualifications:****H-01**

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:**Nitrate as N**

23F1273-02[MW-5-060823], 23F1273-05[OS-9-060823], 23F1273-06[OS-12-060823]

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Chloride**

23F1273-05[OS-9-060823], B343917-MS1

SM21-23 2320B**Qualifications:****PR-18**

Headspace present in sample container.

Analyte & Samples(s) Qualified:**Alkalinity to pH 4.5**

23F1273-02[MW-5-060823], 23F1273-05[OS-9-060823], 23F1273-06[OS-12-060823], 23F1273-08[MW-10-060823]

SW-846 8260D**Qualifications:****MS-07A**

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBCP)**

23F1273-04[MW-5A-060823], B343050-MS1, B343050-MSD1

Bromoform

23F1273-04[MW-5A-060823], B343050-MS1, B343050-MSD1

Methyl Acetate

23F1273-04[MW-5A-060823], B343050-MS1, B343050-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

B343050-MS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBCP)**

23F1273-01[MW-4-060823], 23F1273-02[MW-5-060823], 23F1273-03[MW-3-060823], 23F1273-04[MW-5A-060823], 23F1273-05[OS-9-060823], 23F1273-06[OS-12-060823], 23F1273-07[OS-10-060823], 23F1273-08[MW-10-060823], 23F1273-09[DUP-2-060823], B343050-BLK1, B343050-BS1, B343050-BSD1, B343050-MS1, B343050-MSD1, S089125-CCV1

Methyl Acetate

23F1273-01[MW-4-060823], 23F1273-02[MW-5-060823], 23F1273-03[MW-3-060823], 23F1273-04[MW-5A-060823], 23F1273-05[OS-9-060823], 23F1273-06[OS-12-060823], 23F1273-07[OS-10-060823], 23F1273-08[MW-10-060823], 23F1273-09[DUP-2-060823], B343050-BLK1, B343050-BS1, B343050-BSD1, B343050-MS1, B343050-MSD1, S089125-CCV1

V-20

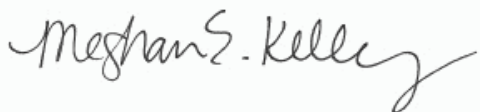
Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Bromomethane**

B343050-BS1, B343050-BSD1, B343050-MS1, B343050-MSD1, S089125-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-4-060823

Sampled: 6/8/2023 09:15

Sample ID: 23F1273-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-4-060823

Sampled: 6/8/2023 09:15

Sample ID: 23F1273-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Trichloroethylene	0.36	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.1	70-130	
Toluene-d8	96.3	70-130	
4-Bromofluorobenzene	90.4	70-130	

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Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-5-060823

Sampled: 6/8/2023 09:23

Sample ID: 23F1273-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Toluene	0.37	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF

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Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-5-060823

Sampled: 6/8/2023 09:23

Sample ID: 23F1273-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.1	70-130	
Toluene-d8	96.0	70-130	
4-Bromofluorobenzene	92.0	70-130	

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Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-5-060823

Sampled: 6/8/2023 09:23

Sample ID: 23F1273-02

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0025	mg/L	1		RSK175	6/20/23	6/20/23 13:12	TPH
Ethene	ND	0.017	0.00031	mg/L	1		RSK175	6/20/23	6/20/23 13:12	TPH
Methane	ND	0.0070	0.0012	mg/L	1		RSK175	6/20/23	6/20/23 13:12	TPH

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Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-5-060823

Sampled: 6/8/2023 09:23

Sample ID: 23F1273-02

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.083	0.050	0.045	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:18	ATP
Antimony	ND	1.0	0.22	µg/L	1		SW-846 6020B	6/12/23	6/14/23 16:47	NC
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	6/12/23	6/14/23 16:47	NC
Barium	83	10	1.1	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:37	MJH
Beryllium	ND	0.40	0.11	µg/L	1		SW-846 6020B	6/12/23	6/14/23 16:47	NC
Cadmium	ND	0.20	0.063	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:37	MJH
Calcium	120	0.50	0.22	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:18	ATP
Chromium	0.96	1.0	0.61	µg/L	1	J	SW-846 6020B	6/12/23	6/14/23 16:47	NC
Cobalt	1.2	1.0	0.12	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:37	MJH
Copper	5.3	1.0	0.25	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:37	MJH
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:18	ATP
Lead	ND	0.50	0.17	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:37	MJH
Magnesium	29	0.050	0.0095	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:18	ATP
Manganese	210	1.0	0.32	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:37	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	6/12/23	6/13/23 12:45	AV
Nickel	7.6	5.0	1.8	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:37	MJH
Potassium	4.1	2.0	0.28	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:18	ATP
Selenium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:37	MJH
Silver	ND	0.20	0.064	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:37	MJH
Sodium	320	2.0	1.2	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:18	ATP
Thallium	ND	0.20	0.090	µg/L	1		SW-846 6020B	6/12/23	6/14/23 16:47	NC
Vanadium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:37	MJH
Zinc	ND	10	9.2	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:37	MJH

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Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-5-060823

Sampled: 6/8/2023 09:23

Sample ID: 23F1273-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	540	25	16	mg/L	25		EPA 300.0	6/22/23	6/22/23 20:34	is
Nitrate as N	1.0	0.10	0.057	mg/L	1	H-01	EPA 300.0	6/10/23	6/10/23 13:32	NRH
Sulfate	67	10	3.2	mg/L	10		EPA 300.0	6/21/23	6/21/23 18:20	IS
Sulfide	ND	2.0	1.6	mg/L	1		SM21-23 4500S-F	6/13/23	6/13/23 12:55	DET
Total Organic Carbon	31	1.0	0.56	mg/L	1		SM 21-23 5310B	6/15/23	6/15/23 13:14	QH
Silica Gel Treated HEM (SGT-HEM)	ND	1.6	0.49	mg/L	1		EPA 1664B	6/22/23	6/22/23 11:32	LL
Alkalinity to pH 4.5	300	1.0	0.70	mg/L	1	PR-18	SM21-23 2320B	6/15/23	6/15/23 11:18	QH

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Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-3-060823

Sampled: 6/8/2023 10:06

Sample ID: 23F1273-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
cis-1,2-Dichloroethylene	1.4	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Toluene	0.48	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-3-060823

Sampled: 6/8/2023 10:06

Sample ID: 23F1273-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	89.8	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-5A-060823

Sampled: 6/8/2023 10:30

Sample ID: 23F1273-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Bromoform	ND	1.0	0.41	µg/L	1	MS-07A	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Chloroform	0.59	2.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	MS-07A, V-05	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
cis-1,2-Dichloroethylene	0.23	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	MS-07A, V-05	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Tetrachloroethylene	17	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Toluene	0.42	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-5A-060823

Sampled: 6/8/2023 10:30

Sample ID: 23F1273-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Trichloroethylene	0.27	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	91.2	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-9-060823

Sampled: 6/8/2023 11:15

Sample ID: 23F1273-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
cis-1,2-Dichloroethylene	0.70	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:19	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Tetrachloroethylene	0.85	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Toluene	0.44	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Sampled: 6/8/2023 11:15

Field Sample #: OS-9-060823

Sample ID: 23F1273-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	91.2	70-130	

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Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-9-060823

Sampled: 6/8/2023 11:15

Sample ID: 23F1273-05

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0025	mg/L	1		RSK175	6/20/23	6/20/23 13:28	TPH
Ethene	ND	0.017	0.00031	mg/L	1		RSK175	6/20/23	6/20/23 13:28	TPH
Methane	ND	0.0070	0.0012	mg/L	1		RSK175	6/20/23	6/20/23 13:28	TPH

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Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-9-060823

Sampled: 6/8/2023 11:15

Sample ID: 23F1273-05

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:24	ATP
Antimony	0.26	1.0	0.22	µg/L	1	J	SW-846 6020B	6/12/23	6/14/23 16:57	NC
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	6/12/23	6/14/23 16:57	NC
Barium	120	10	1.1	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:40	MJH
Beryllium	ND	0.40	0.11	µg/L	1		SW-846 6020B	6/12/23	6/14/23 16:57	NC
Cadmium	0.12	0.20	0.063	µg/L	1	J	SW-846 6020B	6/12/23	6/12/23 22:40	MJH
Calcium	140	0.50	0.22	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:24	ATP
Chromium	0.91	1.0	0.61	µg/L	1	J	SW-846 6020B	6/12/23	6/14/23 16:57	NC
Cobalt	1.3	1.0	0.12	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:40	MJH
Copper	4.3	1.0	0.25	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:40	MJH
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:24	ATP
Lead	ND	0.50	0.17	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:40	MJH
Magnesium	24	0.050	0.0095	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:24	ATP
Manganese	590	5.0	1.6	µg/L	5		SW-846 6020B	6/12/23	6/14/23 17:00	NC
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	6/12/23	6/13/23 12:46	AV
Nickel	8.3	5.0	1.8	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:40	MJH
Potassium	3.3	2.0	0.28	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:24	ATP
Selenium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:40	MJH
Silver	ND	0.20	0.064	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:40	MJH
Sodium	190	2.0	1.2	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:24	ATP
Thallium	ND	0.20	0.090	µg/L	1		SW-846 6020B	6/12/23	6/14/23 16:57	NC
Vanadium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:40	MJH
Zinc	ND	10	9.2	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:40	MJH

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Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-9-060823

Sampled: 6/8/2023 11:15

Sample ID: 23F1273-05

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	340	10	6.5	mg/L	10	MS-07	EPA 300.0	6/21/23	6/21/23 18:42	IS
Nitrate as N	0.22	0.10	0.057	mg/L	1	H-01	EPA 300.0	6/10/23	6/10/23 13:55	NRH
Sulfate	50	1.0	0.32	mg/L	1		EPA 300.0	6/10/23	6/10/23 13:55	NRH
Sulfide	ND	2.0	1.6	mg/L	1		SM21-23 4500S-F	6/13/23	6/13/23 12:55	DET
Total Organic Carbon	5.1	1.0	0.56	mg/L	1		SM 21-23 5310B	6/15/23	6/15/23 13:42	QH
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	0.44	mg/L	1		EPA 1664B	6/22/23	6/22/23 11:32	LL
Alkalinity to pH 4.5	300	1.0	0.70	mg/L	1	PR-18	SM21-23 2320B	6/15/23	6/15/23 11:21	QH

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Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-12-060823

Sampled: 6/8/2023 12:25

Sample ID: 23F1273-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Chloroform	0.53	2.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
cis-1,2-Dichloroethylene	0.19	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Tetrachloroethylene	16	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Toluene	0.36	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-12-060823

Sampled: 6/8/2023 12:25

Sample ID: 23F1273-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Trichloroethylene	0.23	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	99.0	70-130	
4-Bromofluorobenzene	89.6	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-12-060823

Sampled: 6/8/2023 12:25

Sample ID: 23F1273-06

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0025	mg/L	1		RSK175	6/20/23	6/20/23 13:38	TPH
Ethene	ND	0.017	0.00031	mg/L	1		RSK175	6/20/23	6/20/23 13:38	TPH
Methane	ND	0.0070	0.0012	mg/L	1		RSK175	6/20/23	6/20/23 13:38	TPH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-12-060823

Sampled: 6/8/2023 12:25

Sample ID: 23F1273-06

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:41	ATP
Antimony	ND	1.0	0.22	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:03	NC
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:03	NC
Barium	110	10	1.1	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:44	MJH
Beryllium	ND	0.40	0.11	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:03	NC
Cadmium	0.064	0.20	0.063	µg/L	1	J	SW-846 6020B	6/12/23	6/12/23 22:44	MJH
Calcium	140	0.50	0.22	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:41	ATP
Chromium	1.1	1.0	0.61	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:03	NC
Cobalt	0.56	1.0	0.12	µg/L	1	J	SW-846 6020B	6/12/23	6/12/23 22:44	MJH
Copper	6.2	1.0	0.25	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:44	MJH
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:41	ATP
Lead	ND	0.50	0.17	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:44	MJH
Magnesium	29	0.050	0.0095	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:41	ATP
Manganese	44	1.0	0.32	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:44	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	6/12/23	6/13/23 12:48	AV
Nickel	9.1	5.0	1.8	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:44	MJH
Potassium	3.5	2.0	0.28	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:41	ATP
Selenium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:44	MJH
Silver	ND	0.20	0.064	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:44	MJH
Sodium	420	2.0	1.2	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:41	ATP
Thallium	ND	0.20	0.090	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:03	NC
Vanadium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:44	MJH
Zinc	190	10	9.2	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:44	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-12-060823

Sampled: 6/8/2023 12:25

Sample ID: 23F1273-06

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	690	25	16	mg/L	25		EPA 300.0	6/21/23	6/21/23 20:11	IS
Nitrate as N	1.2	0.10	0.057	mg/L	1	H-01	EPA 300.0	6/10/23	6/10/23 14:17	NRH
Sulfate	62	5.0	1.6	mg/L	5		EPA 300.0	6/21/23	6/21/23 19:49	IS
Sulfide	ND	2.0	1.6	mg/L	1		SM21-23 4500S-F	6/13/23	6/13/23 12:55	DET
Total Organic Carbon	1.2	1.0	0.56	mg/L	1		SM 21-23 5310B	6/15/23	6/15/23 13:59	QH
Silica Gel Treated HEM (SGT-HEM)	0.70	1.4	0.42	mg/L	1	J	EPA 1664B	6/22/23	6/22/23 11:32	LL
Alkalinity to pH 4.5	300	1.0	0.70	mg/L	1	PR-18	SM21-23 2320B	6/15/23	6/15/23 11:24	QH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-10-060823

Sampled: 6/8/2023 13:05

Sample ID: 23F1273-07

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	6.2	50	2.0	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
cis-1,2-Dichloroethylene	1.3	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Tetrachloroethylene	14	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Toluene	0.65	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-10-060823

Sampled: 6/8/2023 13:05

Sample ID: 23F1273-07

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Trichloroethylene	1.6	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.7	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	90.3	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-10-060823

Sampled: 6/8/2023 15:03

Sample ID: 23F1273-08

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Tetrachloroethylene	0.66	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Toluene	0.42	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-10-060823

Sampled: 6/8/2023 15:03

Sample ID: 23F1273-08

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.3	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	90.8	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-10-060823

Sampled: 6/8/2023 15:03

Sample ID: 23F1273-08

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0025	mg/L	1		RSK175	6/20/23	6/20/23 14:01	TPH
Ethene	ND	0.017	0.00031	mg/L	1		RSK175	6/20/23	6/20/23 14:01	TPH
Methane	0.24	0.0070	0.0012	mg/L	1		RSK175	6/20/23	6/20/23 14:01	TPH

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Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-10-060823

Sampled: 6/8/2023 15:03

Sample ID: 23F1273-08

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.10	0.050	0.045	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:47	ATP
Antimony	ND	1.0	0.22	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:06	NC
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:06	NC
Barium	83	10	1.1	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:47	MJH
Beryllium	ND	0.40	0.11	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:06	NC
Cadmium	ND	0.20	0.063	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:47	MJH
Calcium	140	0.50	0.22	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:47	ATP
Chromium	1.0	1.0	0.61	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:06	NC
Cobalt	0.59	1.0	0.12	µg/L	1	J	SW-846 6020B	6/12/23	6/12/23 22:47	MJH
Copper	3.3	1.0	0.25	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:47	MJH
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:47	ATP
Lead	0.46	0.50	0.17	µg/L	1	J	SW-846 6020B	6/12/23	6/12/23 22:47	MJH
Magnesium	36	0.050	0.0095	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:47	ATP
Manganese	520	5.0	1.6	µg/L	5		SW-846 6020B	6/12/23	6/14/23 17:10	NC
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	6/12/23	6/13/23 12:50	AV
Nickel	7.0	5.0	1.8	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:47	MJH
Potassium	2.5	2.0	0.28	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:47	ATP
Selenium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:47	MJH
Silver	ND	0.20	0.064	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:47	MJH
Sodium	200	2.0	1.2	mg/L	1		SW-846 6010D	6/12/23	6/12/23 18:47	ATP
Thallium	ND	0.20	0.090	µg/L	1		SW-846 6020B	6/12/23	6/14/23 17:06	NC
Vanadium	ND	5.0	2.0	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:47	MJH
Zinc	ND	10	9.2	µg/L	1		SW-846 6020B	6/12/23	6/12/23 22:47	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-10-060823

Sampled: 6/8/2023 15:03

Sample ID: 23F1273-08

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	410	10	6.5	mg/L	10		EPA 300.0	6/21/23	6/21/23 20:33	IS
Nitrate as N	0.26	0.10	0.057	mg/L	1		EPA 300.0	6/10/23	6/10/23 14:39	NRH
Sulfate	61	10	3.2	mg/L	10		EPA 300.0	6/21/23	6/21/23 20:33	IS
Sulfide	ND	2.0	1.6	mg/L	1		SM21-23 4500S-F	6/13/23	6/13/23 12:55	DET
Total Organic Carbon	17	1.0	0.56	mg/L	1		SM 21-23 5310B	6/15/23	6/15/23 14:27	QH
Silica Gel Treated HEM (SGT-HEM)	0.70	1.4	0.42	mg/L	1	J	EPA 1664B	6/22/23	6/22/23 11:32	LL
Alkalinity to pH 4.5	270	1.0	0.70	mg/L	1	PR-18	SM21-23 2320B	6/15/23	6/15/23 11:26	QH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: DUP-2-060823

Sampled: 6/8/2023 00:00

Sample ID: 23F1273-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Toluene	0.60	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: DUP-2-060823

Sampled: 6/8/2023 00:00

Sample ID: 23F1273-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.2	70-130	
Toluene-d8	99.6	70-130	
4-Bromofluorobenzene	89.2	70-130	

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Sample Extraction Data**EPA 1664B**

Lab Number [Field ID]	Batch	Initial [mL]	Date
23F1273-02 [MW-5-060823]	B344003	860	06/22/23
23F1273-05 [OS-9-060823]	B344003	970	06/22/23
23F1273-06 [OS-12-060823]	B344003	1000	06/22/23
23F1273-08 [MW-10-060823]	B344003	1000	06/22/23

Prep Method:EPA 300.0 Analytical Method:EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-02 [MW-5-060823]	B342888	10.0	10.0	06/10/23
23F1273-05 [OS-9-060823]	B342888	10.0	10.0	06/10/23
23F1273-06 [OS-12-060823]	B342888	10.0	10.0	06/10/23
23F1273-08 [MW-10-060823]	B342888	10.0	10.0	06/10/23

Prep Method:EPA 300.0 Analytical Method:EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-05 [OS-9-060823]	B343125	10.0	10.0	06/10/23

Prep Method:EPA 300.0 Analytical Method:EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-05 [OS-9-060823]	B343917	10.0	10.0	06/21/23

Prep Method:EPA 300.0 Analytical Method:EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-02 [MW-5-060823]	B343918	10.0	10.0	06/21/23
23F1273-06 [OS-12-060823]	B343918	10.0	10.0	06/21/23
23F1273-06 [OS-12-060823]	B343918	10.0	10.0	06/21/23
23F1273-08 [MW-10-060823]	B343918	10.0	10.0	06/21/23

Prep Method:EPA 300.0 Analytical Method:EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-02 [MW-5-060823]	B344094	10.0	10.0	06/22/23

Prep Method:RSK175 Analytical Method:RSK175

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-02 [MW-5-060823]	B344096	1.00	1.00	06/20/23
23F1273-05 [OS-9-060823]	B344096	1.00	1.00	06/20/23
23F1273-06 [OS-12-060823]	B344096	1.00	1.00	06/20/23
23F1273-08 [MW-10-060823]	B344096	1.00	1.00	06/20/23

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Sample Extraction Data**SM 21-23 5310B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-02 [MW-5-060823]	B343354	50.0	50.0	06/15/23
23F1273-05 [OS-9-060823]	B343354	50.0	50.0	06/15/23
23F1273-06 [OS-12-060823]	B343354	50.0	50.0	06/15/23
23F1273-08 [MW-10-060823]	B343354	50.0	50.0	06/15/23

SM21-23 2320B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-02 [MW-5-060823]	B343351	100	100	06/15/23
23F1273-05 [OS-9-060823]	B343351	100	100	06/15/23
23F1273-06 [OS-12-060823]	B343351	100	100	06/15/23
23F1273-08 [MW-10-060823]	B343351	100	100	06/15/23

SM21-23 4500S-F

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-02 [MW-5-060823]	B343099	100	100	06/13/23
23F1273-05 [OS-9-060823]	B343099	100	100	06/13/23
23F1273-06 [OS-12-060823]	B343099	100	100	06/13/23
23F1273-08 [MW-10-060823]	B343099	100	100	06/13/23

Prep Method:SW-846 3005A Analytical Method:SW-846 6010D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-02 [MW-5-060823]	B342970	50.0	50.0	06/12/23
23F1273-05 [OS-9-060823]	B342970	50.0	50.0	06/12/23
23F1273-06 [OS-12-060823]	B342970	50.0	50.0	06/12/23
23F1273-08 [MW-10-060823]	B342970	50.0	50.0	06/12/23

Prep Method:SW-846 3005A Analytical Method:SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-02 [MW-5-060823]	B342964	50.0	50.0	06/12/23
23F1273-05 [OS-9-060823]	B342964	50.0	50.0	06/12/23
23F1273-06 [OS-12-060823]	B342964	50.0	50.0	06/12/23
23F1273-08 [MW-10-060823]	B342964	50.0	50.0	06/12/23

Prep Method:SW-846 7470A Prep Analytical Method:SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-02 [MW-5-060823]	B342973	10.0	10.0	06/12/23
23F1273-05 [OS-9-060823]	B342973	10.0	10.0	06/12/23
23F1273-06 [OS-12-060823]	B342973	10.0	10.0	06/12/23
23F1273-08 [MW-10-060823]	B342973	10.0	10.0	06/12/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method:SW-846 5030B Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1273-01 [MW-4-060823]	B343050	5	5.00	06/13/23
23F1273-02 [MW-5-060823]	B343050	5	5.00	06/13/23
23F1273-03 [MW-3-060823]	B343050	5	5.00	06/13/23
23F1273-04 [MW-5A-060823]	B343050	5	5.00	06/13/23
23F1273-05 [OS-9-060823]	B343050	5	5.00	06/13/23
23F1273-06 [OS-12-060823]	B343050	5	5.00	06/13/23
23F1273-07 [OS-10-060823]	B343050	5	5.00	06/13/23
23F1273-08 [MW-10-060823]	B343050	5	5.00	06/13/23
23F1273-09 [DUP-2-060823]	B343050	5	5.00	06/13/23

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B343050 - SW-846 5030B									
Blank (B343050-BLK1)				Prepared: 06/13/23 Analyzed: 06/14/23					
Acetone	ND	50	µg/L						
Benzene	ND	1.0	µg/L						
Bromochloromethane	ND	1.0	µg/L						
Bromodichloromethane	ND	0.50	µg/L						
Bromoform	ND	1.0	µg/L						
Bromomethane	ND	2.0	µg/L						
2-Butanone (MEK)	ND	20	µg/L						
Carbon Disulfide	ND	5.0	µg/L						
Carbon Tetrachloride	ND	5.0	µg/L						
Chlorobenzene	ND	1.0	µg/L						
Chlorodibromomethane	ND	0.50	µg/L						
Chloroethane	ND	2.0	µg/L						
Chloroform	ND	2.0	µg/L						
Chloromethane	ND	2.0	µg/L						
Cyclohexane	ND	5.0	µg/L						
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L						V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L						
1,2-Dichlorobenzene	ND	1.0	µg/L						
1,3-Dichlorobenzene	ND	1.0	µg/L						
1,4-Dichlorobenzene	ND	1.0	µg/L						
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L						
1,1-Dichloroethane	ND	1.0	µg/L						
1,2-Dichloroethane	ND	1.0	µg/L						
1,1-Dichloroethylene	ND	1.0	µg/L						
cis-1,2-Dichloroethylene	ND	1.0	µg/L						
trans-1,2-Dichloroethylene	ND	1.0	µg/L						
1,2-Dichloropropane	ND	1.0	µg/L						
cis-1,3-Dichloropropene	ND	0.50	µg/L						
trans-1,3-Dichloropropene	ND	0.50	µg/L						
1,4-Dioxane	ND	50	µg/L						
Ethylbenzene	ND	1.0	µg/L						
2-Hexanone (MBK)	ND	10	µg/L						
Isopropylbenzene (Cumene)	ND	1.0	µg/L						
Methyl Acetate	ND	1.0	µg/L						V-05
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L						
Methyl Cyclohexane	ND	1.0	µg/L						
Methylene Chloride	ND	5.0	µg/L						
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L						
Styrene	ND	1.0	µg/L						
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L						
Tetrachloroethylene	ND	1.0	µg/L						
Toluene	ND	1.0	µg/L						
1,2,3-Trichlorobenzene	ND	5.0	µg/L						
1,2,4-Trichlorobenzene	ND	1.0	µg/L						
1,1,1-Trichloroethane	ND	1.0	µg/L						
1,1,2-Trichloroethane	ND	1.0	µg/L						
Trichloroethylene	ND	1.0	µg/L						
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L						
Vinyl Chloride	ND	2.0	µg/L						
m+p Xylene	ND	2.0	µg/L						

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343050 - SW-846 5030B										
Blank (B343050-BLK1)										
Prepared: 06/13/23 Analyzed: 06/14/23										
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.7		µg/L	25.0		98.9	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	22.9		µg/L	25.0		91.7	70-130			
LCS (B343050-BS1)										
Prepared: 06/13/23 Analyzed: 06/14/23										
Acetone	90.6	50	µg/L	100		90.6	70-160			†
Benzene	11.0	1.0	µg/L	10.0		110	70-130			
Bromochloromethane	10.9	1.0	µg/L	10.0		109	70-130			
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130			
Bromoform	8.16	1.0	µg/L	10.0		81.6	70-130			
Bromomethane	12.2	2.0	µg/L	10.0		122	40-160		V-20	†
2-Butanone (MEK)	103	20	µg/L	100		103	40-160			†
Carbon Disulfide	101	5.0	µg/L	100		101	70-130			
Carbon Tetrachloride	9.72	5.0	µg/L	10.0		97.2	70-130			
Chlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
Chlorodibromomethane	9.52	0.50	µg/L	10.0		95.2	70-130			
Chloroethane	9.63	2.0	µg/L	10.0		96.3	70-130			
Chloroform	10.4	2.0	µg/L	10.0		104	70-130			
Chloromethane	9.81	2.0	µg/L	10.0		98.1	40-160			†
Cyclohexane	9.88	5.0	µg/L	10.0		98.8	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.45	5.0	µg/L	10.0		74.5	70-130		V-05	
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130			
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,4-Dichlorobenzene	9.96	1.0	µg/L	10.0		99.6	70-130			
Dichlorodifluoromethane (Freon 12)	11.1	2.0	µg/L	10.0		111	40-160			†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloroethane	9.73	1.0	µg/L	10.0		97.3	70-130			
1,1-Dichloroethylene	9.40	1.0	µg/L	10.0		94.0	70-130			
cis-1,2-Dichloroethylene	9.86	1.0	µg/L	10.0		98.6	70-130			
trans-1,2-Dichloroethylene	9.56	1.0	µg/L	10.0		95.6	70-130			
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	9.57	0.50	µg/L	10.0		95.7	70-130			
trans-1,3-Dichloropropene	9.23	0.50	µg/L	10.0		92.3	70-130			
1,4-Dioxane	85.8	50	µg/L	100		85.8	40-130			†
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
2-Hexanone (MBK)	93.4	10	µg/L	100		93.4	70-160			†
Isopropylbenzene (Cumene)	9.76	1.0	µg/L	10.0		97.6	70-130			
Methyl Acetate	7.32	1.0	µg/L	10.0		73.2	70-130		V-05	
Methyl tert-Butyl Ether (MTBE)	8.97	1.0	µg/L	10.0		89.7	70-130			
Methyl Cyclohexane	10.5	1.0	µg/L	10.0		105	70-130			
Methylene Chloride	9.80	5.0	µg/L	10.0		98.0	70-130			
4-Methyl-2-pentanone (MIBK)	91.0	10	µg/L	100		91.0	70-160			†
Styrene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,2,2-Tetrachloroethane	9.83	0.50	µg/L	10.0		98.3	70-130			
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
Toluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	9.64	5.0	µg/L	10.0		96.4	70-130			
1,2,4-Trichlorobenzene	9.57	1.0	µg/L	10.0		95.7	70-130			
1,1,1-Trichloroethane	9.80	1.0	µg/L	10.0		98.0	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343050 - SW-846 5030B										
LCS (B343050-BS1)										
Prepared: 06/13/23 Analyzed: 06/14/23										
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	9.67	2.0	µg/L	10.0		96.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.77	1.0	µg/L	10.0		97.7	70-130			
Vinyl Chloride	11.4	2.0	µg/L	10.0		114	40-160			†
m+p Xylene	21.0	2.0	µg/L	20.0		105	70-130			
o-Xylene	9.81	1.0	µg/L	10.0		98.1	70-130			
Xylenes (total)	30.8	1.0	µg/L	30.0		103	0-200			
Surrogate: 1,2-Dichloroethane-d4	23.3		µg/L	25.0		93.2	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.3	70-130			
LCS Dup (B343050-BSD1)										
Prepared: 06/13/23 Analyzed: 06/14/23										
Acetone	98.8	50	µg/L	100		98.8	70-160	8.66	25	†
Benzene	11.2	1.0	µg/L	10.0		112	70-130	2.16	25	
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130	4.22	25	
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130	0.0988	25	
Bromoform	8.41	1.0	µg/L	10.0		84.1	70-130	3.02	25	
Bromomethane	12.6	2.0	µg/L	10.0		126	40-160	3.23	25	V-20 †
2-Butanone (MEK)	109	20	µg/L	100		109	40-160	4.84	25	†
Carbon Disulfide	107	5.0	µg/L	100		107	70-130	5.62	25	
Carbon Tetrachloride	10.0	5.0	µg/L	10.0		100	70-130	3.14	25	
Chlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	1.95	25	
Chlorodibromomethane	9.65	0.50	µg/L	10.0		96.5	70-130	1.36	25	
Chloroethane	10.1	2.0	µg/L	10.0		101	70-130	4.86	25	
Chloroform	10.5	2.0	µg/L	10.0		105	70-130	1.34	25	
Chloromethane	10.1	2.0	µg/L	10.0		101	40-160	3.31	25	†
Cyclohexane	10.2	5.0	µg/L	10.0		102	70-130	3.48	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.39	5.0	µg/L	10.0		83.9	70-130	11.9	25	V-05
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130	0.861	25	
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	1.07	25	
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.29	25	
1,4-Dichlorobenzene	9.97	1.0	µg/L	10.0		99.7	70-130	0.100	25	
Dichlorodifluoromethane (Freon 12)	11.7	2.0	µg/L	10.0		117	40-160	5.36	25	†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130	1.17	25	
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130	2.84	25	
1,1-Dichloroethylene	9.71	1.0	µg/L	10.0		97.1	70-130	3.24	25	
cis-1,2-Dichloroethylene	9.99	1.0	µg/L	10.0		99.9	70-130	1.31	25	
trans-1,2-Dichloroethylene	9.53	1.0	µg/L	10.0		95.3	70-130	0.314	25	
1,2-Dichloropropane	11.1	1.0	µg/L	10.0		111	70-130	4.52	25	
cis-1,3-Dichloropropene	9.74	0.50	µg/L	10.0		97.4	70-130	1.76	25	
trans-1,3-Dichloropropene	9.17	0.50	µg/L	10.0		91.7	70-130	0.652	25	
1,4-Dioxane	88.3	50	µg/L	100		88.3	40-130	2.87	50	† ‡
Ethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	3.69	25	
2-Hexanone (MBK)	96.9	10	µg/L	100		96.9	70-160	3.75	25	†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.0		101	70-130	3.52	25	
Methyl Acetate	7.77	1.0	µg/L	10.0		77.7	70-130	5.96	25	V-05
Methyl tert-Butyl Ether (MTBE)	9.01	1.0	µg/L	10.0		90.1	70-130	0.445	25	
Methyl Cyclohexane	11.0	1.0	µg/L	10.0		110	70-130	4.57	25	
Methylene Chloride	9.89	5.0	µg/L	10.0		98.9	70-130	0.914	25	
4-Methyl-2-pentanone (MIBK)	94.1	10	µg/L	100		94.1	70-160	3.34	25	†
Styrene	10.8	1.0	µg/L	10.0		108	70-130	5.60	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343050 - SW-846 5030B										
LCS Dup (B343050-BSD1)										
Prepared: 06/13/23 Analyzed: 06/14/23										
1,1,2,2-Tetrachloroethane	9.63	0.50	µg/L	10.0		96.3	70-130	2.06	25	
Tetrachloroethylene	11.1	1.0	µg/L	10.0		111	70-130	1.91	25	
Toluene	10.9	1.0	µg/L	10.0		109	70-130	2.41	25	
1,2,3-Trichlorobenzene	9.84	5.0	µg/L	10.0		98.4	70-130	2.05	25	
1,2,4-Trichlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130	3.09	25	
1,1,1-Trichloroethane	9.93	1.0	µg/L	10.0		99.3	70-130	1.32	25	
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130	1.76	25	
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	5.83	25	
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101	70-130	3.95	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	1.0	µg/L	10.0		105	70-130	7.11	25	
Vinyl Chloride	11.8	2.0	µg/L	10.0		118	40-160	3.02	25	†
m+p Xylene	21.4	2.0	µg/L	20.0		107	70-130	2.22	25	
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130	4.68	25	
Xylenes (total)	31.7	1.0	µg/L	30.0		106	0-200	3.01		
Surrogate: 1,2-Dichloroethane-d4	23.4		µg/L	25.0		93.7	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.4	70-130			
Matrix Spike (B343050-MS1)										
Source: 23F1273-04 Prepared: 06/13/23 Analyzed: 06/15/23										
Acetone	75.3	50	µg/L	100	ND	75.3	70-130			
Benzene	10.0	1.0	µg/L	10.0	ND	100	70-130			
Bromochloromethane	10.1	1.0	µg/L	10.0	ND	101	70-130			
Bromodichloromethane	8.45	0.50	µg/L	10.0	ND	84.5	70-130			
Bromoform	6.59	1.0	µg/L	10.0	ND	65.9	* 70-130			MS-07A
Bromomethane	11.0	2.0	µg/L	10.0	ND	110	70-130			V-20
2-Butanone (MEK)	84.8	20	µg/L	100	ND	84.8	70-130			
Carbon Disulfide	90.1	5.0	µg/L	100	ND	90.1	70-130			
Carbon Tetrachloride	8.80	5.0	µg/L	10.0	ND	88.0	70-130			
Chlorobenzene	9.46	1.0	µg/L	10.0	ND	94.6	70-130			
Chlorodibromomethane	7.78	0.50	µg/L	10.0	ND	77.8	70-130			
Chloroethane	9.34	2.0	µg/L	10.0	ND	93.4	70-130			
Chloroform	9.54	2.0	µg/L	10.0	0.590	89.5	70-130			
Chloromethane	8.82	2.0	µg/L	10.0	ND	88.2	70-130			
Cyclohexane	9.52	5.0	µg/L	10.0	ND	95.2	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	6.69	5.0	µg/L	10.0	ND	66.9	* 70-130			MS-07A, V-05
1,2-Dibromoethane (EDB)	8.65	0.50	µg/L	10.0	ND	86.5	70-130			
1,2-Dichlorobenzene	8.70	1.0	µg/L	10.0	ND	87.0	70-130			
1,3-Dichlorobenzene	8.66	1.0	µg/L	10.0	ND	86.6	70-130			
1,4-Dichlorobenzene	8.62	1.0	µg/L	10.0	ND	86.2	70-130			
Dichlorodifluoromethane (Freon 12)	10.4	2.0	µg/L	10.0	ND	104	70-130			
1,1-Dichloroethane	9.15	1.0	µg/L	10.0	ND	91.5	70-130			
1,2-Dichloroethane	8.40	1.0	µg/L	10.0	ND	84.0	70-130			
1,1-Dichloroethylene	8.67	1.0	µg/L	10.0	ND	86.7	70-130			
cis-1,2-Dichloroethylene	8.41	1.0	µg/L	10.0	0.230	81.8	70-130			
trans-1,2-Dichloroethylene	8.43	1.0	µg/L	10.0	ND	84.3	70-130			
1,2-Dichloropropane	9.19	1.0	µg/L	10.0	ND	91.9	70-130			
cis-1,3-Dichloropropene	7.44	0.50	µg/L	10.0	ND	74.4	70-130			
trans-1,3-Dichloropropene	7.02	0.50	µg/L	10.0	ND	70.2	70-130			
1,4-Dioxane	69.3	50	µg/L	100	ND	69.3	* 70-130			MS-24
Ethylbenzene	9.27	1.0	µg/L	10.0	ND	92.7	70-130			
2-Hexanone (MBK)	70.6	10	µg/L	100	ND	70.6	70-130			
Isopropylbenzene (Cumene)	8.60	1.0	µg/L	10.0	ND	86.0	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343050 - SW-846 5030B										
Matrix Spike (B343050-MS1)	Source: 23F1273-04			Prepared: 06/13/23 Analyzed: 06/15/23						
Methyl Acetate	4.23	1.0	µg/L	10.0	ND	42.3	*	70-130		MS-07A, V-05
Methyl tert-Butyl Ether (MTBE)	7.44	1.0	µg/L	10.0	ND	74.4		70-130		
Methyl Cyclohexane	9.01	1.0	µg/L	10.0	ND	90.1		70-130		
Methylene Chloride	8.82	5.0	µg/L	10.0	ND	88.2		70-130		
4-Methyl-2-pentanone (MIBK)	72.7	10	µg/L	100	ND	72.7		70-130		
Styrene	8.74	1.0	µg/L	10.0	ND	87.4		70-130		
1,1,2,2-Tetrachloroethane	8.29	0.50	µg/L	10.0	ND	82.9		70-130		
Tetrachloroethylene	24.2	1.0	µg/L	10.0	16.8	73.0		70-130		
Toluene	9.80	1.0	µg/L	10.0	0.420	93.8		70-130		
1,2,3-Trichlorobenzene	7.27	5.0	µg/L	10.0	ND	72.7		70-130		
1,2,4-Trichlorobenzene	7.11	1.0	µg/L	10.0	ND	71.1		70-130		
1,1,1-Trichloroethane	8.84	1.0	µg/L	10.0	ND	88.4		70-130		
1,1,2-Trichloroethane	8.97	1.0	µg/L	10.0	ND	89.7		70-130		
Trichloroethylene	9.22	1.0	µg/L	10.0	0.270	89.5		70-130		
Trichlorofluoromethane (Freon 11)	9.00	2.0	µg/L	10.0	ND	90.0		70-130		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.86	1.0	µg/L	10.0	ND	88.6		70-130		
Vinyl Chloride	10.6	2.0	µg/L	10.0	ND	106		70-130		
m+p Xylene	18.6	2.0	µg/L	20.0	ND	93.0		70-130		
o-Xylene	8.69	1.0	µg/L	10.0	ND	86.9		70-130		
Xylenes (total)	27.3	1.0	µg/L	30.0	ND	90.9		0-200		
Surrogate: 1,2-Dichloroethane-d4	24.1		µg/L	25.0		96.6		70-130		
Surrogate: Toluene-d8	25.0		µg/L	25.0		100		70-130		
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.0		96.3		70-130		
Matrix Spike Dup (B343050-MSD1)	Source: 23F1273-04			Prepared: 06/13/23 Analyzed: 06/15/23						
Acetone	78.8	50	µg/L	100	ND	78.8		70-130	4.56	30
Benzene	9.60	1.0	µg/L	10.0	ND	96.0		70-130	4.18	30
Bromochloromethane	9.31	1.0	µg/L	10.0	ND	93.1		70-130	8.04	30
Bromodichloromethane	8.53	0.50	µg/L	10.0	ND	85.3		70-130	0.942	30
Bromoform	6.50	1.0	µg/L	10.0	ND	65.0	*	70-130	1.38	30
Bromomethane	10.6	2.0	µg/L	10.0	ND	106		70-130	3.15	30
2-Butanone (MEK)	89.2	20	µg/L	100	ND	89.2		70-130	5.08	30
Carbon Disulfide	90.5	5.0	µg/L	100	ND	90.5		70-130	0.388	30
Carbon Tetrachloride	8.83	5.0	µg/L	10.0	ND	88.3		70-130	0.340	30
Chlorobenzene	8.99	1.0	µg/L	10.0	ND	89.9		70-130	5.09	30
Chlorodibromomethane	7.88	0.50	µg/L	10.0	ND	78.8		70-130	1.28	30
Chloroethane	8.88	2.0	µg/L	10.0	ND	88.8		70-130	5.05	30
Chloroform	9.46	2.0	µg/L	10.0	0.590	88.7		70-130	0.842	30
Chloromethane	8.70	2.0	µg/L	10.0	ND	87.0		70-130	1.37	30
Cyclohexane	9.03	5.0	µg/L	10.0	ND	90.3		70-130	5.28	30
1,2-Dibromo-3-chloropropane (DBCP)	6.60	5.0	µg/L	10.0	ND	66.0	*	70-130	1.35	30
1,2-Dibromoethane (EDB)	8.85	0.50	µg/L	10.0	ND	88.5		70-130	2.29	30
1,2-Dichlorobenzene	8.49	1.0	µg/L	10.0	ND	84.9		70-130	2.44	30
1,3-Dichlorobenzene	8.54	1.0	µg/L	10.0	ND	85.4		70-130	1.40	30
1,4-Dichlorobenzene	8.47	1.0	µg/L	10.0	ND	84.7		70-130	1.76	30
Dichlorodifluoromethane (Freon 12)	10.2	2.0	µg/L	10.0	ND	102		70-130	2.24	30
1,1-Dichloroethane	8.82	1.0	µg/L	10.0	ND	88.2		70-130	3.67	30
1,2-Dichloroethane	8.31	1.0	µg/L	10.0	ND	83.1		70-130	1.08	30
1,1-Dichloroethylene	8.53	1.0	µg/L	10.0	ND	85.3		70-130	1.63	30
cis-1,2-Dichloroethylene	8.56	1.0	µg/L	10.0	0.230	83.3		70-130	1.77	30
trans-1,2-Dichloroethylene	8.26	1.0	µg/L	10.0	ND	82.6		70-130	2.04	30
1,2-Dichloropropane	8.99	1.0	µg/L	10.0	ND	89.9		70-130	2.20	30

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343050 - SW-846 5030B										
Matrix Spike Dup (B343050-MSD1)	Source: 23F1273-04			Prepared: 06/13/23 Analyzed: 06/15/23						
cis-1,3-Dichloropropene	7.37	0.50	µg/L	10.0	ND	73.7	70-130	0.945	30	
trans-1,3-Dichloropropene	7.06	0.50	µg/L	10.0	ND	70.6	70-130	0.568	30	
1,4-Dioxane	70.6	50	µg/L	100	ND	70.6	70-130	1.86	30	
Ethylbenzene	8.67	1.0	µg/L	10.0	ND	86.7	70-130	6.69	30	
2-Hexanone (MBK)	75.9	10	µg/L	100	ND	75.9	70-130	7.20	30	
Isopropylbenzene (Cumene)	8.13	1.0	µg/L	10.0	ND	81.3	70-130	5.62	30	
Methyl Acetate	4.95	1.0	µg/L	10.0	ND	49.5	* 70-130	15.7	30	MS-07A, V-05
Methyl tert-Butyl Ether (MTBE)	7.51	1.0	µg/L	10.0	ND	75.1	70-130	0.936	30	
Methyl Cyclohexane	8.61	1.0	µg/L	10.0	ND	86.1	70-130	4.54	30	
Methylene Chloride	8.64	5.0	µg/L	10.0	ND	86.4	70-130	2.06	30	
4-Methyl-2-pentanone (MIBK)	77.0	10	µg/L	100	ND	77.0	70-130	5.66	30	
Styrene	8.39	1.0	µg/L	10.0	ND	83.9	70-130	4.09	30	
1,1,2,2-Tetrachloroethane	8.17	0.50	µg/L	10.0	ND	81.7	70-130	1.46	30	
Tetrachloroethylene	25.6	1.0	µg/L	10.0	16.8	87.9	70-130	5.99	30	
Toluene	9.77	1.0	µg/L	10.0	0.420	93.5	70-130	0.307	30	
1,2,3-Trichlorobenzene	7.61	5.0	µg/L	10.0	ND	76.1	70-130	4.57	30	
1,2,4-Trichlorobenzene	7.26	1.0	µg/L	10.0	ND	72.6	70-130	2.09	30	
1,1,1-Trichloroethane	8.72	1.0	µg/L	10.0	ND	87.2	70-130	1.37	30	
1,1,2-Trichloroethane	9.07	1.0	µg/L	10.0	ND	90.7	70-130	1.11	30	
Trichloroethylene	9.15	1.0	µg/L	10.0	0.270	88.8	70-130	0.762	30	
Trichlorofluoromethane (Freon 11)	9.00	2.0	µg/L	10.0	ND	90.0	70-130	0.00	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.80	1.0	µg/L	10.0	ND	88.0	70-130	0.679	30	
Vinyl Chloride	10.4	2.0	µg/L	10.0	ND	104	70-130	2.09	30	
m+p Xylene	17.7	2.0	µg/L	20.0	ND	88.5	70-130	4.90	20	
o-Xylene	8.20	1.0	µg/L	10.0	ND	82.0	70-130	5.80	30	
Xylenes (total)	25.9	1.0	µg/L	30.0	ND	86.3	0-200	5.19		
Surrogate: 1,2-Dichloroethane-d4	24.8		µg/L	25.0		99.2	70-130			
Surrogate: Toluene-d8	25.9		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	24.2		µg/L	25.0		96.9	70-130			

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QUALITY CONTROL
Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B344096 - RSK175
Blank (B344096-BLK1)

Prepared & Analyzed: 06/20/23

Ethane	ND	0.014	mg/L							
Ethene	ND	0.017	mg/L							
Methane	ND	0.0070	mg/L							

LCS (B344096-BS1)

Prepared & Analyzed: 06/20/23

Ethane	0.26		mg/L	0.330		80.0	70.1-110			
Ethene	0.26		mg/L	0.308		83.3	67.5-110			
Methane	0.14		mg/L	0.175		78.9	70.9-110			

Duplicate (B344096-DUP1)
Source: 23F1273-08

Prepared & Analyzed: 06/20/23

Ethane	ND	0.014	mg/L		ND			NC	20	
Ethene	ND	0.017	mg/L		ND			NC	20	
Methane	0.219	0.0070	mg/L		0.235			7.12	20	

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342964 - SW-846 3005A
Blank (B342964-BLK1)

Prepared & Analyzed: 06/12/23

Barium	ND	10	µg/L							
Cadmium	ND	0.20	µg/L							
Cobalt	ND	1.0	µg/L							
Copper	0.31	1.0	µg/L							J
Lead	ND	0.50	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Vanadium	ND	5.0	µg/L							

Blank (B342964-BLK2)

Prepared: 06/12/23 Analyzed: 06/14/23

Antimony	ND	1.0	µg/L							
Arsenic	ND	0.80	µg/L							
Beryllium	ND	0.40	µg/L							
Chromium	ND	1.0	µg/L							
Manganese	ND	1.0	µg/L							
Silver	ND	0.20	µg/L							
Thallium	ND	0.20	µg/L							
Zinc	ND	10	µg/L							

LCS (B342964-BS2)

Prepared: 06/12/23 Analyzed: 06/14/23

Antimony	575	10	µg/L	500		115	80-120			
Arsenic	539	8.0	µg/L	500		108	80-120			
Barium	517	100	µg/L	500		103	80-120			
Beryllium	516	4.0	µg/L	500		103	80-120			
Cadmium	531	2.0	µg/L	500		106	80-120			
Chromium	512	10	µg/L	500		102	80-120			
Cobalt	510	10	µg/L	500		102	80-120			
Copper	1020	10	µg/L	1000		102	80-120			
Lead	522	5.0	µg/L	500		104	80-120			
Manganese	521	10	µg/L	500		104	80-120			
Nickel	524	50	µg/L	500		105	80-120			
Selenium	523	50	µg/L	500		105	80-120			
Silver	479	2.0	µg/L	500		95.8	80-120			
Thallium	526	2.0	µg/L	500		105	80-120			
Vanadium	515	50	µg/L	500		103	80-120			
Zinc	1090	100	µg/L	1000		109	80-120			

LCS Dup (B342964-BSD2)

Prepared: 06/12/23 Analyzed: 06/14/23

Antimony	562	10	µg/L	500		112	80-120	2.20	20	
Arsenic	522	8.0	µg/L	500		104	80-120	3.27	20	
Barium	506	100	µg/L	500		101	80-120	2.16	20	
Beryllium	502	4.0	µg/L	500		100	80-120	2.77	20	
Cadmium	521	2.0	µg/L	500		104	80-120	1.83	20	
Chromium	497	10	µg/L	500		99.3	80-120	2.97	20	
Cobalt	505	10	µg/L	500		101	80-120	1.06	20	
Copper	1010	10	µg/L	1000		101	80-120	1.11	20	
Lead	510	5.0	µg/L	500		102	80-120	2.35	20	
Manganese	508	10	µg/L	500		102	80-120	2.50	20	
Nickel	516	50	µg/L	500		103	80-120	1.65	20	
Selenium	509	50	µg/L	500		102	80-120	2.65	20	
Silver	477	2.0	µg/L	500		95.4	80-120	0.412	20	
Thallium	511	2.0	µg/L	500		102	80-120	2.90	20	
Vanadium	502	50	µg/L	500		100	80-120	2.43	20	

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342964 - SW-846 3005A
LCS Dup (B342964-BSD2)

Prepared: 06/12/23 Analyzed: 06/14/23

Zinc	1070	100	µg/L	1000		107	80-120	1.80	20	
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Batch B342970 - SW-846 3005A
Blank (B342970-BLK1)

Prepared & Analyzed: 06/12/23

Aluminum	ND	0.050	mg/L							
Calcium	ND	0.50	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Potassium	ND	2.0	mg/L							
Sodium	ND	2.0	mg/L							

LCS (B342970-BS1)

Prepared & Analyzed: 06/12/23

Aluminum	0.508	0.050	mg/L	0.500		102	45.3-154.7			
Calcium	4.06	0.50	mg/L	4.00		101	80-120			
Iron	4.16	0.050	mg/L	4.00		104	80-120			
Magnesium	4.03	0.050	mg/L	4.00		101	80-120			
Potassium	4.09	2.0	mg/L	4.00		102	80-120			
Sodium	4.12	2.0	mg/L	4.00		103	80-120			

LCS Dup (B342970-BSD1)

Prepared & Analyzed: 06/12/23

Aluminum	0.525	0.050	mg/L	0.500		105	45.3-154.7	3.30	30	
Calcium	4.11	0.50	mg/L	4.00		103	80-120	1.28	20	
Iron	4.24	0.050	mg/L	4.00		106	80-120	2.04	20	
Magnesium	4.05	0.050	mg/L	4.00		101	80-120	0.569	20	
Potassium	4.13	2.0	mg/L	4.00		103	80-120	0.953	20	
Sodium	4.19	2.0	mg/L	4.00		105	80-120	1.73	20	

Batch B342973 - SW-846 7470A Prep
Blank (B342973-BLK1)

Prepared: 06/12/23 Analyzed: 06/13/23

Mercury	ND	0.00020	mg/L							
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LCS (B342973-BS1)

Prepared: 06/12/23 Analyzed: 06/13/23

Mercury	0.00427	0.00020	mg/L	0.00402		106	80-120			
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LCS Dup (B342973-BSD1)

Prepared: 06/12/23 Analyzed: 06/13/23

Mercury	0.00430	0.00020	mg/L	0.00402		107	80-120	0.696	20	
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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342888 - EPA 300.0										
Blank (B342888-BLK1)				Prepared & Analyzed: 06/10/23						
Nitrate as N	ND	0.10	mg/L							
LCS (B342888-BS1)				Prepared & Analyzed: 06/10/23						
Nitrate as N	0.94	0.10	mg/L	1.00		94.4	90-110			
LCS Dup (B342888-BSD1)				Prepared & Analyzed: 06/10/23						
Nitrate as N	0.94	0.10	mg/L	1.00		94.5	90-110	0.116	20	
Batch B343099 - SM21-23 4500S-F										
Blank (B343099-BLK1)				Prepared & Analyzed: 06/13/23						
Sulfide	1.6	2.0	mg/L							J
LCS (B343099-BS1)				Prepared & Analyzed: 06/13/23						
Sulfide	10	2.0	mg/L	10.0		104	78.2-125			
Batch B343125 - EPA 300.0										
Blank (B343125-BLK1)				Prepared & Analyzed: 06/10/23						
Sulfate	ND	1.0	mg/L							
LCS (B343125-BS1)				Prepared & Analyzed: 06/10/23						
Sulfate	9.8	1.0	mg/L	10.0		98.0	90-110			
LCS Dup (B343125-BSD1)				Prepared & Analyzed: 06/10/23						
Sulfate	9.8	1.0	mg/L	10.0		98.2	90-110	0.167	20	
Batch B343351 - SM21-23 2320B										
Blank (B343351-BLK1)				Prepared & Analyzed: 06/15/23						
Alkalinity	ND	1.0	mg/L							
Alkalinity to pH 4.2	ND	1.0	mg/L							
Alkalinity to pH 4.5	ND	1.0	mg/L							
LCS (B343351-BS1)				Prepared & Analyzed: 06/15/23						
Alkalinity	ND	1.0	mg/L	61.2		*	88.3-110			
Alkalinity to pH 4.2	ND	1.0	mg/L	61.2		*	88.3-110			
Alkalinity to pH 4.5	60	1.0	mg/L	61.2		98.0	88.3-110			
LCS Dup (B343351-BSD1)				Prepared & Analyzed: 06/15/23						
Alkalinity	ND	1.0	mg/L	61.2		*	88.3-110	NC	5	
Alkalinity to pH 4.2	ND	1.0	mg/L	61.2		*	88.3-110	NC	5	
Alkalinity to pH 4.5	58	1.0	mg/L	61.2		94.8	88.3-110	3.39	5	

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343354 - SM 21-23 5310B										
Blank (B343354-BLK1)				Prepared & Analyzed: 06/15/23						
Total Organic Carbon	ND	1.0	mg/L							
LCS (B343354-BS1)				Prepared & Analyzed: 06/15/23						
Total Organic Carbon	10.3	1.0	mg/L	10.0		103	90-110			
LCS Dup (B343354-BSD1)				Prepared & Analyzed: 06/15/23						
Total Organic Carbon	10.5	1.0	mg/L	10.0		105	90-110	2.56	15	
Batch B343917 - EPA 300.0										
Blank (B343917-BLK1)				Prepared & Analyzed: 06/21/23						
Chloride	ND	1.0	mg/L							
LCS (B343917-BS1)				Prepared & Analyzed: 06/21/23						
Chloride	9.6	1.0	mg/L	10.0		95.8	90-110			
LCS Dup (B343917-BSD1)				Prepared & Analyzed: 06/21/23						
Chloride	9.6	1.0	mg/L	10.0		95.7	90-110	0.129	20	
Duplicate (B343917-DUP1)				Source: 23F1273-05			Prepared & Analyzed: 06/21/23			
Chloride	340	10	mg/L		340			0.135	20	
Matrix Spike (B343917-MS1)				Source: 23F1273-05			Prepared & Analyzed: 06/21/23			
Chloride	390	10	mg/L	100	340	54.9	* 80-120			MS-07
Batch B343918 - EPA 300.0										
Blank (B343918-BLK1)				Prepared & Analyzed: 06/21/23						
Chloride	ND	1.0	mg/L							
Sulfate	ND	1.0	mg/L							
LCS (B343918-BS1)				Prepared & Analyzed: 06/21/23						
Chloride	9.6	1.0	mg/L	10.0		95.8	90-110			
Sulfate	9.3	1.0	mg/L	10.0		93.3	90-110			
LCS Dup (B343918-BSD1)				Prepared & Analyzed: 06/21/23						
Chloride	9.6	1.0	mg/L	10.0		95.7	90-110	0.129	20	
Sulfate	9.4	1.0	mg/L	10.0		93.8	90-110	0.589	20	
Batch B344003 - EPA 1664B										
Blank (B344003-BLK1)				Prepared & Analyzed: 06/22/23						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B344003 - EPA 1664B
LCS (B344003-BS1)

Prepared & Analyzed: 06/22/23

Silica Gel Treated HEM (SGT-HEM)	12	1.4	mg/L	10.0		120	64-132			
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Duplicate (B344003-DUP1)
Source: 23F1273-08

Prepared & Analyzed: 06/22/23

Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L		0.70			NC	18	
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Matrix Spike (B344003-MS1)
Source: 23F1273-02

Prepared & Analyzed: 06/22/23

Silica Gel Treated HEM (SGT-HEM)	96	14	mg/L	100	ND	96.0	64-132			
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Batch B344094 - EPA 300.0
Blank (B344094-BLK1)

Prepared & Analyzed: 06/22/23

Chloride	ND	1.0	mg/L							
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LCS (B344094-BS1)

Prepared & Analyzed: 06/22/23

Chloride	9.6	1.0	mg/L	10.0		96.4	90-110			
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LCS Dup (B344094-BSD1)

Prepared & Analyzed: 06/22/23

Chloride	9.6	1.0	mg/L	10.0		96.0	90-110	0.381	20	
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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PR-18	Headspace present in sample container.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 300.0 in Water</i>	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
Nitrate as N	NC,NY,MA,VA,ME,NH,CT,RI
Sulfate	NC,NY,MA,VA,ME,NH,CT,RI
<i>RSK175 in Water</i>	
Ethane	VA,NY,ME
Ethene	VA,NY,ME
Methane	VA,NY,ME
<i>SM 21-23 5310B in Water</i>	
Total Organic Carbon	CT,NH,NY,RI,NC,MA,VA
<i>SM21-23 2320B in Water</i>	
Alkalinity to pH 4.5	CT
<i>SM21-23 4500S-F in Water</i>	
Sulfide	CT,NH,RI,NC,ME,NY
<i>SW-846 6010D in Water</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
<i>SW-846 6020B in Water</i>	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8260D in Water</i>	
Acetone	CT,ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

Section A

Required Client Information:

Company: AECOM-NYSDEC Report To: Walt Howard Attention: Walt Howard Invoice Information: Walt Howard Page: 1 Of 1

Address: 40 British American Blvd Copy To: Company Name: AECOM

Latham, NY 12110 Purchase Order #: Address: 40 British American Blvd Latham NY

Email: walt.howard@aecom.com Project Name: NYSDEC Former Cleanerna 60702147 Pace Project Manager: Kyle Stecker

Phone: 518651200 Fax: Project #: Requested Due Date: Struck TAR

Section B

Required Project Information:

Report To: Walt Howard

Copy To: Company Name: AECOM

Purchase Order #: Address: 40 British American Blvd Latham NY

Project Name: NYSDEC Former Cleanerna 60702147 Pace Project Manager: Kyle Stecker

Project #: Requested Due Date: Struck TAR

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
			START DATE	END DATE			TIME	DATE	TIME	DATE	TIME	Received on (Y/N)
1	Water	WT	6/9/23	0915	2	WFO						
2	Drinking Water	DW	6/9/23	0915	2	WFO						
3	Waste Water	WW	6/9/23	0923	11	X						
4	Product	P	6/9/23	1006	2	X						
5	Solid	SL	6/9/23	1030	6	X						
6	Oil	OL	6/9/23	1115	11	X						
7	Wipe	WP	6/9/23	1225	11	X						
8	Air	AR	6/9/23	1305	2	X						
9	Other	OT	6/9/23	1503	11	X						
10	Tissue	TS	6/9/23	---	2	X						
11												
12												
ADDITIONAL COMMENTS: Provide NYS ASP Cat B Data package and AECOM Equis EDD												
SAMPLER NAME AND SIGNATURE: Steve Gray Chris French DATE Signed: 6-8-23												

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

ENV-FRM-ELON-0001 V05__ Sample Receiving Checklist

Log In Back-Sheet

Login Sample Receipt Checklist - (Rejection Criteria Listing
- Using Acceptance Policy) Any False statement will be
brought to the attention of the Client - True or False

Client NYDEC AECOMProject 60702147MCP/RCP Required NoDeliverable Package Requirement CATBLocation NYPWSID# (When Applicable) NA

Arrival Method:

 Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐
Received By / Date / Time DWW 6/9/23 1630Back-Sheet By / Date / Time SL 6/9/23 2327Temperature Method gun # 5Temp ☐ < 6° C Actual Temperature 22, 4.5, 31Rush Samples: Yes / ☒ No NotifyShort Hold: ☒ Yes / ☒ No Notify Nicole

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☒	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☒	☐
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐

COC Included: (Check all included)

Client ☒	Analysis ☒	Sampler Name ☒
Project ☒	IDs ☒	Collection Date/Time ☒

All Samples Proper pH: N/A ☒ ☐

Additional Container Notes

Sample	Soils Jars (Circle Amb/Clear)				Ambers				Plastics						VOA Vials						Other / Fill in																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	1 Liter		250mL		100mL	1 Liter		500mL		250mL		Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact	500mL Plastic NaOH/2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

July 11, 2023

Walter Howard
AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110

Project Location:
Client Job Number:
Project Number: 60702147
Laboratory Work Order Number: 23F1300

Enclosed are results of analyses for samples as received by the laboratory on June 9, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110
ATTN: Walter Howard

REPORT DATE: 7/11/2023

PURCHASE ORDER NUMBER: 401056

PROJECT NUMBER: 60702147

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23F1300

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION:

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OS-3-060623	23F1300-01	Water		Draft Method 1633	
OS-4-060623	23F1300-02	Water		Draft Method 1633	
DUP-1-060623	23F1300-03	Water		Draft Method 1633	
MW-8-060723	23F1300-04	Water		Draft Method 1633	
OS-1-060723	23F1300-05	Water		Draft Method 1633	
FB-1-060723	23F1300-06	Field Blank		Draft Method 1633	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Draft Method 1633**Qualifications:**

H-01

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:**Total Suspended Solids**

23F1300-01[OS-3-060623], 23F1300-02[OS-4-060623], 23F1300-03[DUP-1-060623], 23F1300-04[MW-8-060723]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-3-060623

Sampled: 6/6/2023 14:14

Sample ID: 23F1300-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	4.8	3.8	1.4	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoropentanoic acid (PFPeA)	3.5	1.9	0.33	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorohexanoic acid (PFHxA)	3.0	0.94	0.20	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoroheptanoic acid (PFHpA)	1.8	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorooctanoic acid (PFOA)	1.5	0.94	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorononanoic acid (PFNA)	ND	0.94	0.18	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorodecanoic acid (PFDA)	ND	0.94	0.17	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.94	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.94	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.94	0.23	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorobutanesulfonic acid (PFBS)	2.6	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.94	0.22	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.72	0.94	0.19	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.94	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.94	0.28	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.94	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.65	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.93	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.94	0.39	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.94	0.41	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.94	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.4	2.5	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.4	2.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.98	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.65	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.80	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.8	0.91	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.4	1.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	47	9.6	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS

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Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-3-060623

Sampled: 6/6/2023 14:14

Sample ID: 23F1300-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.81	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	73.1		10-130				6/26/23 12:56			
13C5-PFPeA	79.1		35-150				6/26/23 12:56			
13C5-PFHxA	79.4		55-150				6/26/23 12:56			
13C4-PFHpA	76.7		55-150				6/26/23 12:56			
13C8-PFOA	78.9		60-140				6/26/23 12:56			
13C9-PFNA	77.4		55-140				6/26/23 12:56			
13C6-PFDA	78.7		50-140				6/26/23 12:56			
13C7-PFUnA	74.3		30-140				6/26/23 12:56			
13C2-PFDoA	70.4		10-150				6/26/23 12:56			
13C2-PFTeDA	70.6		10-130				6/26/23 12:56			
13C3-PFBS	79.2		55-150				6/26/23 12:56			
13C3-PFHxS	77.0		55-150				6/26/23 12:56			
13C8-PFOS	75.0		45-140				6/26/23 12:56			
13C2-4:2FTS	70.3		60-200				6/26/23 12:56			
13C2-6:2FTS	71.4		60-200				6/26/23 12:56			
13C2-8:2FTS	64.9		50-200				6/26/23 12:56			
13C8-PFOSA	70.9		30-130				6/26/23 12:56			
D3-NMeFOSA	65.4		15-130				6/26/23 12:56			
D5-NEtFOSA	67.3		10-130				6/26/23 12:56			
D3-NMeFOSAA	69.9		45-200				6/26/23 12:56			
D5-NEtFOSAA	71.7		10-200				6/26/23 12:56			
D7-NMeFOSE	65.3		10-150				6/26/23 12:56			
D9-NEtFOSE	65.0		10-150				6/26/23 12:56			
13C3-HFPO-DA	83.4		25-160				6/26/23 12:56			

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Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-3-060623

Sampled: 6/6/2023 14:14

Sample ID: 23F1300-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	10	mg/L	1	H-01	Draft Method 1633	6/14/23	6/14/23 12:03	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1300-02

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	3.7	1.4	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoropentanoic acid (PFPeA)	3.8	1.9	0.32	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorohexanoic acid (PFHxA)	4.3	0.93	0.20	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoroheptanoic acid (PFHpA)	2.4	0.93	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorooctanoic acid (PFOA)	11	0.93	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorononanoic acid (PFNA)	ND	0.93	0.18	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorodecanoic acid (PFDA)	ND	0.93	0.17	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.93	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	0.23	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorobutanesulfonic acid (PFBS)	7.2	0.93	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.71	0.93	0.22	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.7	0.93	0.19	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorooctanesulfonic acid (PFOS)	7.2	0.93	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.93	0.27	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.65	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	0.92	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.93	0.39	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.93	0.41	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.93	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.3	2.5	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	2.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.97	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.64	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.80	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.7	0.90	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.3	1.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	47	9.5	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.2	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1300-02

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.81	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	63.5		10-130				6/26/23 13:11			
13C5-PFPeA	75.8		35-150				6/26/23 13:11			
13C5-PFHxA	84.1		55-150				6/26/23 13:11			
13C4-PFHpA	81.1		55-150				6/26/23 13:11			
13C8-PFOA	84.2		60-140				6/26/23 13:11			
13C9-PFNA	85.2		55-140				6/26/23 13:11			
13C6-PFDA	82.9		50-140				6/26/23 13:11			
13C7-PFUnA	79.2		30-140				6/26/23 13:11			
13C2-PFDoA	71.8		10-150				6/26/23 13:11			
13C2-PFTeDA	71.0		10-130				6/26/23 13:11			
13C3-PFBS	82.4		55-150				6/26/23 13:11			
13C3-PFHxS	82.9		55-150				6/26/23 13:11			
13C8-PFOS	81.7		45-140				6/26/23 13:11			
13C2-4:2FTS	123		60-200				6/26/23 13:11			
13C2-6:2FTS	103		60-200				6/26/23 13:11			
13C2-8:2FTS	85.3		50-200				6/26/23 13:11			
13C8-PFOSA	68.0		30-130				6/26/23 13:11			
D3-NMeFOSA	62.1		15-130				6/26/23 13:11			
D5-NEtFOSA	61.7		10-130				6/26/23 13:11			
D3-NMeFOSAA	66.7		45-200				6/26/23 13:11			
D5-NEtFOSAA	69.6		10-200				6/26/23 13:11			
D7-NMeFOSE	60.8		10-150				6/26/23 13:11			
D9-NEtFOSE	57.7		10-150				6/26/23 13:11			
13C3-HFPO-DA	85.3		25-160				6/26/23 13:11			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1300-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	12	10	10	mg/L	1	H-01	Draft Method 1633	6/14/23	6/14/23 12:03	LL

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Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: DUP-1-060623

Sampled: 6/6/2023 00:00

Sample ID: 23F1300-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.2	3.8	1.4	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoropentanoic acid (PFPeA)	3.7	1.9	0.33	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorohexanoic acid (PFHxA)	3.0	0.95	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoroheptanoic acid (PFHpA)	1.9	0.95	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorooctanoic acid (PFOA)	1.7	0.95	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorononanoic acid (PFNA)	ND	0.95	0.18	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorodecanoic acid (PFDA)	ND	0.95	0.18	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.95	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.95	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.95	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.95	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorobutanesulfonic acid (PFBS)	3.0	0.95	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.95	0.23	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.73	0.95	0.20	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorooctanesulfonic acid (PFOS)	0.45	0.95	0.30	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.95	0.28	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.95	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.95	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.66	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.94	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.95	0.40	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.95	0.42	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.95	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.5	2.5	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.5	2.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.99	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.65	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.81	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.8	0.92	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.5	1.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	48	9.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	8.4	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS

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Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: DUP-1-060623

Sampled: 6/6/2023 00:00

Sample ID: 23F1300-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.82	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	77.2		10-130				6/26/23 13:27			
13C5-PFPeA	85.2		35-150				6/26/23 13:27			
13C5-PFHxA	86.6		55-150				6/26/23 13:27			
13C4-PFHpA	83.8		55-150				6/26/23 13:27			
13C8-PFOA	86.2		60-140				6/26/23 13:27			
13C9-PFNA	85.1		55-140				6/26/23 13:27			
13C6-PFDA	84.4		50-140				6/26/23 13:27			
13C7-PFUnA	81.9		30-140				6/26/23 13:27			
13C2-PFDoA	77.3		10-150				6/26/23 13:27			
13C2-PFTeDA	76.9		10-130				6/26/23 13:27			
13C3-PFBS	88.6		55-150				6/26/23 13:27			
13C3-PFHxS	88.0		55-150				6/26/23 13:27			
13C8-PFOS	79.9		45-140				6/26/23 13:27			
13C2-4:2FTS	79.3		60-200				6/26/23 13:27			
13C2-6:2FTS	81.8		60-200				6/26/23 13:27			
13C2-8:2FTS	75.4		50-200				6/26/23 13:27			
13C8-PFOSA	75.3		30-130				6/26/23 13:27			
D3-NMeFOSA	67.5		15-130				6/26/23 13:27			
D5-NEtFOSA	70.3		10-130				6/26/23 13:27			
D3-NMeFOSAA	76.7		45-200				6/26/23 13:27			
D5-NEtFOSAA	75.9		10-200				6/26/23 13:27			
D7-NMeFOSE	71.9		10-150				6/26/23 13:27			
D9-NEtFOSE	70.0		10-150				6/26/23 13:27			
13C3-HFPO-DA	90.9		25-160				6/26/23 13:27			

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Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: DUP-1-060623

Sampled: 6/6/2023 00:00

Sample ID: 23F1300-03

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	10	mg/L	1	H-01	Draft Method 1633	6/14/23	6/14/23 12:03	LL

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Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1300-04

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.1	3.9	1.4	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoropentanoic acid (PFPeA)	0.94	1.9	0.34	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorohexanoic acid (PFHxA)	0.63	0.97	0.21	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoroheptanoic acid (PFHpA)	0.38	0.97	0.25	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorooctanoic acid (PFOA)	1.3	0.97	0.22	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorononanoic acid (PFNA)	ND	0.97	0.19	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorodecanoic acid (PFDA)	ND	0.97	0.18	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.97	0.27	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.97	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.97	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.97	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorobutanesulfonic acid (PFBS)	0.62	0.97	0.25	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.97	0.23	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.32	0.97	0.20	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.97	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorooctanesulfonic acid (PFOS)	1.1	0.97	0.31	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.97	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.97	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.97	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	0.68	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	0.96	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	1.1	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.97	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.97	0.40	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.97	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.97	0.43	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.97	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.7	2.6	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.7	2.4	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	1.0	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	0.67	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.9	0.83	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.9	0.94	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.7	1.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	9.9	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	8.6	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.48	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.48	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1300-04

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.39	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.84	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	75.9		10-130				6/26/23 13:43			
13C5-PFPeA	89.5		35-150				6/26/23 13:43			
13C5-PFHxA	89.1		55-150				6/26/23 13:43			
13C4-PFHpA	85.7		55-150				6/26/23 13:43			
13C8-PFOA	87.7		60-140				6/26/23 13:43			
13C9-PFNA	89.3		55-140				6/26/23 13:43			
13C6-PFDA	85.7		50-140				6/26/23 13:43			
13C7-PFUnA	80.7		30-140				6/26/23 13:43			
13C2-PFDoA	73.8		10-150				6/26/23 13:43			
13C2-PFTeDA	75.2		10-130				6/26/23 13:43			
13C3-PFBS	90.8		55-150				6/26/23 13:43			
13C3-PFHxS	89.0		55-150				6/26/23 13:43			
13C8-PFOS	83.8		45-140				6/26/23 13:43			
13C2-4:2FTS	75.6		60-200				6/26/23 13:43			
13C2-6:2FTS	77.0		60-200				6/26/23 13:43			
13C2-8:2FTS	72.4		50-200				6/26/23 13:43			
13C8-PFOSA	78.3		30-130				6/26/23 13:43			
D3-NMeFOSA	68.6		15-130				6/26/23 13:43			
D5-NEtFOSA	71.8		10-130				6/26/23 13:43			
D3-NMeFOSAA	76.6		45-200				6/26/23 13:43			
D5-NEtFOSAA	74.2		10-200				6/26/23 13:43			
D7-NMeFOSE	68.5		10-150				6/26/23 13:43			
D9-NEtFOSE	65.7		10-150				6/26/23 13:43			
13C3-HFPO-DA	92.3		25-160				6/26/23 13:43			

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Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1300-04

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	10	mg/L	1	H-01	Draft Method 1633	6/14/23	6/14/23 12:03	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-1-060723

Sampled: 6/7/2023 15:32

Sample ID: 23F1300-05

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	4.0	3.8	1.4	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoropentanoic acid (PFPeA)	3.7	1.9	0.33	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorohexanoic acid (PFHxA)	2.9	0.94	0.20	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoroheptanoic acid (PFHpA)	3.6	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorooctanoic acid (PFOA)	4.9	0.94	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorononanoic acid (PFNA)	0.24	0.94	0.18	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorodecanoic acid (PFDA)	ND	0.94	0.17	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.94	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.94	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorobutanesulfonic acid (PFBS)	1.0	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.24	0.94	0.22	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.1	0.94	0.19	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorooctanesulfonic acid (PFOS)	3.9	0.94	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.94	0.28	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.94	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.66	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.93	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.94	0.39	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.94	0.41	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.94	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.4	2.5	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.4	2.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.98	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.65	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.80	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.8	0.91	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.4	1.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	47	9.6	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-1-060723

Sampled: 6/7/2023 15:32

Sample ID: 23F1300-05

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.81	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	76.7		10-130						6/26/23 14:14	
13C5-PFPeA	87.4		35-150						6/26/23 14:14	
13C5-PFHxA	88.7		55-150						6/26/23 14:14	
13C4-PFHpA	86.0		55-150						6/26/23 14:14	
13C8-PFOA	88.4		60-140						6/26/23 14:14	
13C9-PFNA	88.4		55-140						6/26/23 14:14	
13C6-PFDA	83.8		50-140						6/26/23 14:14	
13C7-PFUnA	80.6		30-140						6/26/23 14:14	
13C2-PFDoA	75.6		10-150						6/26/23 14:14	
13C2-PFTeDA	77.7		10-130						6/26/23 14:14	
13C3-PFBS	90.8		55-150						6/26/23 14:14	
13C3-PFHxS	88.0		55-150						6/26/23 14:14	
13C8-PFOS	84.6		45-140						6/26/23 14:14	
13C2-4:2FTS	89.7		60-200						6/26/23 14:14	
13C2-6:2FTS	84.7		60-200						6/26/23 14:14	
13C2-8:2FTS	74.9		50-200						6/26/23 14:14	
13C8-PFOSA	79.4		30-130						6/26/23 14:14	
D3-NMeFOSA	70.2		15-130						6/26/23 14:14	
D5-NEtFOSA	73.3		10-130						6/26/23 14:14	
D3-NMeFOSAA	78.1		45-200						6/26/23 14:14	
D5-NEtFOSAA	75.5		10-200						6/26/23 14:14	
D7-NMeFOSE	71.7		10-150						6/26/23 14:14	
D9-NEtFOSE	70.3		10-150						6/26/23 14:14	
13C3-HFPO-DA	88.4		25-160						6/26/23 14:14	

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Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-1-060723

Sampled: 6/7/2023 15:32

Sample ID: 23F1300-05

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	10	mg/L	1		Draft Method 1633	6/14/23	6/14/23 12:03	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: FB-1-060723

Sampled: 6/7/2023 08:05

Sample ID: 23F1300-06

Sample Matrix: Field Blank

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	10	mg/L	1		Draft Method 1633	6/13/23	7/11/23 8:01	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**Prep Method:**Draft Method 1633 **Analytical Method:**Draft Method 1633 **Leachates were extracted on 6/14/2023 per NO PREP in Batch B343192**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F1300-01 [OS-3-060623]	B343020	532	5.00	06/21/23
23F1300-02 [OS-4-060623]	B343020	536	5.00	06/21/23
23F1300-03 [DUP-1-060623]	B343020	525	5.00	06/21/23
23F1300-04 [MW-8-060723]	B343020	515	5.00	06/21/23
23F1300-05 [OS-1-060723]	B343020	532	5.00	06/21/23

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23F1300-06 [FB-1-060723]	B343122	50.0	06/13/23

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23F1300-01 [OS-3-060623]	B343192	50.0	06/14/23
23F1300-02 [OS-4-060623]	B343192	50.0	06/14/23
23F1300-03 [DUP-1-060623]	B343192	50.0	06/14/23
23F1300-04 [MW-8-060723]	B343192	50.0	06/14/23
23F1300-05 [OS-1-060723]	B343192	50.0	06/14/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343020 - Draft Method 1633										
Blank (B343020-BLK1)										
				Prepared: 06/21/23 Analyzed: 06/26/23						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.98	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.98	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.98	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.98	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.98	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.98	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L							
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.98	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.98	ng/L							
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.8	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	86.2		ng/L	98.0		88.0	10-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343020 - Draft Method 1633
Blank (B343020-BLK1)

Prepared: 06/21/23 Analyzed: 06/26/23

Surrogate: 13C5-PFPeA	43.1		ng/L	49.0		88.0	35-150			
Surrogate: 13C5-PFHxA	21.7		ng/L	24.5		88.4	55-150			
Surrogate: 13C4-PFHpA	21.0		ng/L	24.5		85.8	55-150			
Surrogate: 13C8-PFOA	21.2		ng/L	24.5		86.4	60-140			
Surrogate: 13C9-PFNA	10.8		ng/L	12.3		87.8	55-140			
Surrogate: 13C6-PFDA	10.5		ng/L	12.3		85.3	50-140			
Surrogate: 13C7-PFUnA	10.2		ng/L	12.3		83.1	30-140			
Surrogate: 13C2-PFDoA	10.2		ng/L	12.3		83.3	10-150			
Surrogate: 13C2-PFTeDA	9.77		ng/L	12.3		79.7	10-130			
Surrogate: 13C3-PFBS	21.3		ng/L	24.5		86.7	55-150			
Surrogate: 13C3-PFHxS	20.6		ng/L	24.5		84.1	55-150			
Surrogate: 13C8-PFOS	20.3		ng/L	24.5		83.0	45-140			
Surrogate: 13C2-4:2FTS	35.0		ng/L	49.0		71.4	60-200			
Surrogate: 13C2-6:2FTS	32.9		ng/L	49.0		67.2	60-200			
Surrogate: 13C2-8:2FTS	32.7		ng/L	49.0		66.7	50-200			
Surrogate: 13C8-PFOA	18.7		ng/L	24.5		76.3	30-130			
Surrogate: D3-NMeFOSA	17.9		ng/L	24.5		72.9	15-130			
Surrogate: D5-NEtFOSA	18.3		ng/L	24.5		74.8	10-130			
Surrogate: D3-NMeFOSAA	36.0		ng/L	49.0		73.4	45-200			
Surrogate: D5-NEtFOSAA	39.8		ng/L	49.0		81.1	10-200			
Surrogate: D7-NMeFOSE	182		ng/L	245		74.4	10-150			
Surrogate: D9-NEtFOSE	181		ng/L	245		73.7	10-150			
Surrogate: 13C3-HFPO-DA	88.7		ng/L	98.0		90.5	25-160			

LCS (B343020-BS1)

Prepared: 06/21/23 Analyzed: 06/26/23

Perfluorobutanoic acid (PFBA)	99.9	3.9	ng/L	94.2		106	58-148			
Perfluoropentanoic acid (PFPeA)	50.0	2.0	ng/L	47.1		106	54-152			
Perfluorohexanoic acid (PFHxA)	25.2	0.98	ng/L	23.6		107	55-152			
Perfluoroheptanoic acid (PFHpA)	24.5	0.98	ng/L	23.6		104	54-154			
Perfluorooctanoic acid (PFOA)	24.6	0.98	ng/L	23.6		104	52-161			
Perfluorononanoic acid (PFNA)	23.7	0.98	ng/L	23.6		101	59-149			
Perfluorodecanoic acid (PFDA)	23.9	0.98	ng/L	23.6		101	52-147			
Perfluoroundecanoic acid (PFUnA)	25.3	0.98	ng/L	23.6		107	48-159			
Perfluorododecanoic acid (PFDoA)	25.6	0.98	ng/L	23.6		108	64-142			
Perfluorotridecanoic acid (PFTTrDA)	26.4	0.98	ng/L	23.6		112	49-148			
Perfluorotetradecanoic acid (PFTeDA)	25.3	0.98	ng/L	23.6		107	47-161			
Perfluorobutanesulfonic acid (PFBS)	22.3	0.98	ng/L	20.9		106	62-144			
Perfluoropentanesulfonic acid (PFPeS)	23.6	0.98	ng/L	22.1		107	59-151			
Perfluorohexanesulfonic acid (PFHxS)	22.3	0.98	ng/L	21.6		104	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	24.8	0.98	ng/L	22.4		110	55-152			
Perfluorooctanesulfonic acid (PFOS)	21.8	0.98	ng/L	21.9		99.7	58-149			
Perfluorononanesulfonic acid (PFNS)	24.2	0.98	ng/L	22.7		107	52-148			
Perfluorodecanesulfonic acid (PFDS)	22.5	0.98	ng/L	22.7		99.1	51-147			
Perfluorododecanesulfonic acid (PFDoS)	23.3	0.98	ng/L	22.9		102	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	93.6	3.9	ng/L	88.4		106	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	96.5	3.9	ng/L	89.5		108	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	101	3.9	ng/L	90.7		111	63-152			
Perfluorooctanesulfonamide (PFOSA)	24.4	0.98	ng/L	23.6		104	61-148			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	23.5	0.98	ng/L	23.6		99.6	63-145			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343020 - Draft Method 1633
LCS (B343020-BS1)

Prepared: 06/21/23 Analyzed: 06/26/23

N-ethyl perfluorooctanesulfonamide (NEtFOSA)	24.0	0.98	ng/L	23.6		102	65-139			
N-MeFOSAA (NMeFOSAA)	24.0	0.98	ng/L	23.6		102	58-144			
N-EtFOSAA (NEtFOSAA)	25.3	0.98	ng/L	23.6		107	59-146			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	243	9.8	ng/L	236		103	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	248	9.8	ng/L	236		105	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	105	3.9	ng/L	94.2		112	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	93.1	3.9	ng/L	88.9		105	68-146			
9Cl-PF3ONS (F53B Minor)	92.2	3.9	ng/L	88.4		104	56-156			
11Cl-PF3OUDS (F53B Major)	93.3	3.9	ng/L	88.9		105	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	254	9.8	ng/L	236		108	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	1340	49	ng/L	1180		113	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1270	49	ng/L	1180		108	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	42.8	2.0	ng/L	41.9		102	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	46.7	2.0	ng/L	47.1		99.1	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	46.4	2.0	ng/L	47.1		98.5	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	49.8	2.0	ng/L	47.1		106	48-161			
Surrogate: 13C4-PFBA	79.8		ng/L	98.2		81.3	10-130			
Surrogate: 13C5-PFPeA	39.9		ng/L	49.1		81.3	35-150			
Surrogate: 13C5-PFHxA	19.8		ng/L	24.5		80.5	55-150			
Surrogate: 13C4-PFHpA	19.5		ng/L	24.5		79.5	55-150			
Surrogate: 13C8-PFOA	19.4		ng/L	24.5		79.1	60-140			
Surrogate: 13C9-PFNA	10.3		ng/L	12.3		83.8	55-140			
Surrogate: 13C6-PFDA	9.96		ng/L	12.3		81.2	50-140			
Surrogate: 13C7-PFUnA	9.80		ng/L	12.3		79.9	30-140			
Surrogate: 13C2-PFDoA	9.31		ng/L	12.3		75.9	10-150			
Surrogate: 13C2-PFTeDA	9.42		ng/L	12.3		76.8	10-130			
Surrogate: 13C3-PFBS	19.5		ng/L	24.5		79.6	55-150			
Surrogate: 13C3-PFHxS	19.1		ng/L	24.5		77.7	55-150			
Surrogate: 13C8-PFOS	19.5		ng/L	24.5		79.5	45-140			
Surrogate: 13C2-4:2FTS	35.5		ng/L	49.1		72.3	60-200			
Surrogate: 13C2-6:2FTS	34.7		ng/L	49.1		70.6	60-200			
Surrogate: 13C2-8:2FTS	33.8		ng/L	49.1		68.9	50-200			
Surrogate: 13C8-PFOSA	18.7		ng/L	24.5		76.3	30-130			
Surrogate: D3-NMeFOSA	17.6		ng/L	24.5		71.7	15-130			
Surrogate: D5-NEtFOSA	17.5		ng/L	24.5		71.3	10-130			
Surrogate: D3-NMeFOSAA	36.7		ng/L	49.1		74.7	45-200			
Surrogate: D5-NEtFOSAA	36.2		ng/L	49.1		73.8	10-200			
Surrogate: D7-NMeFOSE	179		ng/L	245		72.9	10-150			
Surrogate: D9-NEtFOSE	177		ng/L	245		72.1	10-150			
Surrogate: 13C3-HFPO-DA	77.5		ng/L	98.2		78.9	25-160			

MRL Check (B343020-MRL1)

Prepared: 06/21/23 Analyzed: 06/26/23

Perfluorobutanoic acid (PFBA)	8.56	3.9	ng/L	7.80		110	44-157			
Perfluoropentanoic acid (PFPeA)	4.06	1.9	ng/L	3.90		104	57-148			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343020 - Draft Method 1633										
MRL Check (B343020-MRL1)										
Prepared: 06/21/23 Analyzed: 06/26/23										
Perfluorohexanoic acid (PFHxA)	1.93	0.97	ng/L	1.95		99.1	62-149			
Perfluoroheptanoic acid (PFHpA)	1.91	0.97	ng/L	1.95		97.9	56-150			
Perfluorooctanoic acid (PFOA)	1.93	0.97	ng/L	1.95		99.2	57-161			
Perfluorononanoic acid (PFNA)	1.81	0.97	ng/L	1.95		93.0	53-157			
Perfluorodecanoic acid (PFDA)	1.88	0.97	ng/L	1.95		96.7	43-158			
Perfluoroundecanoic acid (PFUnA)	1.77	0.97	ng/L	1.95		90.6	50-155			
Perfluorododecanoic acid (PFDoA)	1.93	0.97	ng/L	1.95		99.2	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.95	0.97	ng/L	1.95		99.9	52-140			
Perfluorotetradecanoic acid (PFTeDA)	1.90	0.97	ng/L	1.95		97.3	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.73	0.97	ng/L	1.73		100	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.77	0.97	ng/L	1.83		96.4	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.81	0.97	ng/L	1.78		102	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.86	0.97	ng/L	1.86		100	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.90	0.97	ng/L	1.81		105	43-162			
Perfluorononanesulfonic acid (PFNS)	1.96	0.97	ng/L	1.88		104	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.77	0.97	ng/L	1.88		94.0	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.83	0.97	ng/L	1.89		96.8	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.51	3.9	ng/L	7.31		103	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.50	3.9	ng/L	7.41		101	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.94	3.9	ng/L	7.50		106	46-165			
Perfluorooctanesulfonamide (PFOSA)	1.97	0.97	ng/L	1.95		101	47-163			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	1.79	0.97	ng/L	1.95		91.9	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.75	0.97	ng/L	1.95		89.8	49-156			
N-MeFOSAA (NMeFOSAA)	1.84	0.97	ng/L	1.95		94.4	32-160			
N-EtFOSAA (NEtFOSAA)	1.64	0.97	ng/L	1.95		84.1	51-154			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	18.9	9.7	ng/L	19.5		96.8	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.6	9.7	ng/L	19.5		101	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.35	3.9	ng/L	7.80		94.2	58-154			
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	6.60	3.9	ng/L	7.36		89.7	61-148			
9Cl-PF3ONS (F53B Minor)	6.49	3.9	ng/L	7.31		88.8	44-167			
11Cl-PF3OUDS (F53B Major)	6.57	3.9	ng/L	7.36		89.2	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	19.4	9.7	ng/L	19.5		99.5	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	101	49	ng/L	97.5		103	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	98.0	49	ng/L	97.5		101	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	3.30	1.9	ng/L	3.47		95.1	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.59	1.9	ng/L	3.90		92.0	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.57	1.9	ng/L	3.90		91.5	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.96	1.9	ng/L	3.90		101	47-160			
Surrogate: 13C4-PFBA	76.9		ng/L	97.5		78.9	10-130			
Surrogate: 13C5-PFPeA	38.3		ng/L	48.7		78.6	35-150			
Surrogate: 13C5-PFHxA	19.0		ng/L	24.4		77.8	55-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343020 - Draft Method 1633
MRL Check (B343020-MRL1)

Prepared: 06/21/23 Analyzed: 06/26/23

Surrogate: 13C4-PFHpA	18.6		ng/L	24.4		76.5	55-150			
Surrogate: 13C8-PFOA	18.2		ng/L	24.4		74.7	60-140			
Surrogate: 13C9-PFNA	9.53		ng/L	12.2		78.2	55-140			
Surrogate: 13C6-PFDA	9.11		ng/L	12.2		74.8	50-140			
Surrogate: 13C7-PFUnA	9.07		ng/L	12.2		74.5	30-140			
Surrogate: 13C2-PFDoA	8.57		ng/L	12.2		70.3	10-150			
Surrogate: 13C2-PFTeDA	8.54		ng/L	12.2		70.1	10-130			
Surrogate: 13C3-PFBS	18.7		ng/L	24.4		76.7	55-150			
Surrogate: 13C3-PFHxS	18.7		ng/L	24.4		76.6	55-150			
Surrogate: 13C8-PFOS	18.3		ng/L	24.4		75.0	45-140			
Surrogate: 13C2-4:2FTS	31.1		ng/L	48.7		63.8	60-200			
Surrogate: 13C2-6:2FTS	29.7		ng/L	48.7		60.9	60-200			
Surrogate: 13C2-8:2FTS	29.5		ng/L	48.7		60.5	50-200			
Surrogate: 13C8-PFOSA	17.1		ng/L	24.4		70.1	30-130			
Surrogate: D3-NMeFOSA	15.5		ng/L	24.4		63.5	15-130			
Surrogate: D5-NEtFOSA	16.2		ng/L	24.4		66.7	10-130			
Surrogate: D3-NMeFOSAA	33.3		ng/L	48.7		68.3	45-200			
Surrogate: D5-NEtFOSAA	33.5		ng/L	48.7		68.8	10-200			
Surrogate: D7-NMeFOSE	163		ng/L	244		66.8	10-150			
Surrogate: D9-NEtFOSE	156		ng/L	244		64.0	10-150			
Surrogate: 13C3-HFPO-DA	77.2		ng/L	97.5		79.2	25-160			

Matrix Spike (B343020-MS1)

Source: 23F1300-05

Prepared: 06/21/23 Analyzed: 06/26/23

Perfluorobutanoic acid (PFBA)	111	3.9	ng/L	93.4	3.95	115	58-148			
Perfluoropentanoic acid (PFPeA)	56.6	1.9	ng/L	46.7	3.67	113	54-152			
Perfluorohexanoic acid (PFHxA)	29.3	0.97	ng/L	23.3	2.88	113	55-152			
Perfluoroheptanoic acid (PFHpA)	29.7	0.97	ng/L	23.3	3.57	112	54-154			
Perfluorooctanoic acid (PFOA)	31.5	0.97	ng/L	23.3	4.85	114	52-161			
Perfluorononanoic acid (PFNA)	26.6	0.97	ng/L	23.3	0.240	113	59-149			
Perfluorodecanoic acid (PFDA)	25.3	0.97	ng/L	23.3	ND	108	52-147			
Perfluoroundecanoic acid (PFUnA)	26.1	0.97	ng/L	23.3	ND	112	48-159			
Perfluorododecanoic acid (PFDoA)	26.7	0.97	ng/L	23.3	ND	114	64-142			
Perfluorotridecanoic acid (PFTrDA)	27.5	0.97	ng/L	23.3	ND	118	49-148			
Perfluorotetradecanoic acid (PFTeDA)	26.7	0.97	ng/L	23.3	ND	114	47-161			
Perfluorobutanesulfonic acid (PFBS)	24.1	0.97	ng/L	20.7	1.01	111	62-144			
Perfluoropentanesulfonic acid (PFPeS)	25.5	0.97	ng/L	21.9	0.236	115	59-151			
Perfluorohexanesulfonic acid (PFHxS)	25.2	0.97	ng/L	21.4	1.13	113	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	26.8	0.97	ng/L	22.2	ND	121	55-152			
Perfluorooctanesulfonic acid (PFOS)	28.8	0.97	ng/L	21.7	3.94	115	58-149			
Perfluorononanesulfonic acid (PFNS)	24.2	0.97	ng/L	22.5	ND	108	52-148			
Perfluorodecanesulfonic acid (PFDS)	23.3	0.97	ng/L	22.5	ND	104	51-147			
Perfluorododecanesulfonic acid (PFDoS)	24.6	0.97	ng/L	22.6	ND	108	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	101	3.9	ng/L	87.6	ND	115	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	105	3.9	ng/L	88.7	ND	118	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	104	3.9	ng/L	89.9	ND	115	63-152			
Perfluorooctanesulfonamide (PFOSA)	26.3	0.97	ng/L	23.3	ND	113	61-148			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	24.0	0.97	ng/L	23.3	ND	103	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	24.8	0.97	ng/L	23.3	ND	106	65-139			
N-MeFOSAA (NMeFOSAA)	24.6	0.97	ng/L	23.3	ND	106	58-144			

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343020 - Draft Method 1633

Matrix Spike (B343020-MS1)		Source: 23F1300-05		Prepared: 06/21/23 Analyzed: 06/26/23						
N-EtFOSAA (NEtFOSAA)	24.9	0.97	ng/L	23.3	ND	107	59-146			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	262	9.7	ng/L	233	ND	112	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	259	9.7	ng/L	233	ND	111	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	98.7	3.9	ng/L	93.4	ND	106	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	92.8	3.9	ng/L	88.1	ND	105	68-146			
9Cl-PF3ONS (F53B Minor)	91.4	3.9	ng/L	87.6	ND	104	56-156			
11Cl-PF3OUdS (F53B Major)	86.8	3.9	ng/L	88.1	ND	98.5	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	276	9.7	ng/L	233	ND	118	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	1400	49	ng/L	1170	ND	120	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1320	49	ng/L	1170	ND	113	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	44.5	1.9	ng/L	41.6	ND	107	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	48.6	1.9	ng/L	46.7	ND	104	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	48.8	1.9	ng/L	46.7	ND	104	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50.8	1.9	ng/L	46.7	ND	109	48-161			
Surrogate: 13C4-PFBA	65.3		ng/L	97.3		67.1	10-130			
Surrogate: 13C5-PFPeA	38.8		ng/L	48.6		79.8	35-150			
Surrogate: 13C5-PFHxA	19.6		ng/L	24.3		80.7	55-150			
Surrogate: 13C4-PFHpA	19.0		ng/L	24.3		78.1	55-150			
Surrogate: 13C8-PFOA	19.2		ng/L	24.3		79.1	60-140			
Surrogate: 13C9-PFNA	9.50		ng/L	12.2		78.1	55-140			
Surrogate: 13C6-PFDA	9.42		ng/L	12.2		77.4	50-140			
Surrogate: 13C7-PFUnA	9.08		ng/L	12.2		74.7	30-140			
Surrogate: 13C2-PFDoA	8.53		ng/L	12.2		70.2	10-150			
Surrogate: 13C2-PFTeDA	8.65		ng/L	12.2		71.1	10-130			
Surrogate: 13C3-PFBS	20.2		ng/L	24.3		82.9	55-150			
Surrogate: 13C3-PFHxS	19.3		ng/L	24.3		79.2	55-150			
Surrogate: 13C8-PFOS	18.3		ng/L	24.3		75.2	45-140			
Surrogate: 13C2-4:2FTS	42.4		ng/L	48.6		87.2	60-200			
Surrogate: 13C2-6:2FTS	37.7		ng/L	48.6		77.6	60-200			
Surrogate: 13C2-8:2FTS	35.1		ng/L	48.6		72.2	50-200			
Surrogate: 13C8-PFOA	16.9		ng/L	24.3		69.7	30-130			
Surrogate: D3-NMeFOSA	15.9		ng/L	24.3		65.4	15-130			
Surrogate: D5-NEtFOSA	15.7		ng/L	24.3		64.7	10-130			
Surrogate: D3-NMeFOSAA	32.4		ng/L	48.6		66.6	45-200			
Surrogate: D5-NEtFOSAA	33.2		ng/L	48.6		68.4	10-200			
Surrogate: D7-NMeFOSE	154		ng/L	243		63.5	10-150			
Surrogate: D9-NEtFOSE	151		ng/L	243		62.0	10-150			
Surrogate: 13C3-HFPO-DA	80.6		ng/L	97.3		82.9	25-160			

Matrix Spike Dup (B343020-MSD1)		Source: 23F1300-05		Prepared: 06/21/23 Analyzed: 06/26/23						
Perfluorobutanoic acid (PFBA)	112	3.8	ng/L	90.7	3.95	119	58-148	0.476	20	
Perfluoropentanoic acid (PFPeA)	57.3	1.9	ng/L	45.3	3.67	118	54-152	1.27	20	
Perfluorohexanoic acid (PFHxA)	29.2	0.94	ng/L	22.7	2.88	116	55-152	0.593	25	
Perfluoroheptanoic acid (PFHpA)	30.0	0.94	ng/L	22.7	3.57	116	54-154	1.00	25	
Perfluorooctanoic acid (PFOA)	31.8	0.94	ng/L	22.7	4.85	119	52-161	0.929	25	

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B343020 - Draft Method 1633										
Matrix Spike Dup (B343020-MSD1)	Source: 23F1300-05			Prepared: 06/21/23 Analyzed: 06/26/23						
Perfluorononanoic acid (PFNA)	26.7	0.94	ng/L	22.7	0.240	117	59-149	0.123	25	
Perfluorodecanoic acid (PFDA)	25.5	0.94	ng/L	22.7	ND	113	52-147	1.04	25	
Perfluoroundecanoic acid (PFUnA)	26.4	0.94	ng/L	22.7	ND	117	48-159	1.13	30	
Perfluorododecanoic acid (PFDoA)	27.1	0.94	ng/L	22.7	ND	120	64-142	1.52	25	
Perfluorotridecanoic acid (PFTTrDA)	26.7	0.94	ng/L	22.7	ND	118	49-148	2.91	25	
Perfluorotetradecanoic acid (PFTeDA)	26.8	0.94	ng/L	22.7	ND	118	47-161	0.402	25	
Perfluorobutanesulfonic acid (PFBS)	25.1	0.94	ng/L	20.1	1.01	120	62-144	4.11	20	
Perfluoropentanesulfonic acid (PFPeS)	25.9	0.94	ng/L	21.3	0.236	121	59-151	1.60	25	
Perfluorohexanesulfonic acid (PFHxS)	25.4	0.94	ng/L	20.7	1.13	117	57-146	0.706	25	
Perfluoroheptanesulfonic acid (PFHpS)	26.8	0.94	ng/L	21.6	ND	124	55-152	0.0153	25	
Perfluorooctanesulfonic acid (PFOS)	28.0	0.94	ng/L	21.0	3.94	115	58-149	2.83	20	
Perfluorononanesulfonic acid (PFNS)	23.5	0.94	ng/L	21.8	ND	108	52-148	2.82	25	
Perfluorodecanesulfonic acid (PFDS)	22.4	0.94	ng/L	21.9	ND	102	51-147	4.14	25	
Perfluorododecanesulfonic acid (PFDoS)	23.4	0.94	ng/L	22.0	ND	106	36-145	4.91	30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	108	3.8	ng/L	85.0	ND	126	67-146	6.25	25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	105	3.8	ng/L	86.2	ND	121	61-151	0.349	30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	107	3.8	ng/L	87.3	ND	123	63-152	3.36	30	
Perfluorooctanesulfonamide (PFOSA)	27.1	0.94	ng/L	22.7	ND	119	61-148	2.94	20	
N-methyl perfluorooctanesulfonamide (NMeFOSA)	25.8	0.94	ng/L	22.7	ND	114	63-145	7.18	25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.4	0.94	ng/L	22.7	ND	112	65-139	2.25	25	
N-MeFOSAA (NMeFOSAA)	26.5	0.94	ng/L	22.7	ND	117	58-144	7.47	25	
N-EtFOSAA (NEtFOSAA)	26.3	0.94	ng/L	22.7	ND	116	59-146	5.56	25	
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	266	9.4	ng/L	227	ND	117	71-136	1.47	20	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	269	9.4	ng/L	227	ND	119	69-137	3.71	25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.1	3.8	ng/L	90.7	ND	109	63-144	0.341	25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	90.4	3.8	ng/L	85.6	ND	106	68-146	2.67	20	
9Cl-PF3ONS (F53B Minor)	87.5	3.8	ng/L	85.0	ND	103	56-156	4.28	30	
11Cl-PF3OUdS (F53B Major)	84.9	3.8	ng/L	85.6	ND	99.3	46-156	2.15	35	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	268	9.4	ng/L	227	ND	118	62-129	2.78	20	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1360	47	ng/L	1130	ND	120	63-134	2.91	20	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1320	47	ng/L	1130	ND	117	50-138	0.0250	25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	43.2	1.9	ng/L	40.4	ND	107	56-151	2.90	20	
Perfluoro-3-methoxypropanoic acid (PFMPA)	47.9	1.9	ng/L	45.3	ND	106	51-145	1.54	25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	48.7	1.9	ng/L	45.3	ND	107	55-148	0.263	20	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	49.5	1.9	ng/L	45.3	ND	109	48-161	2.62	35	
Surrogate: 13C4-PFBA	64.2		ng/L	94.5		67.9	10-130			
Surrogate: 13C5-PFPeA	36.1		ng/L	47.2		76.5	35-150			
Surrogate: 13C5-PFHxA	18.6		ng/L	23.6		78.8	55-150			
Surrogate: 13C4-PFHpA	17.9		ng/L	23.6		75.8	55-150			
Surrogate: 13C8-PFOA	18.1		ng/L	23.6		76.7	60-140			
Surrogate: 13C9-PFNA	9.13		ng/L	11.8		77.3	55-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343020 - Draft Method 1633
Matrix Spike Dup (B343020-MSD1)
Source: 23F1300-05

Prepared: 06/21/23 Analyzed: 06/26/23

Surrogate: 13C6-PFDA	9.08		ng/L	11.8		76.9	50-140			
Surrogate: 13C7-PFUnA	8.48		ng/L	11.8		71.8	30-140			
Surrogate: 13C2-PFDoA	8.32		ng/L	11.8		70.4	10-150			
Surrogate: 13C2-PFTeDA	8.08		ng/L	11.8		68.5	10-130			
Surrogate: 13C3-PFBS	18.7		ng/L	23.6		79.3	55-150			
Surrogate: 13C3-PFHxS	18.2		ng/L	23.6		77.0	55-150			
Surrogate: 13C8-PFOS	18.2		ng/L	23.6		77.2	45-140			
Surrogate: 13C2-4:2FTS	39.2		ng/L	47.2		82.9	60-200			
Surrogate: 13C2-6:2FTS	35.4		ng/L	47.2		75.0	60-200			
Surrogate: 13C2-8:2FTS	33.4		ng/L	47.2		70.8	50-200			
Surrogate: 13C8-PFOSA	16.5		ng/L	23.6		70.0	30-130			
Surrogate: D3-NMeFOSA	15.0		ng/L	23.6		63.5	15-130			
Surrogate: D5-NEtFOSA	15.3		ng/L	23.6		64.9	10-130			
Surrogate: D3-NMeFOSAA	32.0		ng/L	47.2		67.8	45-200			
Surrogate: D5-NEtFOSAA	32.9		ng/L	47.2		69.7	10-200			
Surrogate: D7-NMeFOSE	151		ng/L	236		64.1	10-150			
Surrogate: D9-NEtFOSE	148		ng/L	236		62.6	10-150			
Surrogate: 13C3-HFPO-DA	73.8		ng/L	94.5		78.1	25-160			

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B343192 - Draft Method 1633
Blank (B343192-BLK1)

Prepared & Analyzed: 06/14/23

Total Suspended Solids	ND	5.0	mg/L							
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LCS (B343192-BS1)

Prepared & Analyzed: 06/14/23

Total Suspended Solids	185	5.0	mg/L	200		92.5	64.1-125			
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>Draft Method 1633 in Water</i>	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	NH-P,NY,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2024

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

ENV-FRM-ELON-0001 V05__Sample Receiving Checklist

Log In Back-Sheet

Login Sample Receipt Checklist - (Rejection Criteria Listing
- Using Acceptance Policy) Any False statement will be
brought to the attention of the Client - True or False

Client AECOMProject Former ClearinghouseMCP/RCP Required N/ADeliverable Package Requirement N/ALocation N/APWSID# (When Applicable) N/A

Arrival Method:

 Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐
Received By / Date / Time DW 6/12/16 3:30~~Back Sheet By / Date / Time~~ LA 6/12/16 3:17Temperature Method gun #5Temp ☒ < 6° C Actual Temperature 2.2/4.5/31Rush Samples: Yes / ☒ No NotifyShort Hold: Yes / ☒ No Notify

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☐	☒
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐

COC Included: (Check all included)

Client ☒	Analysis ☒	Sampler Name ☒
Project ☒	IDs ☒	Collection Date/Time ☒

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

Sample	Soils Jars				Ambers				Plastics				VOA Vials				Other / Fill in			
	(Circle Amb/Clear)																			
1	16oz Amb/Clear				Unpreserved				Unpreserved				Unpreserved				Unpreserved			
2	8oz Amb/Clear				HCL				Sulfuric				HCL				MeOH			
3	4oz Amb/Clear				Sulfuric				Unpreserved				NaOH				D.I. Water			
4	2oz Amb/Clear				Phosphoric				Sulfuric				NaOH/Zinc				BiSulfate			
5					HCL				Unpreserved								Col/Bact			
6					Unpreserved				Trizma											
7					Unpreserved				Sulfuric											
8					Sulfuric				Nitric											
9					Unpreserved				NaOH											
10					Unpreserved				NaOH/Zinc											
11					Unpreserved				Unpreserved											
12					Sulfuric				Trizma											
13					Unpreserved				Sulfuric											
14					Sulfuric				Nitric											
15					Unpreserved				NaOH											
16					Unpreserved				NaOH/Zinc											
17					Unpreserved				Unpreserved											
18					Sulfuric				Trizma											
19					Unpreserved				Sulfuric											
20					Sulfuric				Nitric											



Microbac Laboratories, Inc., Oak Ridge

CERTIFICATE OF ANALYSIS

Z3F0058

Project Description

Former Cleanerama 60702147 NYSDEC

For:

Walt Howard

Aecom Co.

40 British American Boulevard

Latham, NY 12110

Project Manager

Maraëa Clark

Friday, June 16, 2023

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Oak Ridge. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

800 Oak Ridge Turnpike | Oak Ridge, TN 37830 | 865-687-4887 p | www.microbac.com



Microbac Laboratories, Inc., Oak Ridge

CERTIFICATE OF ANALYSIS

Z3F0058

Aecom Co.

Walt Howard
40 British American Boulevard
Latham, NY 12110

Project Name: Former Cleanerama 60702147

NYSDEC

Project / PO Number: Former Cleanerama 60702147 N

Received: 06/08/2023

Reported: 06/16/2023

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
IW-1-060723	Z3F0058-01	Aqueous			06/07/23 09:51	06/08/23 10:49
MW-8-060723	Z3F0058-02	Aqueous			06/07/23 11:15	06/08/23 10:49
MW-9R-060723	Z3F0058-03	Aqueous			06/07/23 13:30	06/08/23 10:49
OS-1-060723	Z3F0058-04	Aqueous			06/07/23 15:32	06/08/23 10:49
MW-2-060723	Z3F0058-05	Aqueous			06/07/23 09:30	06/08/23 10:49
MW-6-060723	Z3F0058-06	Aqueous			06/07/23 12:10	06/08/23 10:49
IW-2-060723	Z3F0058-07	Aqueous			06/07/23 16:00	06/08/23 10:49
MW-1-060723	Z3F0058-08	Aqueous			06/07/23 16:35	06/08/23 10:49



Microbac Laboratories, Inc., Oak Ridge

CERTIFICATE OF ANALYSIS

Z3F0058

Analytical Testing Parameters

Client Sample ID:	IW-1-060723	Collection Date:	06/07/2023 9:51
Sample Matrix:	Aqueous		
Lab Sample ID:	Z3F0058-01		

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	816		gene copies/L	1		06/14/23 1149	06/16/23 1131	NJM
Dehalococcoides spp. (DHc)	280000	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Trichloroethene Reductase (tceA)	4360	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (bvcA)	199000	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (vcrA)	447000	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM

Client Sample ID:	MW-8-060723	Collection Date:	06/07/2023 11:15
Sample Matrix:	Aqueous		
Lab Sample ID:	Z3F0058-02		

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	25500		gene copies/L	1		06/14/23 1149	06/16/23 1131	NJM
Dehalococcoides spp. (DHc)	1550000	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Trichloroethene Reductase (tceA)	11600	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (bvcA)	881000	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (vcrA)	1880000	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM

Client Sample ID:	MW-9R-060723	Collection Date:	06/07/2023 13:30
Sample Matrix:	Aqueous		
Lab Sample ID:	Z3F0058-03		

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	811		gene copies/L	1		06/14/23 1149	06/16/23 1131	NJM
Dehalococcoides spp. (DHc)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM



Microbac Laboratories, Inc., Oak Ridge

CERTIFICATE OF ANALYSIS

Z3F0058

Client Sample ID: OS-1-060723
Sample Matrix: Aqueous
Lab Sample ID: Z3F0058-04

Collection Date: 06/07/2023 15:32

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	1090		gene copies/L	1		06/14/23 1149	06/16/23 1131	NJM
Dehalococcoides spp. (DHc)	1510000	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM

Client Sample ID: MW-2-060723
Sample Matrix: Aqueous
Lab Sample ID: Z3F0058-05

Collection Date: 06/07/2023 9:30

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	153		gene copies/L	1		06/14/23 1149	06/16/23 1131	NJM
Dehalococcoides spp. (DHc)	247000	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM

Client Sample ID: MW-6-060723
Sample Matrix: Aqueous
Lab Sample ID: Z3F0058-06

Collection Date: 06/07/2023 12:10

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	992		gene copies/L	1		06/14/23 1149	06/16/23 1131	NJM
Dehalococcoides spp. (DHc)	62400	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM

Client Sample ID: IW-2-060723
Sample Matrix: Aqueous
Lab Sample ID: Z3F0058-07

Collection Date: 06/07/2023 16:00

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	<100		gene copies/L	1		06/14/23 1149	06/16/23 1131	NJM
Dehalococcoides spp. (DHc)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM



Microbac Laboratories, Inc., Oak Ridge

CERTIFICATE OF ANALYSIS

Z3F0058

Client Sample ID: MW-1-060723
Sample Matrix: Aqueous
Lab Sample ID: Z3F0058-08

Collection Date: 06/07/2023 16:35

Microbiology	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
QPCR								
Dehalobacter spp. (DHb)	3160		gene copies/L	1		06/14/23 1149	06/16/23 1131	NJM
Dehalococcoides spp. (DHc)	30700	100	gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Trichloroethene Reductase (tceA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (bvcA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM
Vinyl Chloride Reductase (vcrA)	<100		gene copies/L	1		06/08/23 1316	06/16/23 1132	NJM

Definitions

RL: Reporting Limit

Cooler Receipt Log

Cooler ID: Default Cooler Temp: -0.9°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	No	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	No	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	No	Preservation checks meet method requirements?	No
VOA vials have zero headspace, or not recd.?	No		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Maraea Clark
Project Manager
Reported: 06/16/2023 12:45



CHAIN OF CUSTODY

Page 1 of 1



23 F 00 58

AECOM - Glen Allen VA

PM: Maraëa Clark

Project ID: Former Cleanwater
60702147 NYSDEC
 Permit #: _____
 If drinking water, State Reported?: ☐ Yes ☐ No

(1) Sample Matrix codes	OL = Oil	SW = Storm Water
AR = Air	PC = Paint Chip	WP = Wipe
DW = Dr. Water	SB = Swab	WW = Waste Water
FO = Food	SD = Soil/Solid	FB = Field Blank
FT = Filter	SL = Sludge	TB = Trip Blank
GW = Gr. Water		

(2) Sample Type codes
G = Grab
C = Composite

Sample Identification	Sample Date	Sample Time
1W-1-060723	6-7-23	0951
MW-8-060723		1115
MW-9R-060723		1330
OS-1-060723		1532
MW-2-060723		0930
MW-6-060723		1210
1W-2-060723		1600
MW-1-060723		1635

Report To: Walt Howard
Address: AFCOM
40 British american Blvd.
Leathem NY 12110
Phone: 518-951-2200 Fax _____
E-mail: walt.howard@afcom.com

[illegible]

Please Mark Testing Required I

A hand-drawn diagram on graph paper. It features four horizontal lines, each with an arrow pointing to the right. The lines are labeled on the left side as 'gw' and 'G' (appearing twice). On the right side, they are labeled 'x' and '1' (appearing twice). The lines are drawn in a way that suggests they represent a sequence or a process, with the labels indicating different states or components.

Invoice To:	Same
Address:	
P.O. #:	
Quote #:	

FOR LAB CHECK-IN ONLY

Temp Rec'd: -0.9 °C

Prop. Preserved: (Y) N _____

Customer #: _____

Project: Product Analysis

Proj. Mgr: _____

Row (X)	Special instructions / notes:
	Provide NY ASP Cat B Data Package and AECOM Equis EDD
	Stand
	TAT

Samples collected by (please print):	PRIORITY ☐ Same Day ☐ Next Day ☐ 2 Day ☐ 3 Day ☐ 4 Day	All rush priority orders require prior approval.	Relinquished By: <i>Chen Jia</i>	Date: 6/7/23	Time: 1730	Received By:
	Relinquished By:		Date: 6/8/23	Time: 10:00	Received By: <i>[Signature]</i>	
	Relinquished By:		Date:	Time:	Received By:	

Appendix E

Data Usability Summary Reports – VOCs and PFAS Analyses

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Former Cleanerama, RD #60702147
CONTRACTED LAB: Pace Analytical Services - Contest
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): SW846 and EPA Methods
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA HW-24 Rev.4),
USEPA Contract Laboratory Program National Functional
Guidelines for Organic Data Review, 2008, Professional
Judgment
SAMPLE MATRIX: Water
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 23F1273
SAMPLING DATE(S): June 8, 2023

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
MW-4-060823	23F1273-01	X
MW-5-060823	23F1273-02	X
MW-3-060823	23F1273-03	X
MW-5A-060823	23F1273-04	X
MW-5A-060823MS	23F1273-04MS	X
MW-5A-060823MSD	23F1273-04MSD	X
OS-9-060823	23F1273-05	X
OS-12-060823	23F1273-06	X
OS-10-060823	23F1273-07	X
MW-10-060823	23F1273-08	X
DUP-2-060823	23F1273-09	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical / Contest – 23F1273

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW846 Method 8260C.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

II.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The Percent Differences (%Ds) for the standards run on 6/14/23 at 20:32 on instrument GCMSVOA3 exceeded the 20% QC limit for the following compounds:

bromomethane	22.7%
1,2-dibromo-3-chloropropane	-24.7%
Methyl acetate	-26.3%

The results for these compounds for the SDG samples, which were all non-detect, were qualified

as estimated (UJ).

It was noted by the validator that the lab did not analyze a closing calibration standard. Since the samples were all analyzed within the 12-hour analytical clock of the submitted calibration and citing professional judgment, the validator determined that data qualification based on the closing calibration standard absence was not necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Equipment Blanks:

There was no equipment blank submitted in association with this SDG. No data qualification was necessary.

Field Blanks:

There was no field blank submitted in association with this SDG. No data qualification was necessary.

Trip Blank:

Toluene (0.45 ug/L) was reported in the associated trip blank (reported in SDG 23F1274). Since the blank result was less than the RL, all positive toluene results for the samples, which were less than the RL, were qualified as undetected (U) with the result raised to the RL.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed using SDG sample MW-5A-060823. A total of 7 Percent Recoveries (%Rs) were outside the QC limits. Data qualification based on MS / MSD criteria alone was not required. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (MW-5-060823 / DUP-2-060823) was identified for this fraction of the SDG. There were no calculable Relative Percent Differences (RPDs) for this set. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-4-060823

Sampled: 6/8/2023 09:15

Sample ID: 23F1273-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-4-060823

Sampled: 6/8/2023 09:15

Sample ID: 23F1273-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Trichloroethylene	0.36	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.1	70-130	
Toluene-d8	96.3	70-130	
4-Bromofluorobenzene	90.4	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-5-060823

Sampled: 6/8/2023 09:23

Sample ID: 23F1273-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Toluene	1.0 -0.37--U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-5-060823

Sampled: 6/8/2023 09:23

Sample ID: 23F1273-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 0:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.1	70-130	
Toluene-d8	96.0	70-130	
4-Bromofluorobenzene	92.0	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-3-060823

Sampled: 6/8/2023 10:06

Sample ID: 23F1273-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
cis-1,2-Dichloroethylene	1.4	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Toluene	1.0 0.48-U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF

ALH 8/10/23
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-3-060823

Sampled: 6/8/2023 10:06

Sample ID: 23F1273-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:26	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	89.8	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-5A-060823

Sampled: 6/8/2023 10:30

Sample ID: 23F1273-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Bromoform	ND	1.0	0.41	µg/L	1	MS-07A	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Chloroform	0.59	2.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	MS-07A, V-05	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
cis-1,2-Dichloroethylene	0.23	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	MS-07A, V-05	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Tetrachloroethylene	17	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Toluene	1.0 -0.42-U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-5A-060823

Sampled: 6/8/2023 10:30

Sample ID: 23F1273-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Trichloroethylene	0.27	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 1:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	91.2	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-9-060823

Sampled: 6/8/2023 11:15

Sample ID: 23F1273-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
cis-1,2-Dichloroethylene	0.70	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:19	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Tetrachloroethylene	0.85	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Toluene	1.0 0.44--U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-9-060823

Sampled: 6/8/2023 11:15

Sample ID: 23F1273-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:19	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	91.2	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-12-060823

Sampled: 6/8/2023 12:25

Sample ID: 23F1273-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Chloroform	0.53	2.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
cis-1,2-Dichloroethylene	0.19	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Tetrachloroethylene	16	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Toluene	1.0 -0.36 -U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF

ALH 8/10/23
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-12-060823

Sampled: 6/8/2023 12:25

Sample ID: 23F1273-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Trichloroethylene	0.23	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 2:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	99.0	70-130	
4-Bromofluorobenzene	89.6	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-10-060823

Sampled: 6/8/2023 13:05

Sample ID: 23F1273-07

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	6.2	50	2.0	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
cis-1,2-Dichloroethylene	1.3	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Tetrachloroethylene	14	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Toluene	1.0 0.65-U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: OS-10-060823

Sampled: 6/8/2023 13:05

Sample ID: 23F1273-07

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Trichloroethylene	1.6	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.7	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	90.3	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-10-060823

Sampled: 6/8/2023 15:03

Sample ID: 23F1273-08

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Tetrachloroethylene	0.66	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Toluene	1.0 -0.42 U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: MW-10-060823

Sampled: 6/8/2023 15:03

Sample ID: 23F1273-08

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 3:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.3	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	90.8	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: DUP-2-060823

Sampled: 6/8/2023 00:00

Sample ID: 23F1273-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Toluene	1.0 0.60-U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF

ALH 8/10/23
Type text here

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1273

Date Received: 6/9/2023

Field Sample #: DUP-2-060823

Sampled: 6/8/2023 00:00

Sample ID: 23F1273-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.2	70-130	
Toluene-d8	99.6	70-130	
4-Bromofluorobenzene	89.2	70-130	

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Former Cleanerama, RD #60702147
CONTRACTED LAB: Pace Analytical Services - Contest
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): SW846 and EPA Methods
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA HW-24 Rev.4),
USEPA Contract Laboratory Program National Functional
Guidelines for Organic Data Review, **2008**, Professional
Judgment
SAMPLE MATRIX: Water
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 23F1274
SAMPLING DATE(S): June 6-7, 2023

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
TRIP BLANK	23F1274-01	X
OS-2-060623	23F1274-02	X
OS-6-060623	23F1274-03	X
03-S-060623	23F1274-04	X
MW-12-060623	23F1274-05	X
OS-4-060623	23F1274-06	X
DUP1-060623	23F1274-07	X
IW-1-060723	23F1274-08	X
MW-5-060723	23F1274-09	X
IS-1-060723	23F1274-10	X
IS-1-060723MS	23F1274-10MS	X
IS-1-060723MSD	23F1274-10MSD	X
MW-9R-060723	23F1274-11	X
MW-2-060723	23F1274-12	X
MW-1-060723	23F1274-13	X
MW-6-060723	23F1274-14	X
IW-2-060723	23F1274-15	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical / Contest – 23F1274

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW846 Method 8260C.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

II.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

The Percent Difference (%D) for the standards run on 4/30/23 at 16:34 on instrument GCMSVOA5 at -39.0% for Freon 12, which exceeded the 30% QC limit. The non-detect results for this compound in associated samples OS-1-060723 and MW-1-060723 were qualified as estimated (UJ).

Continuing Calibration:

The Percent Differences (%Ds) for the standards run on 6/14/23 at 20:32 on instrument GCMSVOA3 exceeded the 20% QC limit for the following compounds:

bromomethane	22.7%
1,2-dibromo-3-chloropropane	-24.7%

Methyl acetate	-26.3%
----------------	--------

The results for these compounds in associated samples TRIP BLANK, OS-2-060623, OS-6-060523 and OS-3-060623, which were all non-detect, were qualified as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 6/15/23 at 21:46 on instrument GCMSVOA3 exceeded the 20% QC limit for the following compounds:

Chloromethane	191%
2-hexanone	-30.1%
Methyl acetate	-22.9%

The results for these compounds in associated samples MW-12-060623, OS-4-060623, DUP1-060623, IW-1-060723, MW-8-060723, MW-9R-060723, MW-2-060723, MW-6-060723 and IW-2-060723, which were all non-detect, were qualified as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 6/19/23 at 08:49 on instrument GCMSVOA5 exceeded the 20% QC limit for the following compounds:

Acetone	-25.1%
Bromochloromethane	29.7%
1,1-dichloroethane	20.2%
Freon 11	-27.4%

The results for these compounds in associated sample MW-1-060723, which were all non-detect, were qualified as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 6/20/23 at 09:56 on instrument GCMSVOA5 exceeded the 20% QC limit for the following compounds:

Acetone	-29.1%
Bromochloromethane	29.9%
chloromethane	-53.2%
1,1-dichloroethylene	-21.9%
Freon 11	-30.7%

The results for these compounds in associated sample OS-1-060723, which were all non-detect, were qualified as estimated (UJ).

It was noted by the validator that the lab did not analyze a closing calibration standard. Since the samples were all analyzed within the 12-hour analytical clock of the submitted calibration and citing professional judgment, the validator determined that data qualification based on the closing calibration standard absence was not necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Equipment Blanks:

There was no equipment blank submitted in association with this SDG. No data qualification was necessary.

Field Blanks:

There was no field blank submitted in association with this SDG. No data qualification was necessary.

Trip Blank:

Toluene (0.45 ug/L) was reported in the associated trip blank. Since the blank result was less than the RL, all positive toluene results for the samples, which were less than the RL, were qualified as undetected (U) with the result raised to the RL.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Four LCS / LCSD sets were analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) of Freon 11 (66.4%, 67.2%) for set B343729 were below the QC limits. Five additional %Rs and One Relative Percent Difference (RPD) were outside the QC limits. Data qualification based on LCS criteria alone was not required. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed using SDG sample OS-1-060723. The Percent Recoveries (%Rs) for Freon 11 (66.8%) and 8 other compounds and one Relative Percent Difference (RPD) were outside the QC limits. Taken in conjunction with the associated LCS recovery, the %Rs for Freon 11 indicate the potential for a low bias. The non-detect Freon 11 result for the parent sample was qualified as estimated (UJ).

X.) Field Duplicates:

One set of field duplicate samples (OS-3-060623 / DUP1-060623) was identified for this fraction of the SDG. There were no calculable Relative Percent Differences (RPDs) for this set. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: TRIP BLANK

Sampled: 6/6/2023 00:00

Sample ID: 23F1274-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Toluene	0.45	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: TRIP BLANK

Sampled: 6/6/2023 00:00

Sample ID: 23F1274-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/14/23 23:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	6/14/23 23:39
Toluene-d8	101	70-130	6/14/23 23:39
4-Bromofluorobenzene	89.9	70-130	6/14/23 23:39

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-2-060623

Sampled: 6/6/2023 10:40

Sample ID: 23F1274-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Toluene	1.0 --0.48--U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-2-060623

Sampled: 6/6/2023 10:40

Sample ID: 23F1274-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.5	70-130	
Toluene-d8	99.2	70-130	
4-Bromofluorobenzene	92.3	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-6-060623

Sampled: 6/6/2023 12:49

Sample ID: 23F1274-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Toluene	1.0 --0.42-U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-6-060623

Sampled: 6/6/2023 12:49

Sample ID: 23F1274-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 4:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.6	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	89.6	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-3-060623

Sampled: 6/6/2023 14:14

Sample ID: 23F1274-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Bromomethane	ND UJ	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Toluene	1.0 0.40 U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-3-060623

Sampled: 6/6/2023 14:14

Sample ID: 23F1274-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/15/23 5:26	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.5	70-130	
Toluene-d8	98.6	70-130	
4-Bromofluorobenzene	90.3	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-12-060623

Sampled: 6/6/2023 14:49

Sample ID: 23F1274-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Chloromethane	ND UJ	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
2-Hexanone (MBK)	ND UJ	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Toluene	1.0 --- 0.43 U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-12-060623

Sampled: 6/6/2023 14:49

Sample ID: 23F1274-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	98.2	70-130	
4-Bromofluorobenzene	90.4	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1274-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.1	50	2.0	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Chloromethane	ND UJ	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
2-Hexanone (MBK)	ND UJ	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Methyl tert-Butyl Ether (MTBE)	0.51	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Toluene	1.0 -0.36-U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1274-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 0:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	97.8	70-130	
4-Bromofluorobenzene	92.2	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: DUP1-060623

Sampled: 6/6/2023 00:00

Sample ID: 23F1274-07

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Chloromethane	ND UJ	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
2-Hexanone (MBK)	ND UJ	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Toluene	1.0 -0.46-U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: DUP1-060623

Sampled: 6/6/2023 00:00

Sample ID: 23F1274-07

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	98.4	70-130	
4-Bromofluorobenzene	90.7	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: 1W-1-060723

Sampled: 6/7/2023 09:51

Sample ID: 23F1274-08

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Chloromethane	ND UJ	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
cis-1,2-Dichloroethylene	0.76	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
trans-1,2-Dichloroethylene	0.32	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
2-Hexanone (MBK)	ND UJ	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Toluene	1.0 ---0.53---U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: 1W-1-060723

Sampled: 6/7/2023 09:51

Sample ID: 23F1274-08

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Trichloroethylene	0.43	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 1:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	87.2	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1274-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Chloromethane	ND UJ	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
cis-1,2-Dichloroethylene	8.0	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
trans-1,2-Dichloroethylene	1.3	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
2-Hexanone (MBK)	ND UJ	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Tetrachloroethylene	5.8	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Toluene	1.0 -0.45-U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1274-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Trichloroethylene	1.8	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Vinyl Chloride	0.97	2.0	0.24	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:13	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	89.9	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-1-060723

Sampled: 6/7/2023 15:32

Sample ID: 23F1274-10

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND UJ	100	4.0	µg/L	2	MS-07A, V-05	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Benzene	ND	2.0	0.37	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Bromochloromethane	ND UJ	2.0	0.57	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Bromodichloromethane	ND	1.0	0.32	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Bromoform	ND	2.0	0.82	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Bromomethane	ND	4.0	2.6	µg/L	2	MS-07A	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
2-Butanone (MEK)	ND	40	3.4	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Carbon Disulfide	ND	10	3.1	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Chlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Chlorodibromomethane	ND	1.0	0.40	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Chloroethane	ND	4.0	0.68	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Chloroform	ND	4.0	0.28	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Chloromethane	ND UJ	4.0	1.0	µg/L	2	MS-07A, R-06, V-05, V-34	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Cyclohexane	ND	10	3.5	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	1.7	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2-Dibromoethane (EDB)	ND	1.0	0.32	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,3-Dichlorobenzene	ND	2.0	0.27	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.32	µg/L	2	V-34	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1-Dichloroethane	ND	2.0	0.27	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2-Dichloroethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1-Dichloroethylene	ND UJ	2.0	0.28	µg/L	2	V-05	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
cis-1,2-Dichloroethylene	2.0	2.0	0.28	µg/L	2	J	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
trans-1,2-Dichloroethylene	1.4	2.0	0.34	µg/L	2	J	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2-Dichloropropane	ND	2.0	0.39	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
cis-1,3-Dichloropropene	ND	1.0	0.33	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
trans-1,3-Dichloropropene	ND	1.0	0.28	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,4-Dioxane	ND	100	36	µg/L	2	MS-07A	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Ethylbenzene	ND	2.0	0.44	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
2-Hexanone (MBK)	ND	20	2.4	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.30	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Methyl Acetate	ND	2.0	1.2	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Methyl Cyclohexane	ND	2.0	0.31	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Methylene Chloride	ND	10	0.35	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Styrene	ND	2.0	0.30	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	0.27	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Tetrachloroethylene	110	2.0	0.34	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,2,3-Trichlorobenzene	ND	10	0.68	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: OS-1-060723

Sampled: 6/7/2023 15:32

Sample ID: 23F1274-10

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,4-Trichlorobenzene	ND	2.0	0.60	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1,1-Trichloroethane	ND	2.0	0.30	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1,2-Trichloroethane	ND	2.0	0.38	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Trichloroethylene	36	2.0	0.35	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Trichlorofluoromethane (Freon 11)	ND UJ	4.0	0.31	µg/L	2	L-04, V-05	SW-846 8260D	6/20/23	6/20/23 18:41	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.42	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Vinyl Chloride	ND	4.0	0.47	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH
Xylenes (total)	ND	2.0	2.0	µg/L	2		SW-846 8260D	6/20/23	6/20/23 18:41	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	92.7	70-130	

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-9R-060723

Sampled: 6/7/2023 13:30

Sample ID: 23F1274-11

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Chloroform	0.31	2.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Chloromethane	ND UJ	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
cis-1,2-Dichloroethylene	0.27	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
2-Hexanone (MBK)	ND UJ	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Tetrachloroethylene	20	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Toluene	1.0 0.44-U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-9R-060723

Sampled: 6/7/2023 13:30

Sample ID: 23F1274-11

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Trichloroethylene	0.43	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 2:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	98.2	70-130	
4-Bromofluorobenzene	87.9	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-2-060723

Sampled: 6/7/2023 09:30

Sample ID: 23F1274-12

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Chloromethane	ND UJ	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
cis-1,2-Dichloroethylene	4.7	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
2-Hexanone (MBK)	ND UJ	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Tetrachloroethylene	5.8	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Toluene	1.0 0.45--U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-2-060723

Sampled: 6/7/2023 09:30

Sample ID: 23F1274-12

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Trichloroethylene	1.8	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Vinyl Chloride	0.84	2.0	0.24	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:07	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	88.9	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-1-060723

Sampled: 6/7/2023 16:35

Sample ID: 23F1274-13

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND UJ	50	2.0	µg/L	1	V-05	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Bromochloromethane	ND UJ	1.0	0.28	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	R-05, V-34	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1	V-34	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,1-Dichloroethane	ND UJ	1.0	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
cis-1,2-Dichloroethylene	2.8	1.0	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Methylene Chloride	0.25	5.0	0.18	µg/L	1	J	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Tetrachloroethylene	88	1.0	0.17	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Toluene	1.0 -0.54-U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-1-060723

Sampled: 6/7/2023 16:35

Sample ID: 23F1274-13

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Trichloroethylene	7.9	1.0	0.17	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Trichlorofluoromethane (Freon 11)	ND UJ	2.0	0.15	µg/L	1	V-05	SW-846 8260D	6/19/23	6/19/23 20:46	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/19/23	6/19/23 20:46	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.6	70-130	
Toluene-d8	99.6	70-130	
4-Bromofluorobenzene	96.2	70-130	

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-6-060723

Sampled: 6/7/2023 12:10

Sample ID: 23F1274-14

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Chloroform	0.40	2.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Chloromethane	ND UJ	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
cis-1,2-Dichloroethylene	0.27	1.0	0.14	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
2-Hexanone (MBK)	ND UJ	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Tetrachloroethylene	12	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Toluene	1.0 0.39 U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: MW-6-060723

Sampled: 6/7/2023 12:10

Sample ID: 23F1274-14

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Trichloroethylene	0.29	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 3:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	98.6	70-130	
4-Bromofluorobenzene	89.1	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: 1W-2-060723

Sampled: 6/7/2023 16:00

Sample ID: 23F1274-15

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	5.3	50	2.0	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Chloromethane	ND UJ	2.0	0.50	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
cis-1,2-Dichloroethylene	5.3	1.0	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
trans-1,2-Dichloroethylene	0.30	1.0	0.17	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
2-Hexanone (MBK)	ND UJ	10	1.2	µg/L	1	L-04, V-05	SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Methyl Acetate	ND UJ	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Tetrachloroethylene	12	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Toluene	1.0 -0.52-U	1.0	0.22	µg/L	1	J	SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF

ALH 8/10/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 23F1274

Date Received: 6/9/2023

Field Sample #: 1W-2-060723

Sampled: 6/7/2023 16:00

Sample ID: 23F1274-15

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Trichloroethylene	12	1.0	0.17	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/13/23	6/16/23 4:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	98.5	70-130	
4-Bromofluorobenzene	88.5	70-130	

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

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DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: 60702147
CONTRACTED LAB: ConTest, East Longmeadow, MA 01028
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method 537 Modified; EPA Method 522 MOD
VALIDATION GUIDELINES: USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, **2008**; NYDEC Guidelines for Sampling and Analysis of PFAS, January 2020

SAMPLE MATRIX: Groundwater
TYPES OF ANALYSES: Per and Polyfluoroalkyl Substances PFAS)
DATA REVIEWER(S): Timothy H. Morris
SDG NUMBER: 23F1300
SAMPLING DATE(S): June 6, 2023

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>PFAS</u>
OS-3-060623	23F1300-01	X
OS-4-060623	23F1300-02	X
DUP-1-060623	23F1300-03	X
MW-8-060723	23F1300-04	X
OS-1-060723	23F1300-05	X
FB-1-060723	23F1300-06	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY REPORT

ConTest, East Longmeadow, MA, 23F1300

PERFLUROALKYL SUBSTANCES (PFAS)

SUMMARY

I.) General:

The analyses for Perfluoroalkyl Substances were performed by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS) per EPA Method 537.1 Modified.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There was one minor problem for this fraction of the SDG. Several analytes in sample OS-4-060623 were qualified as estimated (J) as they were above the 30% QC limit for duplicate RPD.

MINOR ISSUES

I.) Laboratory Data Package:

The required documentation was present and complete. The laboratory presented a complete and accurate case narrative in the data package. The data package contains results for all samples and method types listed on the COC.

II.) Sample Receipt, Preservation, and Holding Times:

The samples were received intact with proper COC documentation and signatures. The samples were received within the method temperature requirements. The samples were extracted and analyzed within the method hold times.

III.) Initial Calibration (ICAL) and Initial Calibration Verification (ICV):

All Initial Calibration criteria were met. No data qualification was necessary.

IV.) Continuing Calibration (CCV):

All Continuing Calibration Verification criteria were met. No data qualification was necessary.

V.) Blanks:

All Blank criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS/MSD):

MS/MSD analysis was performed using batch QC samples. No data qualification was necessary.

VII.) Laboratory Control Sample (LCS):

All LCS criteria were met. No data qualification was necessary.

VIII.) Field Duplicates (FD):

One FD sample was identified for this fraction of the SDG. No data qualification was necessary.

<u>Parent Sample</u>	<u>Duplicate Sample</u>	<u>Analyte</u>	<u>RPD</u>	<u>> 2X RL</u>
OS-4-060623	DUP-1-060623	PFBA	91.7	YES
		PFBeA	2.7	NO
		PFHxA	35.6	YES
		PFHpA	23.3	NO
		PFOA	146.5	NO
		PFBS	82.4	YES

As the QC limit for water samples is 30 percent for RPD, those analytes in the parent sample above 30% were qualified as estimated (J).

IX.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

X.) Surrogates

All Surrogate criteria were met. No data qualification was necessary.

XI.) Ion Transitions:

All Ion Transition criteria were met. No data qualification was necessary.

XII.) Reporting limits (RLs):

All SDG sample Reporting Limits were acceptable. No data qualification was necessary.

XIII.) Instrument Performance criteria:

All Instrument Performance criteria were met. No data qualification was necessary.

XIV.) Sample and QC Calculation Verification:

All Sample and QC Calculation Verification criteria were met. No discrepancies were noted.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifier

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-3-060623

Sampled: 6/6/2023 14:14

Sample ID: 23F1300-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	4.8	3.8	1.4	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoropentanoic acid (PFPeA)	3.5	1.9	0.33	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorohexanoic acid (PFHxA)	3.0	0.94	0.20	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoroheptanoic acid (PFHpA)	1.8	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorooctanoic acid (PFOA)	1.5	0.94	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorononanoic acid (PFNA)	ND	0.94	0.18	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorodecanoic acid (PFDA)	ND	0.94	0.17	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.94	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.94	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.94	0.23	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorobutanesulfonic acid (PFBS)	2.6	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.94	0.22	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.72	0.94	0.19	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.94	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.94	0.28	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.94	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.65	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.93	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.94	0.39	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.94	0.41	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.94	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.4	2.5	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.4	2.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.98	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.65	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.80	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.8	0.91	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.4	1.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	47	9.6	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-3-060623

Sampled: 6/6/2023 14:14

Sample ID: 23F1300-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.81	ng/L	1		Draft Method 1633	6/21/23	6/26/23 12:56	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	73.1		10-130				6/26/23 12:56			
13C5-PFPeA	79.1		35-150				6/26/23 12:56			
13C5-PFHxA	79.4		55-150				6/26/23 12:56			
13C4-PFHpA	76.7		55-150				6/26/23 12:56			
13C8-PFOA	78.9		60-140				6/26/23 12:56			
13C9-PFNA	77.4		55-140				6/26/23 12:56			
13C6-PFDA	78.7		50-140				6/26/23 12:56			
13C7-PFUnA	74.3		30-140				6/26/23 12:56			
13C2-PFDoA	70.4		10-150				6/26/23 12:56			
13C2-PFTeDA	70.6		10-130				6/26/23 12:56			
13C3-PFBS	79.2		55-150				6/26/23 12:56			
13C3-PFHxS	77.0		55-150				6/26/23 12:56			
13C8-PFOS	75.0		45-140				6/26/23 12:56			
13C2-4:2FTS	70.3		60-200				6/26/23 12:56			
13C2-6:2FTS	71.4		60-200				6/26/23 12:56			
13C2-8:2FTS	64.9		50-200				6/26/23 12:56			
13C8-PFOSA	70.9		30-130				6/26/23 12:56			
D3-NMeFOSA	65.4		15-130				6/26/23 12:56			
D5-NEtFOSA	67.3		10-130				6/26/23 12:56			
D3-NMeFOSAA	69.9		45-200				6/26/23 12:56			
D5-NEtFOSAA	71.7		10-200				6/26/23 12:56			
D7-NMeFOSE	65.3		10-150				6/26/23 12:56			
D9-NEtFOSE	65.0		10-150				6/26/23 12:56			
13C3-HFPO-DA	83.4		25-160				6/26/23 12:56			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1300-02

THM 8-5-23

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	3.7	1.4	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoropentanoic acid (PFPeA)	3.8	1.9	0.32	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorohexanoic acid (PFHxA)	4.3	0.93	0.20	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoroheptanoic acid (PFHpA)	2.4	0.93	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorooctanoic acid (PFOA)	11	0.93	0.21	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorononanoic acid (PFNA)	ND	0.93	0.18	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorodecanoic acid (PFDA)	ND	0.93	0.17	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.93	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	0.23	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorobutanesulfonic acid (PFBS)	7.2	0.93	0.24	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.71	0.93	0.22	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.7	0.93	0.19	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorooctanesulfonic acid (PFOS)	7.2	0.93	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.93	0.27	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.65	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	0.92	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.93	0.39	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.93	0.41	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.93	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.3	2.5	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	2.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.97	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.64	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.80	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.7	0.90	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.3	1.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	47	9.5	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.2	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-4-060623

Sampled: 6/6/2023 16:00

Sample ID: 23F1300-02

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.81	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:11	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	63.5		10-130				6/26/23 13:11			
13C5-PFPeA	75.8		35-150				6/26/23 13:11			
13C5-PFHxA	84.1		55-150				6/26/23 13:11			
13C4-PFHpA	81.1		55-150				6/26/23 13:11			
13C8-PFOA	84.2		60-140				6/26/23 13:11			
13C9-PFNA	85.2		55-140				6/26/23 13:11			
13C6-PFDA	82.9		50-140				6/26/23 13:11			
13C7-PFUnA	79.2		30-140				6/26/23 13:11			
13C2-PFDoA	71.8		10-150				6/26/23 13:11			
13C2-PFTeDA	71.0		10-130				6/26/23 13:11			
13C3-PFBS	82.4		55-150				6/26/23 13:11			
13C3-PFHxS	82.9		55-150				6/26/23 13:11			
13C8-PFOS	81.7		45-140				6/26/23 13:11			
13C2-4:2FTS	123		60-200				6/26/23 13:11			
13C2-6:2FTS	103		60-200				6/26/23 13:11			
13C2-8:2FTS	85.3		50-200				6/26/23 13:11			
13C8-PFOSA	68.0		30-130				6/26/23 13:11			
D3-NMeFOSA	62.1		15-130				6/26/23 13:11			
D5-NEtFOSA	61.7		10-130				6/26/23 13:11			
D3-NMeFOSAA	66.7		45-200				6/26/23 13:11			
D5-NEtFOSAA	69.6		10-200				6/26/23 13:11			
D7-NMeFOSE	60.8		10-150				6/26/23 13:11			
D9-NEtFOSE	57.7		10-150				6/26/23 13:11			
13C3-HFPO-DA	85.3		25-160				6/26/23 13:11			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: DUP-1-060623

Sampled: 6/6/2023 00:00

Sample ID: 23F1300-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.2	3.8	1.4	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoropentanoic acid (PFPeA)	3.7	1.9	0.33	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorohexanoic acid (PFHxA)	3.0	0.95	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoroheptanoic acid (PFHpA)	1.9	0.95	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorooctanoic acid (PFOA)	1.7	0.95	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorononanoic acid (PFNA)	ND	0.95	0.18	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorodecanoic acid (PFDA)	ND	0.95	0.18	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.95	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.95	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.95	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.95	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorobutanesulfonic acid (PFBS)	3.0	0.95	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.95	0.23	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.73	0.95	0.20	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorooctanesulfonic acid (PFOS)	0.45	0.95	0.30	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.95	0.28	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.95	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.95	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.66	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.94	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.95	0.40	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.95	0.42	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.95	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.5	2.5	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.5	2.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.99	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.65	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.81	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.8	0.92	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.5	1.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	48	9.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	8.4	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: DUP-1-060623

Sampled: 6/6/2023 00:00

Sample ID: 23F1300-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.82	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:27	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	77.2		10-130						6/26/23 13:27	
13C5-PFPeA	85.2		35-150						6/26/23 13:27	
13C5-PFHxA	86.6		55-150						6/26/23 13:27	
13C4-PFHpA	83.8		55-150						6/26/23 13:27	
13C8-PFOA	86.2		60-140						6/26/23 13:27	
13C9-PFNA	85.1		55-140						6/26/23 13:27	
13C6-PFDA	84.4		50-140						6/26/23 13:27	
13C7-PFUnA	81.9		30-140						6/26/23 13:27	
13C2-PFDoA	77.3		10-150						6/26/23 13:27	
13C2-PFTeDA	76.9		10-130						6/26/23 13:27	
13C3-PFBS	88.6		55-150						6/26/23 13:27	
13C3-PFHxS	88.0		55-150						6/26/23 13:27	
13C8-PFOS	79.9		45-140						6/26/23 13:27	
13C2-4:2FTS	79.3		60-200						6/26/23 13:27	
13C2-6:2FTS	81.8		60-200						6/26/23 13:27	
13C2-8:2FTS	75.4		50-200						6/26/23 13:27	
13C8-PFOSA	75.3		30-130						6/26/23 13:27	
D3-NMeFOSA	67.5		15-130						6/26/23 13:27	
D5-NEtFOSA	70.3		10-130						6/26/23 13:27	
D3-NMeFOSAA	76.7		45-200						6/26/23 13:27	
D5-NEtFOSAA	75.9		10-200						6/26/23 13:27	
D7-NMeFOSE	71.9		10-150						6/26/23 13:27	
D9-NEtFOSE	70.0		10-150						6/26/23 13:27	
13C3-HFPO-DA	90.9		25-160						6/26/23 13:27	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1300-04

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.1	3.9	1.4	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoropentanoic acid (PFPeA)	0.94	1.9	0.34	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorohexanoic acid (PFHxA)	0.63	0.97	0.21	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoroheptanoic acid (PFHpA)	0.38	0.97	0.25	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorooctanoic acid (PFOA)	1.3	0.97	0.22	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorononanoic acid (PFNA)	ND	0.97	0.19	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorodecanoic acid (PFDA)	ND	0.97	0.18	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.97	0.27	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.97	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.97	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.97	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorobutanesulfonic acid (PFBS)	0.62	0.97	0.25	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.97	0.23	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.32	0.97	0.20	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.97	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorooctanesulfonic acid (PFOS)	1.1	0.97	0.31	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.97	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.97	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.97	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	0.68	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	0.96	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	1.1	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.97	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.97	0.40	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.97	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.97	0.43	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.97	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.7	2.6	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.7	2.4	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	1.0	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	0.67	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.9	0.83	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.9	0.94	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.7	1.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	9.9	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	8.6	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.48	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.48	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: MW-8-060723

Sampled: 6/7/2023 11:15

Sample ID: 23F1300-04

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.39	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.84	ng/L	1		Draft Method 1633	6/21/23	6/26/23 13:43	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	75.9		10-130				6/26/23 13:43			
13C5-PFPeA	89.5		35-150				6/26/23 13:43			
13C5-PFHxA	89.1		55-150				6/26/23 13:43			
13C4-PFHpA	85.7		55-150				6/26/23 13:43			
13C8-PFOA	87.7		60-140				6/26/23 13:43			
13C9-PFNA	89.3		55-140				6/26/23 13:43			
13C6-PFDA	85.7		50-140				6/26/23 13:43			
13C7-PFUnA	80.7		30-140				6/26/23 13:43			
13C2-PFDoA	73.8		10-150				6/26/23 13:43			
13C2-PFTeDA	75.2		10-130				6/26/23 13:43			
13C3-PFBS	90.8		55-150				6/26/23 13:43			
13C3-PFHxS	89.0		55-150				6/26/23 13:43			
13C8-PFOS	83.8		45-140				6/26/23 13:43			
13C2-4:2FTS	75.6		60-200				6/26/23 13:43			
13C2-6:2FTS	77.0		60-200				6/26/23 13:43			
13C2-8:2FTS	72.4		50-200				6/26/23 13:43			
13C8-PFOSA	78.3		30-130				6/26/23 13:43			
D3-NMeFOSA	68.6		15-130				6/26/23 13:43			
D5-NEtFOSA	71.8		10-130				6/26/23 13:43			
D3-NMeFOSAA	76.6		45-200				6/26/23 13:43			
D5-NEtFOSAA	74.2		10-200				6/26/23 13:43			
D7-NMeFOSE	68.5		10-150				6/26/23 13:43			
D9-NEtFOSE	65.7		10-150				6/26/23 13:43			
13C3-HFPO-DA	92.3		25-160				6/26/23 13:43			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-1-060723

Sampled: 6/7/2023 15:32

Sample ID: 23F1300-05

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	4.0	3.8	1.4	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoropentanoic acid (PFPeA)	3.7	1.9	0.33	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorohexanoic acid (PFHxA)	2.9	0.94	0.20	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoroheptanoic acid (PFHpA)	3.6	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorooctanoic acid (PFOA)	4.9	0.94	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorononanoic acid (PFNA)	0.24	0.94	0.18	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorodecanoic acid (PFDA)	ND	0.94	0.17	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.94	0.26	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.94	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorobutanesulfonic acid (PFBS)	1.0	0.94	0.24	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.24	0.94	0.22	ng/L	1	J	Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.1	0.94	0.19	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorooctanesulfonic acid (PFOS)	3.9	0.94	0.30	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.94	0.28	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.94	0.25	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.66	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.93	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.94	0.39	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.94	0.29	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.94	0.41	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.94	0.21	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.4	2.5	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.4	2.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.98	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.65	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.80	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.8	0.91	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.4	1.7	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	47	9.6	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.3	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location:

Sample Description:

Work Order: 23F1300

Date Received: 6/9/2023

Field Sample #: OS-1-060723

Sampled: 6/7/2023 15:32

Sample ID: 23F1300-05

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.81	ng/L	1		Draft Method 1633	6/21/23	6/26/23 14:14	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	76.7		10-130				6/26/23 14:14			
13C5-PFPeA	87.4		35-150				6/26/23 14:14			
13C5-PFHxA	88.7		55-150				6/26/23 14:14			
13C4-PFHpA	86.0		55-150				6/26/23 14:14			
13C8-PFOA	88.4		60-140				6/26/23 14:14			
13C9-PFNA	88.4		55-140				6/26/23 14:14			
13C6-PFDA	83.8		50-140				6/26/23 14:14			
13C7-PFUnA	80.6		30-140				6/26/23 14:14			
13C2-PFDoA	75.6		10-150				6/26/23 14:14			
13C2-PFTeDA	77.7		10-130				6/26/23 14:14			
13C3-PFBS	90.8		55-150				6/26/23 14:14			
13C3-PFHxS	88.0		55-150				6/26/23 14:14			
13C8-PFOS	84.6		45-140				6/26/23 14:14			
13C2-4:2FTS	89.7		60-200				6/26/23 14:14			
13C2-6:2FTS	84.7		60-200				6/26/23 14:14			
13C2-8:2FTS	74.9		50-200				6/26/23 14:14			
13C8-PFOSA	79.4		30-130				6/26/23 14:14			
D3-NMeFOSA	70.2		15-130				6/26/23 14:14			
D5-NEtFOSA	73.3		10-130				6/26/23 14:14			
D3-NMeFOSAA	78.1		45-200				6/26/23 14:14			
D5-NEtFOSAA	75.5		10-200				6/26/23 14:14			
D7-NMeFOSE	71.7		10-150				6/26/23 14:14			
D9-NEtFOSE	70.3		10-150				6/26/23 14:14			
13C3-HFPO-DA	88.4		25-160				6/26/23 14:14			