Stephanie Fitzgerald
New York State Department of Environmental Conservation
Division of Environmental Remediation
615 Erie Blvd. W.
Syracuse NY 13204-2400

Arcadis of New York, Inc.
855 Route 146
Suite 210
Clifton Park
New York 12065
Tel 518 250 7300
Fax 518 371 2757
www.arcadis.com

Subject:
2022 Q4 Monitoring Report
Brewerton Jack's Cleaners
NYSDEC Site No. 734112
Contract No. D009804-26

Date:
March 17, 2013

Contact:
Stefan Bagnato

Phone:
518-250-7300

Email:
Stefan.Bagnato@arcadis.com

Our ref:
30135043

Dear Ms. Fitzgerald:

Arcadis of New York, Inc. (Arcadis) has prepared this letter report to present the results of the November/December 2022 groundwater monitoring conducted at the above-referenced site with respect to the effectiveness of the in-situ enhanced bioremediation remedy previously implemented. This report presents the sampling methodology, sampling results, and evaluation of these results.

Background

The Brewerton Jack's Cleaners Site consists of a retail dry cleaning facility located at 9628 Brewerton Road, Brewerton, New York. The Site was developed with the current structure in approximately 1945. The Site was historically utilized as a gasoline station along with the adjacent property to the south in the 1950s. The Site has been utilized as a dry cleaning facility since approximately 1972. The current layout of the facility and surrounding area are shown on **Figure 1**. A petroleum spill investigation and cleanup of the adjacent property to the south (9626 Brewerton Road) in 2006 and 2007 identified tetrachloroethene (PCE) impacts in soil and groundwater. Based on subsequent investigation, the septic system behind the Jack's Dry Cleaners building was thought to be the source of chlorinated volatile organic compound (CVOC) contamination. As part of an interim remedial measure (IRM) conducted in 2009 during the Remedial Investigation (RI), Jack's Dry Cleaners was connected to the municipal sewer, the septic system was removed, and approximately 172 tons of impacted soil were removed. Subsequent investigations delineated a CVOC groundwater plume extending from the dry cleaner building approximately 500 feet to the southeast.

A Feasibility Study and a Pre-Remedial Design Investigation were completed in 2012 to evaluate natural attenuation processes and potential including

hydrogeologic, geochemical, and microbiological characteristics. Enhanced bioremediation was selected as the remedy for the Site in the 2015 Record of Decision. An injection pilot test was conducted in 2016 to assess flow rates and radius of influence and to develop a full-scale injection plan. The full-scale injection activities took place over two events in 2017 and 2018, utilizing emulsified vegetable oil, deoxygenated water, pH buffer, and *Dehalococcoides* bioaugmentation culture. Two rounds of post-injection groundwater monitoring were conducted in July and December 2019 which showed significant reductions in CVOC concentrations. Current monitoring efforts will evaluate the effectiveness of the enhanced bioremediation remedy.

Analytical Results

Groundwater Sampling

Between November 28 and December 14, 2022, Arcadis conducted groundwater sampling at all 31 planned monitoring well locations. Locations are shown on **Figure 2** and sampling logs are provided in **Appendix A**. Prior to sampling, water levels and field parameters (pH, temperature, oxidation-reduction potential [ORP], specific conductance, dissolved oxygen [DO] and turbidity) were measured at each groundwater monitoring well location and documented on the field sampling logs. Groundwater elevations are summarized in **Table 1**. As shown on **Figures 2** and **3**, the overburden groundwater potentiometric surface map indicates that the groundwater flow direction is generally to the east-southeast, consistent with other historical events.

Groundwater was purged from the wells until field parameters stabilized. Groundwater samples were collected from the monitoring wells listed in **Table 2.** Monitoring well MW-10 required significant silt removal and redevelopment prior to sampling. Duplicate samples, DUP-112922-01, DUP-112922-02, and DUP120122, were collected at IW-25, IW-17, and MW-12, respectively. An equipment blank, EQ-120122, was collected to evaluate the impact of sampling equipment on analytical results. Sample collection and handling was conducted in accordance with Arcadis' Generic Sampling and Analysis Plan (SAP) for NYSDEC Standby Engineering Contract D009804. Based on historical sampling analytical data and in consultation with the NYSDEC, purge water was discharged to the ground surface in the vicinity of the well from which it came in accordance with Arcadis' Generic SAP.

Groundwater samples were submitted to Pace Analytical of East Longmeadow, Massachusetts under direct callout to the New York State Department of Environmental Conservation (NYSDEC) and analyzed for Target Compound List (TCL) VOCs by United States Environmental Protection Agency Method 8260C and dissolved gases (methane, ethane, ethene) by Method RSK-175. Samples from wells MW-1R, MW-7, and MW-12 were also analyzed for 40 compound target analyte list Per-and Polyfluoroalkyl Substances (PFAS) by Draft USEPA Method 1633.

A summary of current and historical analytical data are provided in **Table 3**. CVOC concentrations in samples are depicted on **Figures 4** and **5**. These figures show detected CVOCs at each location and highlight those contaminants and their concentrations which exceed the corresponding NYSDEC Class GA Groundwater Standards. Analytical laboratory reporting forms are provided in **Appendix B**. Data validation was conducted by Environmental Data Services, Inc. in accordance with NYSDEC Analytical Services Protocols to ensure that the quality of the data is sufficient to document existing conditions. A Data Usability Summary Report (DUSR) was generated for each analytical report package and are provided in **Appendix C**. The 2022 Q4 data were usable as reported with minor qualifications. The specific details of the data validation can be found in **Appendix C**.

As shown in **Table 3** and on **Figures 4** and **5**, acetone, cis-1,2-dichlorothene (cDCE), trichloroethene (TCE), vinyl chloride (VC), PCE, and trans-1,2-dichloroethene (tDCE) were the most frequently detected compounds in groundwater samples collected during the 2022 Q4 event. Acetone is known to be a

common laboratory contaminant and is not considered a contaminant of concern for this site. CVOCs were detected at concentrations greater than the corresponding NYSDEC Class GA Standards at the following locations:

Location	Wells	CVOCs exceeding NYSDEC Class GA Standards
Source Area	MW-02	PCE – 15 micrograms per liter (µg/L)
	MW-1R	PCE – 200 µg/L, TCE – 71 µg/L, cDCE – 150 µg/L, VC – 32 µg/L
Immediately Down-gradient of Source Area	MW-09	PCE – 460 µg/L, TCE – 370 µg/L, cDCE – 840 µg/L, tDCE – 9.1 µg/L, VC – 110 µg/L
	MW-07	cDCE – 5.9 µg/L, VC – 16 µg/L
	IW-25	TCE – 31 µg/L, cDCE – 1,400 µg/L, tDCE – 13 µg/L, VC – 450 µg/L
	MW-13	PCE – 1,000 µg/L, TCE – 490 µg/L, cDCE – 810 µg/L, tDCE – 11 µg/L, VC – 76 µg/L
Down-gradient Plume Area	MW-15BR	cDCE – 43 µg/L, VC – 16 µg/L
	IW-17	cDCE – 11 µg/L, VC – 11 µg/L
	IW-19	cDCE – 27 µg/L, VC – 16 µg/L

Reducing conditions at the site are inferred from generally negative oxidation-reduction (Redox) values during purging of all site wells except MW-2, MW-8, MW-15, MW-16, MW-16BR, MW-17, generally low dissolved oxygen, dissolved gas distributions that are dominantly methane, and the presence of reductive dechlorination daughter products.

As shown in **Table 3,** the groundwater sample collected from MW-1R contained both Perfluorooctane sulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) at concentrations greater than the NYSDEC maximum contaminant level (MCL) of 10 nanograms per liter (ng/L) for PFOS and PFOA, individually. The groundwater sample collected from MW-7 contained PFOS at a concentration greater than the MCL (10 ng/L) and contained PFOA at a concentration less than the MCL (10 ng/L). MW-12 did not contain PFOA at a concentration greater than the MCL (10 ng/L) and PFOS was not detected in the groundwater sample collected from MW-12. PFAS were not detected in the equipment blank collected during the sampling event.

Groundwater Contaminant Concentrations and Remedy Effectiveness

CVOCs

Relative to the 2019 sampling conducted immediately following the enhanced bioremediation injections, the sampling results from the 4th Quarter of 2022 show the following changes:

- Increased concentrations of PCE and/or TCE are noted at MW-1R, MW-9, and MW-13;
- Increased concentrations of breakdown products are noted at IW-17, IW-19, IW-25, MW-13, and MW-15BR;

- Decreased concentrations of CVOC compounds are noted at MW-2, MW-7, MW-14BR, and IW-3; and
- Similar concentrations generally below corresponding NYSDEC Class GA Standards at all other monitoring locations.

Some rebound of PCE and/or TCE is noted within the area immediately down-gradient of the former source area. Nonetheless, CVOC breakdown products and overall reducing conditions appear to be present, suggesting that degradation is ongoing following the 2017/2018 plume treatment. The degree and significance of rebound will be further evaluated following subsequent sampling events.

PFAS

Relative to the July 2019 emerging contaminant sampling, the sampling results from the 4th Quarter of 2022 show the following changes:

- Increased concentrations of PFOS and PFOA are noted at MW-1R and MW-7; and
- Decreased concentrations of PFOS and PFOA are noted at MW-12.

At this time, PFAS detections are not known to be attributable to the site. PFAS presence will be further evaluated following additional subsequent sampling events.

Conclusions and Recommendations

While rebound of PCE and TCE was documented within and immediately down-gradient of the former source area, breakdown products cis-1,2-DCE and VC were also elevated in samples from this area, indicating that degradation is likely ongoing at the site. Negative redox and low dissolved oxygen values measured during well purging in this area, along with dissolved gas concentrations dominated by methane further suggest that site conditions remain favorable for continued reductive dechlorination of residual CVOCs.

Given that site conditions are favorable for ongoing degradation of residual contamination, these conditions do not need to be regularly verified using dissolved gas analysis. As summarized on **Table 4**, it is recommended that the 2023 Q1 sampling event include only VOCs sampled using passive diffusion bags. It is recommended that sampling for PFAS from MW-1R, MW-7, and MW-12 using low-flow sampling methods be conducted once per year, with the next event being 2023 Q4.

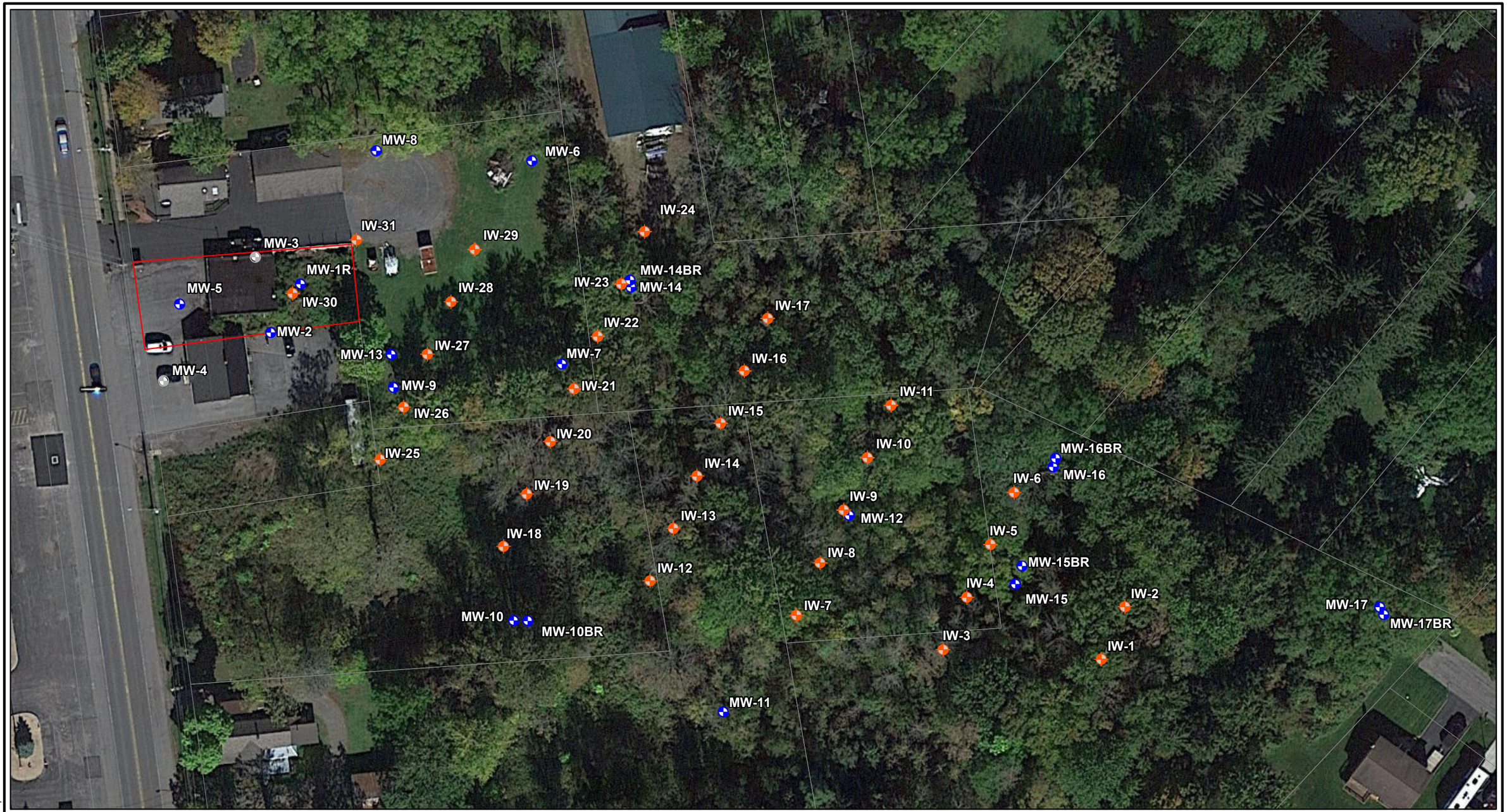
If you have any questions concerning this report, please call me at (518) 250-7334.

Sincerely,

Arcadis of New York, Inc.

Stefan Bagnato, P.G. NY#000217
Principal Geologist

Enclosures:
Figure 1 – Site Map
Figure 2 – Overburden Potentiometric Contour Map
Figure 3 – Bedrock Potentiometric Contour Map
Figure 4 – Summary of CVOCs in Overburden Groundwater
Figure 5 – Summary of CVOCs in Bedrock Groundwater
Table 1 – Summary of Groundwater Elevations
Table 2 – Summary of Sampled Wells
Table 3 – Summary of Groundwater Sampling Results
Table 4 – Proposed 2023 Q1 Sampling
Appendix A – Field Sampling Logs
Appendix B – Laboratory Analytical Reports
Appendix C – Data Usability Summary Report



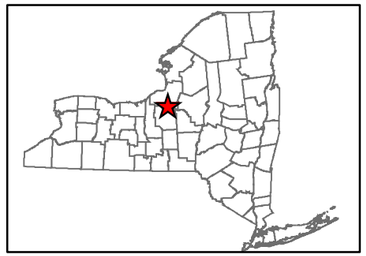
0 200 400 Feet

GRAPHIC SCALE

Legend

- Monitoring Well
- Injection Well
- Former Monitoring Well
- Site Parcel Boundary
- Tax Parcel

NOTES:
Aerial Background: Google Satellite



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

SITE MAP

ARCADIS

FIGURE
1

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux
Project 30135043.02
T:_ENV\NY\SDEC\Brewerton_Jacks\mxd\Site_Map.mxd 12/13/2022 4:25:13 PM

MW-8
399.75

MW-6

399.5

399

398.5

398

397.5

IW-31
399.56

IW-24
397.26

MW-3

IW-29
398.04

MW-1R
397.72

MW-14BR

MW-5
399.4

IW-30
399.33

IW-28
398.86

IW-23
397.11

MW-14
396.83

IW-17
396.89

MW-2
399.59

MW-13

MW-7
397.21

IW-22
397.41

IW-16
396.87

MW-4

IW-27
397.93

MW-9
398.07

IW-21
397.48

IW-11
396.99

IW-26
397.83

IW-15
397.02

IW-20
397.19

IW-10
396.93

MW-16BR

IW-6
397.62

IW-25
397.62

IW-14
396.86

MW-16
396.7

IW-19
397.23

397

IW-9
397.1

MW-12
396.95

IW-5
397.04

397.5

IW-18
397.2

IW-13
396.99

MW-15BR

IW-8
396.95

IW-4
397.38

IW-2
398.54

MW-17
398.16

IW-12
397.1

MW-15
397.84

398

MW-10
397.38

MW-10BR

IW-7
397.03

IW-3
397.22

MW-17BR

397

IW-1
397.53

MW-11
396.5

0 200 400 Feet

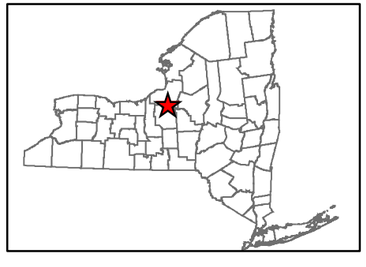
GRAPHIC SCALE

Legend

- Monitoring Well
- Injection Well
- Former Monitoring Well
- Potentiometric Contour (Feet Above Mean Sea Level [ft. amsl])
- Site Parcel Boundary
- Tax Parcel
- 399.75 Groundwater Elevation (ft. amsl)

N

NOTES:
Aerial Background: Google Satellite



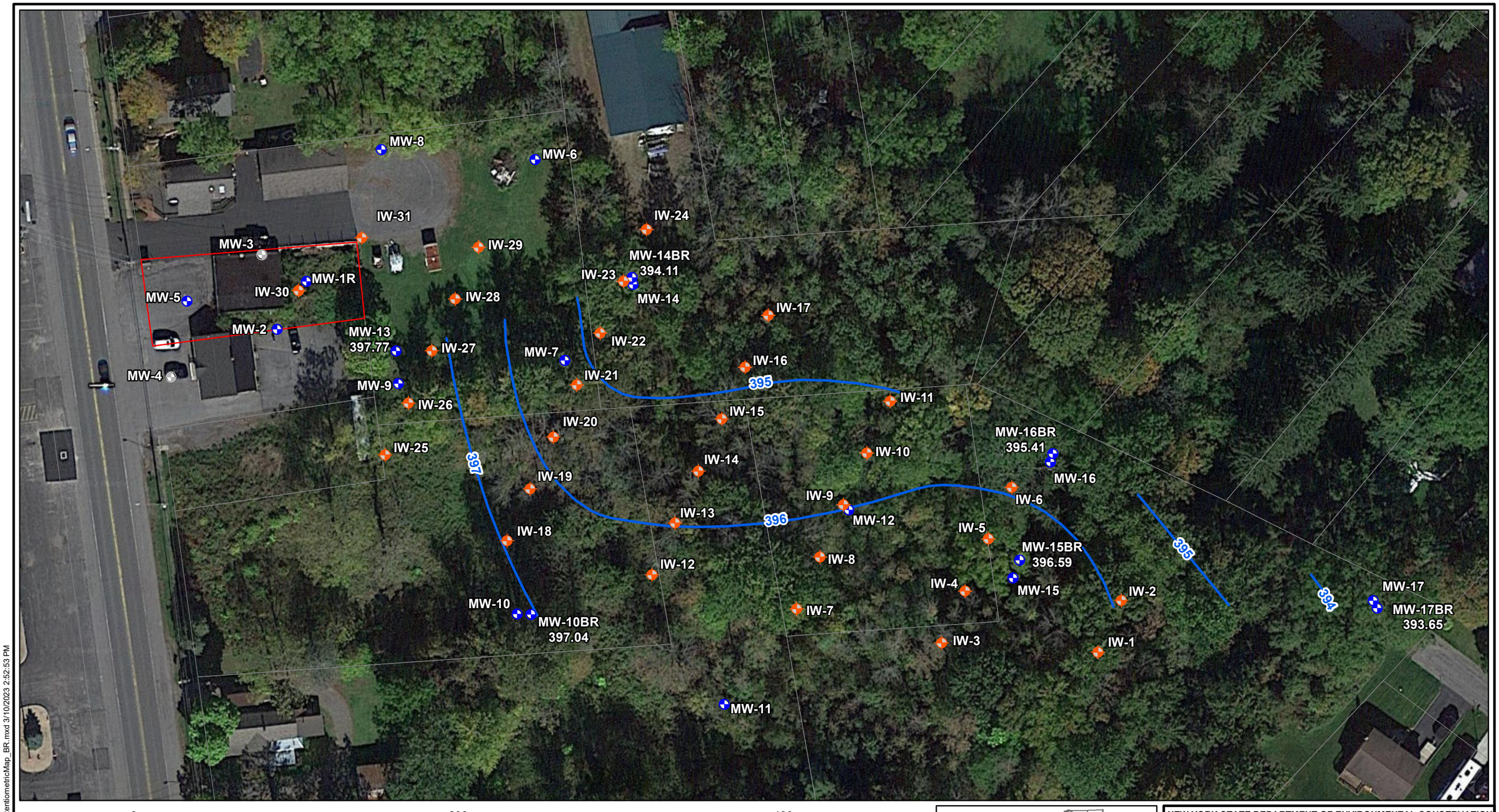
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

OVERBURDEN POTENTIOMETRIC CONTOUR MAP NOVEMBER 28, 2022

ARCADIS

FIGURE 2

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux
Project 30135043.02
T:_ENV\NYSDEC\Brewerton_Jacks\mxd\PotentiometricMap_OB.mxd 1/6/2023 4:18:46 PM



0 200 400 Feet

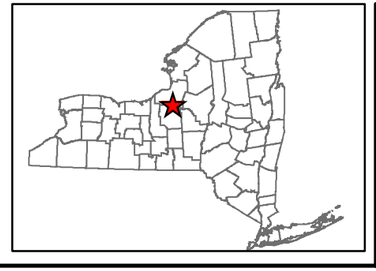
GRAPHIC SCALE

Legend

- Monitoring Well
- Injection Well
- Former Monitoring Well
- Potentiometric Contour (Feet Above Mean Sea Level [ft. amsl])
- Site Parcel Boundary
- Tax Parcel
- 395.41 Groundwater Elevation (ft. amsl)

N

NOTES:
Aerial Background: Google Satellite



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

BEDROCK POTENTIOMETRIC CONTOUR MAP NOVEMBER 28, 2022

ARCADIS

FIGURE 3

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux
Project 30135043.02
T:_ENV\NYSDEC\Brewerton_Jacks\mxd\PotentiometricMap_BR.mxd 3/10/2023 2:52:53 PM

MW-1R			
Date	7/26/19	12/10/19	12/1/22
PCE (µg/L)	0.4	90	200
TCE (µg/L)	0.7	44	71
cDCE (µg/L)	47	260	150
tDCE (µg/L)	ND	2.2	1.4 J
VC (µg/L)	35	89	32

MW-8			
Date	7/23/19	12/11/19	12/2/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	ND	ND
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

IW-31			
Date	7/25/19	12/10/19	12/2/22
PCE (µg/L)	ND	ND	0.48 J
TCE (µg/L)	ND	ND	0.43 J
cDCE (µg/L)	ND	ND	2.2
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	4.4 J

IW-29			
Date	7/25/19	12/11/19	11/29/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	ND	1.1
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	0.36 J

IW-24			
Date	7/23/19	12/11/19	11/29/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	ND	1.4
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	0.22 J

MW-14			
Date	7/23/19	12/11/19	11/30/22
PCE (µg/L)	ND	ND	1.7
TCE (µg/L)	ND	ND	1.1
cDCE (µg/L)	ND	ND	1.7
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	0.37 J

MW-2			
Date	7/23/19	12/10/19	12/1/22
PCE (µg/L)	37	30	15
TCE (µg/L)	7.2	4.1	1.8
cDCE (µg/L)	6.2	2.4	0.63 J
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

IW-17			
Date	7/25/19	12/12/19	11/29/22
PCE (µg/L)	ND	ND	ND [ND]
TCE (µg/L)	60	ND	ND [ND]
cDCE (µg/L)	4000	ND	11 [11]
tDCE (µg/L)	ND	ND	ND [ND]
VC (µg/L)	250	ND	11 [11]

MW-5			
Date	7/23/19	12/10/19	11/30/22
PCE (µg/L)	ND	ND	0.82 J
TCE (µg/L)	ND	ND	0.54 J
cDCE (µg/L)	ND	ND	0.58 J
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

IW-11			
Date	7/25/19	12/12/19	11/29/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	0.33 J
cDCE (µg/L)	ND	ND	1.2
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	0.61 J

MW-12			
Date	7/26/19	12/12/19	12/1/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	0.69 J
cDCE (µg/L)	ND	ND	0.84 J
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

MW-9			
Date	7/23/19	12/11/19	11/30/22
PCE (µg/L)	1.7	1.7	460
TCE (µg/L)	26	1.6	370
cDCE (µg/L)	200	47	840
tDCE (µg/L)	3.6	1.6	9.1 J
VC (µg/L)	54	29	110

MW-7			
Date	7/26/19	12/11/19	12/1/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	5.3	130	5.9
tDCE (µg/L)	ND	1.3	ND
VC (µg/L)	3.9	170	16

MW-17			
Date	7/24/19	12/13/19	12/1/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	ND	ND
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

MW-16			
Date	7/24/19	12/12/19	12/1/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	0.52 J
cDCE (µg/L)	ND	ND	ND
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

IW-25			
Date	7/23/19	12/11/19	11/29/22
PCE (µg/L)	ND	ND	ND [ND]
TCE (µg/L)	ND	ND	31 [30]
cDCE (µg/L)	5.2	1	1400 [1300]
tDCE (µg/L)	3.6	0.9	13 J [12]
VC (µg/L)	5	ND	450 [420]

IW-19			
Date	7/25/19	12/11/19	11/29/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	1.3
cDCE (µg/L)	1.2	ND	27
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	1.9	ND	16

IW-7			
Date	7/25/19	12/12/19	11/29/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	0.5	ND	ND
cDCE (µg/L)	1.8	ND	0.40 J
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	7.6	1.4	ND

IW-2			
Date	7/24/19	12/12/19	11/30/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	ND	ND
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

MW-10			
Date	7/25/19	12/11/19	12/14/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	ND	ND
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	2.2	ND	ND

IW-14			
Date	7/26/19	12/12/19	11/29/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	5100	4600	1.7
tDCE (µg/L)	ND	ND	0.21 J
VC (µg/L)	1100	1100	1.5 J

MW-11			
Date	7/25/19	12/12/19	11/29/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	0.9	0.42 J
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	0.9	1	ND

IW-3			
Date	7/24/19	12/12/19	11/30/22
PCE (µg/L)	ND	4.1	ND
TCE (µg/L)	ND	2.1	ND
cDCE (µg/L)	ND	30	3.9
tDCE (µg/L)	ND	ND	0.34 J
VC (µg/L)	ND	ND	1.1 J

MW-15			
Date	7/24/19	12/12/19	11/30/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	ND	ND
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

IW-1			
Date	7/24/19	12/13/19	11/30/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	ND	ND
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

MW-1R, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-10BR, MW-11, MW-12, MW-13, MW-14BR, MW-15, MW-15BR, MW-16, MW-16BR, MW-17, MW-17BR, IW-1, IW-2, IW-3, IW-4, IW-5, IW-6, IW-7, IW-8, IW-9, IW-10, IW-11, IW-12, IW-13, IW-14, IW-15, IW-16, IW-17, IW-18, IW-19, IW-20, IW-21, IW-22, IW-23, IW-24, IW-25, IW-26, IW-27, IW-28, IW-29, IW-30, IW-31

0 200 400 Feet

GRAPHIC SCALE

Legend

- Monitoring Well
- Injection Well
- Former Monitoring Well
- Site Parcel Boundary
- Tax Parcel

NOTES:
ug/l - micrograms per liter.
Shaded cells exceed corresponding NYSDEC Class GA Standard.
J - Indicates an estimated value.
ND - Not detected.
IW-25 - Additional values shown during the 2022 event represent a duplicate sample collected at this location.

Aerial Background: Google Satellite

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

SUMMARY OF CVOCS IN OVERBURDEN GROUNDWATER

ARCADIS

FIGURE 4

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux
Project 30135043.02
T:_ENV\NYSDEC\Brewerton_Jacks\mxd\Figure4_OB_CVOCS.mxd 3/13/2023 2:27:36 PM

MW-8
MW-6
IW-24
IW-31
IW-29
MW-3
MW-1R
MW-14BR
MW-5
IW-28
IW-23
MW-14
IW-30
IW-17
IW-22
MW-2
MW-13
IW-27
MW-7
IW-16
MW-4
MW-9
IW-21
IW-11
IW-26
IW-15
IW-20
IW-10
IW-25
MW-16BR
IW-14
MW-16
IW-6
IW-19
IW-9
IW-13
MW-12
IW-18
IW-5
IW-8
MW-15BR
IW-12
IW-4
MW-15
IW-2
IW-7
MW-17
MW-10
MW-10BR
IW-3
MW-17BR
IW-1
MW-11

MW-14BR

Date	7/23/19	12/11/19	11/29/22
PCE (µg/L)	14	ND	ND
TCE (µg/L)	55	37	0.96 J
cDCE (µg/L)	120	78	3.1
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	0.59 J

MW-16BR

Date	7/24/19	12/12/19	12/1/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	ND	ND
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

MW-15BR

Date	7/24/19	12/12/19	11/30/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	0.9	0.8	2
cDCE (µg/L)	42	17	43
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	32	12	16

MW-17BR

Date	7/24/19	12/13/19	12/1/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	ND	ND
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

MW-13

Date	7/23/19	12/11/19	11/30/22
PCE (µg/L)	1400	2.4	1000
TCE (µg/L)	960	3.7	490
cDCE (µg/L)	2800	15	810
tDCE (µg/L)	ND	ND	11 J
VC (µg/L)	170	ND	76

MW-10BR

Date	7/25/19	12/11/19	11/30/22
PCE (µg/L)	ND	ND	ND
TCE (µg/L)	ND	ND	ND
cDCE (µg/L)	ND	ND	ND
tDCE (µg/L)	ND	ND	ND
VC (µg/L)	ND	ND	ND

0 200 400 Feet

GRAPHIC SCALE

Legend

- Monitoring Well
- Injection Well
- Former Monitoring Well
- Site Parcel Boundary
- Tax Parcel

NOTES:
µg/l - micrograms per liter.
Shaded cells exceed corresponding NYSDEC Class GA Standard.
J - Indicates an estimated value.
ND - Not detected.

Aerial Background: Google Satellite

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

SUMMARY OF CVOCS IN BEDROCK GROUNDWATER

ARCADIS

FIGURE 5

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux
Project 30135043.02
T:_ENV\NYSDEC\Brewerton_Jacks\mxd\Hitbox_BR.mxd 3/13/2023 2:32:14 PM

Table 1
Summary of Groundwater Elevations
Brewerton Jack's Cleaners
Brewerton, New York

NYSDEC Site No. 734112

Well ID	Ground Elevation (ft. AMSL)	Measuring Point Elevation (ft. AMSL)	Northing	Easting	Well Diameter (inches)	Depth to Bedrock (ft. below TOC)	Well Total Depth (ft. below TOC)	Historic - December 2019		11/28/2022	
								DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)
MW-1R	400.70	400.87	1179435.99	938419.55	2	19	19	1.40	399.47	3.15	397.72
MW-2	401.39	401.10	1179406.36	938401.50	2	--	15	1.48	399.62	1.51	399.59
MW-5	402.55	402.12	1179423.87	938346.034	2	--	15	2.60	399.52	2.72	399.40
MW-7	400.29	399.98	1179387.25	938578.481	2	20.5	20.5	1.99	397.99	2.77	397.21
MW-8	404.24	403.92	1179517.28	938465.636	2	15	15	4.53	399.39	4.17	399.75
MW-9	400.05	399.80	1179372.97	938476.18	2	18.5	18.5	1.29	398.51	1.73	398.07
MW-10	397.8	400.39	1179231.27	938549.17	2	-	15.5	3.05	397.34	3.01	397.38
MW-10BR	397.90	400.36	1179231.07	938557.73	2	20	28	2.90	397.46	3.32	397.04
MW-11	397.6	400.19	1179175.67	938676.702	2	--	18	4.14	396.05	3.69	396.50
MW-12	397.5	399.84	1179295.2	938753.404	2	15	15	2.96	396.88	2.89	396.95
MW-13	400.78	400.53	1179393.27	938474.70	2	18	29.5	2.39	398.14	2.76	397.77
MW-14	397.20	399.79	1179434.26	938620.63	2	26	23	3.05	396.74	2.96	396.83
MW-14BR	397.40	399.69	1179438.25	938619.91	2	23	38	3.05	396.64	5.58	394.11
MW-15	399.50	402.13	1179253.40	938854.42	2	--	15.5	3.39	398.74	4.29	397.84
MW-15BR	399.40	402.04	1179264.43	938858.49	2	15	30	5.59	396.45	5.45	396.59
MW-16	402.30	404.46	1179324.66	938877.49	2	--	24.75	5.11	399.35	7.76	396.70
MW-16BR	402.60	404.95	1179329.70	938879.08	2	24	40.25	9.31	395.64	9.54	395.41
MW-17	401.90	404.19	1179239.28	939076.09	2	--	17	4.61	399.58	6.03	398.16
MW-17BR	401.50	403.65	1179234.67	939078.76	2	15	30.51	8.77	394.88	10.00	393.65
IW-1	UNK	401.19	1179207.88	938906.88	2	16	17.9	2.72	398.47	3.66	397.53
IW-2	UNK	401.22	1179239.81	938921.23	2	--	17	2.40	398.82	2.68	398.54
IW-3	UNK	399.85	1179213.54	938810.60	2	18	18	2.78	397.07	2.63	397.22
IW-4	UNK	400.09	1179245.46	938824.95	2	17.5	18.9	NM	--	2.71	397.38
IW-5	UNK	401.25	1179277.39	938839.30	2	17.5	18	NM	--	4.21	397.04
IW-6	UNK	402.93	1179309.31	938853.65	2	17	18	NM	--	5.31	397.62
IW-7	UNK	398.63	1179234.54	938721.37	2	17	18	NM	--	1.60	397.03
IW-8	UNK	398.67	1179266.46	938735.72	2	16	18	NM	--	1.72	396.95
IW-9	UNK	399.57	1179298.38	938750.06	2	14	17	NM	--	2.47	397.10
IW-10	UNK	400.15	1179330.31	938764.41	2	14	17	NM	--	3.22	396.93
IW-11	UNK	400.44	1179362.23	938778.76	2	16	18	2.91	397.53	3.45	396.99
IW-12	UNK	398.14	1179255.53	938632.13	2	15	16.8	NM	--	1.04	397.10
IW-13	UNK	398.34	1179287.46	938646.48	2	17	20.5	NM	--	1.35	396.99
IW-14	UNK	399.64	1179319.38	938660.83	2	18	21	3.54	396.10	2.78	396.86
IW-15	UNK	399.46	1179351.30	938675.18	2	20	21.5	NM	--	2.44	397.02
IW-16	UNK	398.63	1179383.23	938689.53	2	20	21	NM	--	1.76	396.87
IW-17	UNK	398.68	1179415.15	938703.87	2	17	20.8	2.02	396.66	1.79	396.89
IW-18	UNK	398.89	1179276.53	938542.90	2	16.5	20	NM	--	1.69	397.20
IW-19	UNK	398.21	1179308.45	938557.25	2	20	22.5	0.61	397.60	0.98	397.23
IW-20	UNK	398.39	1179340.38	938571.59	2	15.5	19	NM	--	1.20	397.19
IW-21	UNK	399.29	1179372.30	938585.94	2	15	20.5	NM	--	1.81	397.48
IW-22	UNK	398.25	1179404.23	938600.29	2	14	18.5	NM	--	0.84	397.41
IW-23	UNK	399.14	1179436.15	938614.64	2	17.5	20	NM	--	2.03	397.11
IW-24	UNK	397.57	1179468.07	938628.99	2	20	21.6	0.65	396.92	0.31	397.26
IW-25	UNK	398.29	1179329.44	938468.00	2	15.5	19	0.60	397.69	0.67	397.62
IW-26	UNK	398.56	1179361.36	938482.35	2	12.5	15.5	NM	--	0.73	397.83
IW-27	UNK	400.66	1179393.28	938496.70	2	16.8	20.5	NM	--	2.73	397.93
IW-28	UNK	401.41	1179425.21	938511.05	2	17	20.2	NM	--	2.55	398.86
IW-29	UNK	402.15	1179457.13	938525.40	2	17.5	20.5	3.52	398.63	4.11	398.04
IW-30	UNK	401.27	1179430.23	938414.63	2	13.5	15	NM	--	1.94	399.33
IW-31	UNK	403.63	1179462.15	938428.98	2	16	18	4.39	399.24	4.07	399.56

NM - Not measured
UNK - Unknown
Horizontal coordinated were surveyed using NAD83
Horizontal coordinated were surveyed using NAD88

Table 2
Summary of 2022 Q4 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Well ID	VOCs Method 8260	Dissolved Gases (MEE) Method RSK-175	PFAS 40 compound Method 1633
MW-1R	X	X	X
MW-2	X	X	
MW-5	X	X	
MW-7	X	X	X
MW-8	X	X	
MW-9	X	X	
MW-10	X	X	
MW-10BR	X	X	
MW-11	X	X	
MW-12	X	X	X
MW-13	X	X	
MW-14	X	X	
MW-14BR	X	X	
MW-15	X	X	
MW-15BR	X	X	
MW-16	X	X	
MW-16BR	X	X	
MW-17	X	X	
MW-17BR	X	X	
IW-1	X	X	
IW-2	X	X	
IW-3	X	X	
IW-4			
IW-5			
IW-6			
IW-7	X	X	
IW-8			
IW-9			
IW-10			
IW-11	X	X	
IW-12			
IW-13			
IW-14	X	X	
IW-15			
IW-16			
IW-17	X	X	
IW-18			
IW-19	X	X	
IW-20			
IW-21			
IW-22			
IW-23			
IW-24	X	X	
IW-25	X	X	
IW-26			
IW-27			
IW-28			
IW-29	X	X	
IW-30			
IW-31	X	X	

Table 3
Summary of Groundwater Sampling Results
2022 Q4 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID: / Date Collected:	NYSDEC Class GA Groundwater Standards	Units	IW-1 07/24/19	IW-1 12/13/19	IW-1 11/30/22	IW-2 07/24/19	IW-2 12/12/19	IW-2 11/30/22	IW-3 07/24/19	IW-3 12/12/19	IW-3 11/30/22	IW-7 07/25/19	IW-7 12/12/19	IW-7 11/29/22
Volatile Organic Compounds														
1,1-Dichloroethane	5	µg/L	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U
1,1-Dichloroethene	5	µg/L	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U
1,2-Dichloroethane	0.6	µg/L	ND	ND	0.31 UJ	ND	ND	0.31 UJ	ND	ND	0.31 UJ	ND	ND	0.31 UJ
1,4-Dioxane	- -	µg/L	NA	NA	21 U	NA	NA	21 U	NA	NA	21 U	NA	NA	21 U
2-Butanone (MEK)	50	µg/L	ND	**67**	15 J	**100**	48	3.5 J	**400**	**780**	11 J	6.3	18	1.6 U
Acetone	50	µg/L	ND	**250**	**75**	**960**	**660**	26 J	**650**	**340**	19 J	7.3	45	3.6 J
Bromodichloromethane	50	µg/L	ND	ND	0.18 U	ND	ND	0.18 U	ND	ND	0.18 U	ND	ND	0.18 U
Carbon Disulfide	60	µg/L	ND	ND	1.4 U	ND	ND	1.4 U	ND	ND	1.4 U	ND	ND	1.4 U
Chlorodibromomethane	50	µg/L	ND	ND	0.22 U	ND	ND	0.22 U	ND	ND	0.22 U	ND	ND	0.22 U
Chloroethane	5	µg/L	ND	ND	0.32 U	ND	ND	0.32 U	ND	ND	0.32 U	ND	1	0.32 U
Chloroform	7	µg/L	ND	ND	0.17 U	ND	ND	0.17 U	ND	ND	0.17 U	ND	ND	0.17 U
Chloromethane	5	µg/L	ND	ND	0.52 U	ND	ND	0.52 U	ND	1.4	0.52 U	ND	1	0.52 U
cis-1,2-Dichloroethene	5	µg/L	ND	ND	0.15 U	ND	ND	0.15 U	ND	**30**	3.9	1.8	ND	0.40 J
Cyclohexane	- -	µg/L	ND	ND	NA	ND	ND	NA	ND	ND	NA	1.5	1.5	NA
Dichloromethane	5	µg/L	2.8	**17**	0.23 U	2.1	1.9	0.23 U	**100**	ND	0.23 U	ND	ND	0.23 U
Diethyl ether	- -	µg/L	NA	NA	0.18 U	NA	NA	0.18 U	NA	NA	0.18 U	NA	NA	0.18 U
Di-isopropyl ether	- -	µg/L	NA	NA	0.13 U	NA	NA	0.13 U	NA	NA	0.13 U	NA	NA	0.13 U
Methyl Acetate	- -	µg/L	ND	ND	0.45 U	ND	ND	0.45 U	ND	ND	0.45 U	ND	ND	0.45 U
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/L	ND	ND	1.1 U	ND	ND	1.1 U	ND	ND	1.1 U	ND	ND	1.1 U
Methylcyclohexane	- -	µg/L	ND	ND	0.24 U	ND	ND	0.24 U	ND	ND	0.24 U	0.5	0.3	0.24 U
Tetrachloroethene	5	µg/L	ND	ND	0.19 U	ND	ND	0.19 U	ND	4.1	0.19 U	ND	ND	0.19 U
Tetrahydrofuran	50	µg/L	NA	NA	11	NA	NA	2.6 J	NA	NA	36	NA	NA	0.49 U
trans-1,2-Dichloroethene	5	µg/L	ND	ND	0.17 UJ	ND	ND	0.17 UJ	ND	ND	0.34 J	ND	ND	0.17 UJ
Trichloroethene	5	µg/L	ND	ND	0.19 U	ND	ND	0.19 U	ND	2.1	0.19 U	0.5	ND	0.19 U
Vinyl chloride	2	µg/L	ND	ND	0.21 U	ND	ND	0.21 U	ND	ND	1.1 J	**7.6**	1.4	0.21 U
Benzene	1	µg/L	ND	ND	0.2 U	ND	ND	0.2 U	ND	ND	0.2 U	0.9	**1.1**	0.81 J
Toluene	5	µg/L	ND	ND	0.25 J	ND	ND	0.30 J	ND	ND	0.22 U	ND	ND	0.22 U
Methyl-tert-butylether	10	µg/L	ND	ND	0.17 U	ND	ND	0.17 U	ND	ND	0.17 U	0.3	0.4	0.50 J
Total VOCs	- -	µg/L	2.8	334	NA	1,062	710	NA	1,150	1,298	NA	27	70	NA
Dissolved Gases														
Ethane	- -	µg/L	ND	ND	2.6 U	ND	ND	2.6 U	ND	ND	2.6 U	ND	ND	63
Ethene	- -	µg/L	ND	ND	3 U	ND	ND	3 U	ND	ND	3 U	ND	3,100	3 U
Methane	- -	µg/L	ND	15,000	7,300	NA	6,600	200	NA	19,000	5,300	NA	21,000	12,000
PFAS	**NYSDEC Maximum Contaminant Levels (MCL)**													
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2022 Q4 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID: / Date Collected:	NYSDEC Class GA Groundwater Standards	Units	IW-11 07/25/19	IW-11 12/12/19	IW-11 11/29/22	IW-14 07/26/19	IW-14 12/12/19	IW-14 11/29/22	IW-17 07/25/19	IW-17 12/12/19	IW-17 11/29/22	IW-19 07/25/19	IW-19 12/11/19
Volatile Organic Compounds													
1,1-Dichloroethane	5	µg/L	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND	0.81 J [0.86 J]	ND	ND
1,1-Dichloroethene	5	µg/L	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U [0.14 U]	ND	ND
1,2-Dichloroethane	0.6	µg/L	ND	ND	0.31 UJ	ND	ND	0.31 UJ	ND	ND	**0.86 J [0.9 J]**	**0.7**	ND
1,4-Dioxane	- -	µg/L	NA	NA	21 U	NA	NA	21 U	NA	NA	21 UJ [21 U]	NA	NA
2-Butanone (MEK)	50	µg/L	**980**	**420**	3.5 J	**760**	**750**	13 J	**740**	**200**	12 J [12 J]	**87**	**89**
Acetone	50	µg/L	**1,500**	**880**	4.8 J	ND	ND	5.3 J	ND	ND	9.6 J [9.4 J]	37	**130**
Bromodichloromethane	50	µg/L	ND	ND	0.18 U	ND	ND	0.18 U	ND	ND	0.18 U [0.18 U]	ND	ND
Carbon Disulfide	60	µg/L	ND	ND	1.4 U	ND	ND	1.4 U	ND	ND	1.4 U [1.4 U]	ND	ND
Chlorodibromomethane	50	µg/L	ND	ND	0.22 U	ND	ND	0.22 U	ND	ND	0.22 U [0.22 U]	ND	ND
Chloroethane	5	µg/L	ND	ND	0.32 U	ND	ND	0.32 U	ND	ND	0.32 U [0.32 U]	ND	ND
Chloroform	7	µg/L	ND	ND	0.17 U	ND	ND	0.17 U	ND	ND	0.17 U [0.17 U]	ND	ND
Chloromethane	5	µg/L	ND	ND	0.52 U	ND	ND	0.52 U	ND	ND	0.52 U [0.52 U]	ND	ND
cis-1,2-Dichloroethene	5	µg/L	ND	ND	1.2	**5,100**	**4,600**	1.7	**4,000**	ND	**11 [11]**	1.2	ND
Cyclohexane	- -	µg/L	ND	ND	NA	ND	ND	NA	ND	ND	NA	3.7	3.8
Dichloromethane	5	µg/L	ND	**41**	0.23 U	**50**	**95**	0.23 U	ND	**100**	0.23 U [0.23 U]	ND	ND
Diethyl ether	- -	µg/L	NA	NA	0.18 U	NA	NA	0.18 U	NA	NA	0.75 J [0.81 J]	NA	NA
Di-isopropyl ether	- -	µg/L	NA	NA	0.13 U	NA	NA	0.13 U	NA	NA	0.26 J [0.28 J]	NA	NA
Methyl Acetate	- -	µg/L	ND	ND	0.45 U	ND	ND	0.45 U	ND	ND	2.0 J [1.8]	ND	ND
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/L	**250**	ND	1.1 U	ND	ND	1.1 U	ND	ND	1.1 U [1.1 U]	ND	ND
Methylcyclohexane	- -	µg/L	ND	ND	0.24 U	ND	ND	0.24 U	ND	ND	0.24 U [0.24 U]	0.4	9.8
Tetrachloroethene	5	µg/L	ND	ND	0.19 U	ND	ND	0.19 U	ND	ND	0.19 U [0.19 U]	ND	ND
Tetrahydrofuran	50	µg/L	NA	NA	2.2 J	NA	NA	0.49 U	NA	NA	0.49 U [0.49 U]	NA	NA
trans-1,2-Dichloroethene	5	µg/L	ND	ND	0.17 UJ	ND	ND	0.21 J	ND	ND	0.17 U [0.17 U]	ND	ND
Trichloroethene	5	µg/L	ND	ND	0.33 J	ND	ND	0.19 U	**60**	ND	0.19 U [0.19 U]	ND	ND
Vinyl chloride	2	µg/L	ND	ND	0.61 J	**1,100**	**1,100**	1.5 J	**250**	ND	**11 [11]**	1.9	ND
Benzene	1	µg/L	ND	ND	0.2 U	ND	ND	**1.2**	ND	ND	**1.7 [1.8]**	**4.6**	ND
Toluene	5	µg/L	ND	ND	0.22 U	ND	ND	0.39 J	ND	ND	0.33 J [0.3 J]	ND	ND
Methyl-tert-butylether	10	µg/L	ND	ND	0.17 U	ND	ND	0.17 U	ND	ND	0.56 J [0.57 J]	1.8	ND
Total VOCs	- -	µg/L	2,730	1,341	NA	7,010	6,545	NA	5,050	300	NA	138	233
Dissolved Gases													
Ethane	- -	µg/L	ND	ND	2.6 U	ND	38	68	ND	ND	160 [170]	ND	ND
Ethene	- -	µg/L	ND	ND	3 U	ND	1,800	6.7 J	ND	ND	120 [130]	ND	ND
Methane	- -	µg/L	NA	9,100	12,000	NA	4,900	11,000	NA	9,700	13,000 [12,000]	NA	15,000
PFAS	**NYSDEC Maximum Contaminant Levels (MCL)**												
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maxim
J - Indicates an estimated value.
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2022 Q4 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID: / Date Collected:	NYSDEC Class GA Groundwater Standards	Units	IW-19 11/29/22	IW-24 07/23/19	IW-24 12/11/19	IW-24 11/29/22	IW-25 07/23/19	IW-25 12/11/19	IW-25 11/29/22	IW-29 07/25/19	IW-29 12/11/19	IW-29 11/29/22	IW-31 07/25/19
Volatile Organic Compounds													
1,1-Dichloroethane	5	µg/L	0.14 U	ND	ND	0.14 U	ND	ND	2.8 U [1.4 U]	ND	ND	0.14 U	ND
1,1-Dichloroethene	5	µg/L	0.14 U	ND	ND	0.14 U	ND	ND	2.8 U [2 J]	ND	ND	0.14 U	ND
1,2-Dichloroethane	0.6	µg/L	0.31 UJ	ND	ND	0.31 UJ	ND	ND	6.2 UJ [3.1 U]	ND	ND	0.31 UJ	ND
1,4-Dioxane	- -	µg/L	21 U	NA	NA	21 U	NA	NA	410 U [210 U]	NA	NA	21 U	NA
2-Butanone (MEK)	50	µg/L	1.6 U	22	**80**	6.9 J	12	1.5	32 U [16 U]	ND	ND	1.6 U	ND
Acetone	50	µg/L	2.6 J	39	**110**	28 J	39	4	41 U [20 U]	42	ND	2.3 J	ND
Bromodichloromethane	50	µg/L	0.18 U	ND	ND	0.18 U	ND	ND	3.6 U [1.8 U]	ND	ND	0.18 U	ND
Carbon Disulfide	60	µg/L	1.4 U	ND	ND	1.4 U	ND	ND	29 U [14 U]	ND	ND	1.4 U	ND
Chlorodibromomethane	50	µg/L	0.22 U	ND	ND	0.22 U	ND	ND	4.4 U [2.2 U]	ND	ND	0.22 U	ND
Chloroethane	5	µg/L	0.32 U	ND	ND	0.32 U	ND	ND	6.4 U [3.2 U]	ND	ND	0.32 U	ND
Chloroform	7	µg/L	0.17 U	ND	ND	0.17 U	ND	ND	3.4 U [1.7 U]	ND	ND	0.17 U	ND
Chloromethane	5	µg/L	0.52 U	ND	ND	0.52 U	ND	ND	10 U [5.2 U]	ND	ND	0.52 U	ND
cis-1,2-Dichloroethene	5	µg/L	**27**	ND	ND	1.4	**5.2**	1	**1,400 [1,300]**	ND	ND	1.1	ND
Cyclohexane	- -	µg/L	NA	ND	ND	NA	15	7	NA	ND	ND	NA	ND
Dichloromethane	5	µg/L	0.23 U	ND	ND	0.23 U	ND	ND	4.7 U [2.3 U]	4.6	ND	0.23 U	**5.3**
Diethyl ether	- -	µg/L	0.18 U	NA	NA	0.18 U	NA	NA	3.6 U [1.8 U]	NA	NA	0.18 U	NA
Di-isopropyl ether	- -	µg/L	0.13 U	NA	NA	0.13 U	NA	NA	2.6 U [1.3 U]	NA	NA	0.13 U	NA
Methyl Acetate	- -	µg/L	0.45 U	ND	ND	0.91 J	ND	ND	9.1 U [4.5 U]	ND	ND	0.45 U	ND
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/L	1.1 U	ND	ND	1.1 U	ND	ND	22 U [11 U]	ND	ND	1.1 U	ND
Methylcyclohexane	- -	µg/L	0.24 U	ND	ND	0.24 U	1.4	0.6	4.9 U [2.4 U]	ND	ND	0.24 U	ND
Tetrachloroethene	5	µg/L	0.19 U	ND	ND	0.19 U	ND	ND	3.7 U [1.9 U]	ND	ND	0.19 U	ND
Tetrahydrofuran	50	µg/L	0.49 U	NA	NA	1.3 J	NA	NA	9.8 U [4.9 U]	NA	NA	0.49 U	NA
trans-1,2-Dichloroethene	5	µg/L	0.17 UJ	ND	ND	0.17 UJ	3.6	0.9	**13 J [12]**	ND	ND	0.17 UJ	ND
Trichloroethene	5	µg/L	1.3	ND	ND	0.19 U	ND	ND	**31 [30]**	ND	ND	0.19 U	ND
Vinyl chloride	2	µg/L	**16**	ND	ND	0.22 J	**5**	ND	**450 [420]**	ND	ND	0.36 J	ND
Benzene	1	µg/L	**3.5**	ND	ND	0.2 U	**3.1**	**2.9**	**4 U [2.4 J]**	ND	ND	0.2 U	ND
Toluene	5	µg/L	0.98 J	ND	ND	0.22 U	ND	ND	4.5 U [2.2 U]	ND	ND	0.27 J	ND
Methyl-tert-butylether	10	µg/L	0.98 J	0.2	ND	0.58 J	ND	ND	3.4 U [1.7 U]	ND	ND	0.17 U	ND
Total VOCs	- -	µg/L	NA	61	190	NA	84	18	NA	47	NA	NA	5.3
Dissolved Gases													
Ethane	- -	µg/L	19	ND	ND	2.6 U	ND	55	4.9 J [90 J]	ND	2.8	2.6 U	ND
Ethene	- -	µg/L	3 U	ND	ND	3 U	ND	ND	64 [72]	ND	ND	3 U	ND
Methane	- -	µg/L	8,200	NA	10,000	7,200	NA	15,000	4,600 [4,400]	NA	21,000	7,700	NA
PFAS	**NYSDEC Maximum Contaminant Levels (MCL)**												
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maxim
J - Indicates an estimated value.
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2022 Q4 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID: / Date Collected:	NYSDEC Class GA Groundwater Standards	Units	IW-31 12/10/19	IW-31 12/02/22	MW-1R 07/26/19	MW-1R 12/10/19	MW-1R 12/01/22	MW-2 07/23/19	MW-2 12/10/19	MW-2 12/01/22	MW-5 07/23/19	MW-5 12/10/19	MW-5 11/30/22
Volatile Organic Compounds													
1,1-Dichloroethane	5	µg/L	ND	0.14 U	ND	ND	0.84 J	ND	ND	0.14 U	ND	ND	0.14 U
1,1-Dichloroethene	5	µg/L	ND	0.14 U	ND	1.6	0.66 J	ND	ND	0.14 U	ND	ND	0.14 U
1,2-Dichloroethane	0.6	µg/L	ND	0.31 U	ND	ND	0.62 U	ND	ND	0.31 U	ND	ND	0.31 U
1,4-Dioxane	- -	µg/L	NA	21 U	ND	NA	41 U	NA	NA	21 U	NA	NA	21 U
2-Butanone (MEK)	50	µg/L	ND	1.6 U	9.2	ND	3.2 U	ND	ND	1.6 U	ND	ND	1.6 U
Acetone	50	µg/L	ND	4.5 J	**120**	34	4.1 U	3.6	ND	2 U	ND	ND	2 U
Bromodichloromethane	50	µg/L	ND	0.18 U	ND	ND	0.36 U	ND	ND	0.70	ND	ND	0.18 U
Carbon Disulfide	60	µg/L	ND	1.4 U	ND	ND	2.9 U	ND	ND	1.4 U	ND	ND	1.4 U
Chlorodibromomethane	50	µg/L	ND	0.22 U	ND	ND	0.44 U	ND	ND	0.33 J	ND	ND	0.22 U
Chloroethane	5	µg/L	ND	0.32 U	0.88	ND	0.64 U	ND	ND	0.32 U	ND	ND	0.32 U
Chloroform	7	µg/L	ND	0.17 U	ND	ND	0.34 U	0.7	ND	0.17 U	ND	ND	0.17 U
Chloromethane	5	µg/L	ND	0.52 U	ND	ND	1 U	ND	ND	0.52 U	ND	ND	0.52 U
cis-1,2-Dichloroethene	5	µg/L	ND	2.2	**47**	**260**	**150**	**6.2**	2.4	0.63 J	ND	ND	0.58 J
Cyclohexane	- -	µg/L	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND	NA
Dichloromethane	5	µg/L	ND	0.23 U	ND	ND	0.47 U	ND	ND	0.23 U	ND	ND	0.23 U
Diethyl ether	- -	µg/L	NA	0.18 U	NA	NA	0.36 U	NA	NA	0.18 U	NA	NA	0.18 U
Di-isopropyl ether	- -	µg/L	NA	0.13 U	NA	NA	0.26 U	NA	NA	0.13 U	NA	NA	0.13 U
Methyl Acetate	- -	µg/L	ND	0.45 UJ	ND	ND	0.91 U	ND	ND	0.45 U	ND	ND	0.45 U
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/L	ND	1.1 U	3	ND	2.2 U	ND	ND	1.1 U	ND	ND	1.1 U
Methylcyclohexane	- -	µg/L	ND	0.24 U	ND	ND	0.49 U	ND	ND	0.24 U	ND	ND	0.24 U
Tetrachloroethene	5	µg/L	ND	0.48 J	0.4	**90**	**200**	**37**	**30**	**15**	ND	ND	0.82 J
Tetrahydrofuran	50	µg/L	NA	0.49 U	NA	NA	0.98 U	NA	NA	0.49 U	NA	NA	0.49 U
trans-1,2-Dichloroethene	5	µg/L	ND	0.17 U	ND	2.2	1.4 J	ND	ND	0.17 U	ND	ND	0.17 U
Trichloroethene	5	µg/L	ND	0.43 J	0.7	**44**	**71**	**7.2**	4.1	1.8	ND	ND	0.54 J
Vinyl chloride	2	µg/L	ND	**4.4 J**	**35**	**89**	**32**	ND	ND	0.21 U	ND	ND	0.21 U
Benzene	1	µg/L	ND	0.2 U	ND	ND	0.4 U	ND	ND	0.2 U	ND	ND	0.2 U
Toluene	5	µg/L	1.5	0.22 U	ND	ND	0.45 U	ND	ND	0.22 U	ND	ND	0.22 U
Methyl-tert-butylether	10	µg/L	ND	0.17 U	ND	ND	0.34 U	ND	ND	0.17 U	ND	ND	0.17 U
Total VOCs	- -	µg/L	1.5	NA	216	521	NA	55	37	NA	NA	NA	NA
Dissolved Gases													
Ethane	- -	µg/L	ND	2.6 U	NA	NA	140	NA	ND	2.6 U	NA	ND	2.6 U
Ethene	- -	µg/L	ND	3 U	NA	NA	26	NA	ND	3 U	NA	ND	3 U
Methane	- -	µg/L	11,000	11,000	NA	14,000	2,400	NA	ND	8.4 U	NA	15	1.2 U
PFAS	**NYSDEC Maximum Contaminant Levels (MCL)**												
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	- -	ng/L	NA	NA	NA	NA	4.46	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	- -	ng/L	NA	NA	ND	NA	3.67	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	- -	ng/L	NA	NA	ND	NA	7.92	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	- -	ng/L	NA	NA	ND	NA	10.1	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	- -	ng/L	NA	NA	ND	NA	4.1	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	- -	ng/L	NA	NA	8.6	NA	10.2	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	- -	ng/L	NA	NA	7.8	NA	8.42	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	- -	ng/L	NA	NA	11	NA	14.3	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	- -	ng/L	NA	NA	4.3	NA	9.43	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	- -	ng/L	NA	NA	ND	NA	7.92 J	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/L	NA	NA	**77**	NA	**415**	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/L	NA	NA	**39**	NA	**49.9**	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	- -	ng/L	NA	NA	NA	NA	2.66	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	- -	ng/L	NA	NA	ND	NA	19.1	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maxim
J - Indicates an estimated value.
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2022 Q4 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID: / Date Collected:	NYSDEC Class GA Groundwater Standards	Units	MW-7 07/26/19	MW-7 12/11/19	MW-7 12/01/22	MW-8 07/23/19	MW-8 12/11/19	MW-8 12/02/22	MW-9 07/23/19	MW-9 12/11/19	MW-9 11/30/22	MW-10 07/25/19	MW-10 12/11/19
Volatile Organic Compounds													
1,1-Dichloroethane	5	µg/L	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND	1.4 U	ND	ND
1,1-Dichloroethene	5	µg/L	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND	1.4 U	ND	ND
1,2-Dichloroethane	0.6	µg/L	ND	ND	0.31 U	ND	ND	0.31 U	ND	ND	3.1 UJ	ND	ND
1,4-Dioxane	- -	µg/L	0.31	NA	21 U	NA	NA	21 U	NA	NA	210 U	NA	NA
2-Butanone (MEK)	50	µg/L	36	ND	1.6 U	ND	ND	1.6 U	ND	ND	16 U	ND	ND
Acetone	50	µg/L	**130**	ND	2 U	ND	ND	3.1 J	ND	ND	20 U	ND	47
Bromodichloromethane	50	µg/L	ND	ND	0.18 U	ND	ND	0.18 U	ND	ND	1.8 U	ND	ND
Carbon Disulfide	60	µg/L	ND	ND	1.4 U	ND	ND	1.4 U	ND	ND	14 U	ND	ND
Chlorodibromomethane	50	µg/L	ND	ND	0.22 U	ND	ND	0.22 U	ND	ND	2.2 U	ND	ND
Chloroethane	5	µg/L	ND	ND	0.32 U	ND	ND	0.32 U	ND	ND	3.2 U	ND	ND
Chloroform	7	µg/L	ND	ND	0.17 U	ND	ND	0.17 U	ND	ND	1.7 U	ND	ND
Chloromethane	5	µg/L	ND	ND	0.52 U	ND	ND	0.52 U	ND	ND	5.2 U	ND	ND
cis-1,2-Dichloroethene	5	µg/L	**5.3**	**130**	**5.9**	ND	ND	0.15 U	**200**	**47**	**840**	ND	ND
Cyclohexane	- -	µg/L	ND	0.3	NA	ND	ND	NA	2.3	2.3	NA	0.7	ND
Dichloromethane	5	µg/L	ND	ND	0.23 U	ND	ND	0.23 U	ND	ND	2.3 U	ND	ND
Diethyl ether	- -	µg/L	NA	NA	0.18 U	NA	NA	0.18 U	NA	NA	1.8 U	NA	NA
Di-isopropyl ether	- -	µg/L	NA	NA	0.13 U	NA	NA	0.13 U	NA	NA	1.3 U	NA	NA
Methyl Acetate	- -	µg/L	ND	ND	0.45 U	ND	ND	0.45 UJ	ND	ND	4.5 U	ND	ND
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/L	ND	ND	1.1 U	ND	ND	1.1 U	ND	ND	11 U	ND	ND
Methylcyclohexane	- -	µg/L	ND	ND	0.24 U	ND	ND	0.24 U	0.9	0.7	2.4 U	0.2	ND
Tetrachloroethene	5	µg/L	ND	ND	0.19 U	ND	ND	0.19 U	1.7	1.7	**460**	ND	ND
Tetrahydrofuran	50	µg/L	NA	NA	0.49 U	NA	NA	0.49 U	NA	NA	4.9 U	NA	NA
trans-1,2-Dichloroethene	5	µg/L	ND	1.3	0.17 U	ND	ND	0.17 U	3.6	1.6	**9.1 J**	ND	ND
Trichloroethene	5	µg/L	ND	ND	0.19 U	ND	ND	0.19 U	**26**	1.6	**370**	ND	ND
Vinyl chloride	2	µg/L	**3.9**	**170**	**16**	ND	ND	0.21 UJ	**54**	**29**	**110**	**2.2**	ND
Benzene	1	µg/L	ND	ND	0.24 J	ND	ND	0.2 U	ND	ND	2 U	ND	ND
Toluene	5	µg/L	0.7	0.9	0.22 U	ND	ND	0.22 U	ND	ND	2.2 U	ND	ND
Methyl-tert-butylether	10	µg/L	ND	ND	0.17 U	ND	ND	0.17 U	ND	ND	1.7 U	1.4	ND
Total VOCs	- -	µg/L	176	302	NA	NA	NA	NA	288	84	NA	4.5	47
Dissolved Gases													
Ethane	- -	µg/L	NA	67	91	NA	ND	2.6 U	NA	24	36	NA	27
Ethene	- -	µg/L	NA	ND	11 J	NA	ND	3 U	NA	15	5.6 J	NA	ND
Methane	- -	µg/L	NA	20,000	8,000	NA	ND	19	NA	6,400	2,100	NA	1,700
PFAS	**NYSDEC Maximum Contaminant Levels (MCL)**												
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	- -	ng/L	NA	NA	1.56 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	- -	ng/L	2.1	NA	2.03	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	- -	ng/L	6.5	NA	6.95	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	- -	ng/L	ND	NA	1.56 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	- -	ng/L	ND	NA	1.56 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	- -	ng/L	2.9	NA	2.18	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	- -	ng/L	1.4	NA	1.8	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	- -	ng/L	5.6	NA	7.34	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	- -	ng/L	0.59	NA	1.09 J	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	- -	ng/L	0.4	NA	1.56 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/L	5.6	NA	**42.1**	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/L	8.7	NA	9.99	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	- -	ng/L	NA	NA	1.56 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	- -	ng/L	7.4	NA	9.83	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maxim
J - Indicates an estimated value.
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2022 Q4 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID: / Date Collected:	NYSDEC Class GA Groundwater Standards	Units	MW-10 12/14/22	MW-10BR 07/25/19	MW-10BR 12/11/19	MW-10BR 11/30/22	MW-11 07/25/19	MW-11 12/12/19	MW-11 11/29/22	MW-12 07/26/19	MW-12 12/12/19	MW-12 12/01/22
Volatile Organic Compounds												
1,1-Dichloroethane	5	µg/L	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U
1,1-Dichloroethene	5	µg/L	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U
1,2-Dichloroethane	0.6	µg/L	0.31 U	ND	ND	0.31 UJ	ND	ND	0.31 UJ	ND	ND	0.31 U
1,4-Dioxane	- -	µg/L	21 U	NA	NA	21 U	NA	NA	21 U	ND	NA	21 U
2-Butanone (MEK)	50	µg/L	1.6 U	ND	ND	1.6 U	ND	ND	1.6 U	ND	32	1.6 U
Acetone	50	µg/L	2 U	3.9	3.7	2 U	ND	ND	2.3 J	ND	**100**	2 U
Bromodichloromethane	50	µg/L	0.18 U	ND	ND	0.18 U	ND	ND	0.18 U	ND	ND	0.18 U
Carbon Disulfide	60	µg/L	1.4 U	ND	ND	1.4 U	ND	ND	1.4 U	ND	ND	1.4 U
Chlorodibromomethane	50	µg/L	0.22 U	ND	ND	0.22 U	ND	ND	0.22 U	ND	ND	0.22 U
Chloroethane	5	µg/L	0.32 U	ND	ND	0.32 U	ND	ND	0.32 U	ND	ND	**53**
Chloroform	7	µg/L	0.17 U	ND	ND	0.17 U	ND	ND	0.17 U	ND	ND	0.17 U
Chloromethane	5	µg/L	0.52 U	ND	ND	0.52 U	ND	ND	0.52 U	ND	ND	0.52 U
cis-1,2-Dichloroethene	5	µg/L	0.15 U	ND	ND	0.15 U	ND	0.9	0.42 J	ND	ND	0.84 J
Cyclohexane	- -	µg/L	NA	ND	0.7	NA	ND	ND	NA	ND	ND	NA
Dichloromethane	5	µg/L	0.23 U	ND	ND	0.23 U	ND	ND	0.23 U	**10**	**17**	0.23 U
Diethyl ether	- -	µg/L	0.18 U	NA	NA	0.18 U	NA	NA	0.18 U	NA	NA	0.18 U
Di-isopropyl ether	- -	µg/L	0.13 U	NA	NA	0.13 U	NA	NA	0.13 U	NA	NA	0.13 U
Methyl Acetate	- -	µg/L	0.45 UJ	ND	ND	0.45 U	ND	ND	0.45 U	ND	ND	0.45 U
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/L	1.1 U	ND	ND	1.1 U	ND	ND	1.1 U	ND	ND	1.1 U
Methylcyclohexane	- -	µg/L	0.24 U	ND	ND	0.24 U	ND	ND	0.24 U	ND	ND	0.24 U
Tetrachloroethene	5	µg/L	0.19 U	ND	ND	0.19 U	ND	ND	0.19 U	ND	ND	0.19 U
Tetrahydrofuran	50	µg/L	0.49 U	NA	NA	0.49 U	NA	NA	0.49 U	NA	NA	0.49 U
trans-1,2-Dichloroethene	5	µg/L	0.17 U	ND	ND	0.17 UJ	ND	ND	0.17 UJ	ND	ND	0.17 U
Trichloroethene	5	µg/L	0.19 U	ND	ND	0.19 U	ND	ND	0.19 U	ND	ND	0.69 J
Vinyl chloride	2	µg/L	0.21 U	ND	ND	0.21 U	0.9	1	0.21 U	ND	ND	0.21 U
Benzene	1	µg/L	0.2 U	ND	ND	0.2 U	ND	ND	0.2 U	ND	ND	0.21 J
Toluene	5	µg/L	0.22 U	ND	ND	0.22 U	ND	ND	0.22 U	ND	ND	0.50 J
Methyl-tert-butylether	10	µg/L	1.0	1.1	1.4	1.3	2.6	2.7	0.45 J	ND	ND	0.17 U
Total VOCs	- -	µg/L	NA	5	5.8	NA	3.5	4.6	NA	10	149	NA
Dissolved Gases												
Ethane	- -	µg/L	35	NA	260	24	NA	ND	72	NA	ND	44
Ethene	- -	µg/L	3 U	NA	ND	3 U	NA	30	3.4 J	NA	ND	5.2 J
Methane	- -	µg/L	5,000	NA	22,000	1,800	NA	4,500	4,600	NA	20,000	12,000
PFAS	**NYSDEC Maximum Contaminant Levels (MCL)**											
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.45 U [1.46 U]
Perfluorobutane sulfonic acid (PFBS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	ND	NA	1.45 U [1.46 U]
Perfluorobutanoic acid (PFBA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	7.9	NA	2.98 J [3.37 J]
Perfluorodecanoic acid (PFDA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	ND	NA	1.45 U [1.46 U]
Perfluoroheptane sulfonic acid (PFHpS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	0.23	NA	1.45 U [1.46 U]
Perfluoroheptanoic acid (PFHpA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	3.3	NA	0.508 J [1.46 U]
Perfluorohexane sulfonic acid (PFHxS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	0.96	NA	1.45 U [1.46 U]
Perfluorohexanoic acid (PFHxA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	4.6	NA	2.4 [1.32 J]
Perfluorononanoic acid (PFNA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	1.4	NA	2.47 [1.46 U]
Perfluorooctane sulfonamide (PFOSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	ND	NA	1.45 U [1.46 U]
Perfluorooctane sulfonic acid (PFOS)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	2.1	NA	1.45 U [1.46 U]
Perfluorooctanoic acid (PFOA)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	8.1	NA	0.798 J [0.806 J]
Perfluoropentane sulfonic acid (PFPeSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.45 U [1.46 U]
Perfluoropentanoic acid (PFPeA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	3.9	NA	1.81 J [1.9 J]

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maxim
J - Indicates an estimated value.
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2022 Q4 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID: / Date Collected:	NYSDEC Class GA Groundwater Standards	Units	MW-13 07/23/19	MW-13 12/11/19	MW-13 11/30/22	MW-14 07/23/19	MW-14 12/11/19	MW-14 11/30/22	MW-14BR 07/23/19	MW-14BR 12/11/19	MW-14BR 11/29/22	MW-15 07/24/19
Volatile Organic Compounds												
1,1-Dichloroethane	5	µg/L	ND	ND	1.4 U	ND	ND	0.14 U	ND	ND	0.14 U	ND
1,1-Dichloroethene	5	µg/L	ND	ND	1.8 J	ND	ND	0.14 U	ND	ND	0.14 U	ND
1,2-Dichloroethane	0.6	µg/L	ND	ND	3.1 UJ	ND	ND	0.31 U	ND	ND	0.31 UJ	ND
1,4-Dioxane	- -	µg/L	NA	NA	210 U	NA	NA	21 U	NA	NA	21 U	NA
2-Butanone (MEK)	50	µg/L	ND	ND	16 U	**390**	**240**	1.6 U	**160**	**130**	1.6 U	ND
Acetone	50	µg/L	ND	ND	20 U	ND	**350**	20 J	**180**	**190**	4.5 J	ND
Bromodichloromethane	50	µg/L	ND	ND	1.8 U	ND	ND	0.18 U	ND	ND	0.18 U	ND
Carbon Disulfide	60	µg/L	ND	ND	14 U	ND	ND	1.4 U	ND	ND	1.4 U	ND
Chlorodibromomethane	50	µg/L	ND	ND	2.2 U	ND	ND	0.22 U	ND	ND	0.22 U	ND
Chloroethane	5	µg/L	ND	ND	3.2 U	ND	ND	0.32 U	ND	ND	0.32 U	ND
Chloroform	7	µg/L	ND	ND	1.7 U	ND	ND	0.17 U	ND	ND	0.17 U	ND
Chloromethane	5	µg/L	ND	ND	5.2 U	ND	ND	0.52 U	ND	ND	0.52 U	ND
cis-1,2-Dichloroethene	5	µg/L	**2,800**	**15**	**810**	ND	ND	1.7	**120**	**78**	3.1	ND
Cyclohexane	- -	µg/L	ND	ND	NA	ND	ND	NA	ND	ND	NA	ND
Dichloromethane	5	µg/L	ND	ND	2.3 U	ND	ND	0.23 U	ND	ND	0.23 U	ND
Diethyl ether	- -	µg/L	NA	NA	1.8 U	NA	NA	0.18 U	NA	NA	0.18 U	NA
Di-isopropyl ether	- -	µg/L	NA	NA	1.3 U	NA	NA	0.13 U	NA	NA	0.13 U	NA
Methyl Acetate	- -	µg/L	ND	ND	4.5 U	ND	ND	0.45 U	ND	ND	0.45 U	ND
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/L	ND	ND	11 U	ND	ND	1.1 U	**64**	**110**	1.1 U	ND
Methylcyclohexane	- -	µg/L	ND	ND	3.2 J	ND	ND	0.24 U	ND	ND	0.24 U	ND
Tetrachloroethene	5	µg/L	**1,400**	2.4	**1,000**	ND	ND	1.7	**14**	ND	0.19 U	ND
Tetrahydrofuran	50	µg/L	NA	NA	4.9 U	NA	NA	1.5 J	NA	NA	0.49 U	NA
trans-1,2-Dichloroethene	5	µg/L	ND	ND	**11 J**	ND	ND	0.17 U	ND	ND	0.17 UJ	ND
Trichloroethene	5	µg/L	**960**	3.7	**490**	ND	ND	1.1	**55**	**37**	0.96 J	ND
Vinyl chloride	2	µg/L	**170**	ND	**76**	ND	ND	0.37 J	ND	ND	0.59 J	ND
Benzene	1	µg/L	ND	ND	2 U	ND	ND	**1.3**	ND	ND	0.36 J	ND
Toluene	5	µg/L	ND	ND	2.2 U	ND	ND	0.40 J	ND	ND	0.22 U	ND
Methyl-tert-butylether	10	µg/L	ND	ND	1.7 U	ND	ND	0.25 J	ND	ND	0.17 U	ND
Total VOCs	- -	µg/L	5,330	21	NA	390	590	NA	593	545	NA	ND
Dissolved Gases												
Ethane	- -	µg/L	NA	ND	27	NA	ND	14	ND	23	28	ND
Ethene	- -	µg/L	NA	ND	5.4 J	NA	ND	3 U	ND	ND	6.8 J	ND
Methane	- -	µg/L	NA	ND	1,400	NA	13,000	6,100	ND	7,100	8,100	ND
PFAS	**NYSDEC Maximum Contaminant Levels (MCL)**											
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maxim
J - Indicates an estimated value.
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2022 Q4 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID: / Date Collected:	NYSDEC Class GA Groundwater Standards	Units	MW-15 12/12/19	MW-15 11/30/22	MW-15BR 07/24/19	MW-15BR 12/12/19	MW-15BR 11/30/22	MW-16 07/24/19	MW-16 12/12/19	MW-16 12/01/22	MW-16BR 07/24/19	MW-16BR 12/12/19
Volatile Organic Compounds												
1,1-Dichloroethane	5	µg/L	ND	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND
1,1-Dichloroethene	5	µg/L	ND	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U	ND	ND
1,2-Dichloroethane	0.6	µg/L	ND	0.31 UJ	ND	ND	0.31 UJ	ND	ND	0.31 U	ND	ND
1,4-Dioxane	- -	µg/L	NA	21 U	NA	NA	21 U	NA	NA	21 U	NA	NA
2-Butanone (MEK)	50	µg/L	ND	1.6 U	ND	ND	1.6 U	ND	ND	1.6 U	ND	ND
Acetone	50	µg/L	ND	2 U	ND	ND	2 U	ND	ND	2 U	ND	ND
Bromodichloromethane	50	µg/L	ND	0.18 U	ND	ND	0.18 U	ND	ND	0.18 U	ND	ND
Carbon Disulfide	60	µg/L	ND	1.4 U	ND	ND	1.4 U	ND	ND	1.4 U	ND	ND
Chlorodibromomethane	50	µg/L	ND	0.22 U	ND	ND	0.22 U	ND	ND	0.22 U	ND	ND
Chloroethane	5	µg/L	ND	0.32 U	ND	ND	0.32 U	ND	ND	0.32 U	ND	ND
Chloroform	7	µg/L	ND	0.17 U	ND	ND	0.17 U	ND	ND	0.17 U	ND	ND
Chloromethane	5	µg/L	ND	0.52 U	ND	ND	0.52 U	ND	0.5	0.52 U	ND	0.5
cis-1,2-Dichloroethene	5	µg/L	ND	0.15 U	**42**	**17**	**43**	ND	ND	0.15 U	ND	ND
Cyclohexane	- -	µg/L	ND	NA	0.6	0.3	NA	ND	ND	NA	ND	ND
Dichloromethane	5	µg/L	ND	0.23 U	ND	ND	0.23 U	ND	ND	0.23 U	ND	ND
Diethyl ether	- -	µg/L	NA	0.18 U	NA	NA	0.18 U	NA	NA	0.18 U	NA	NA
Di-isopropyl ether	- -	µg/L	NA	0.13 U	NA	NA	0.13 U	NA	NA	0.13 U	NA	NA
Methyl Acetate	- -	µg/L	ND	0.45 U	ND	ND	0.45 U	ND	ND	0.45 U	ND	ND
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/L	ND	1.1 U	ND	ND	1.1 U	ND	ND	1.1 U	ND	ND
Methylcyclohexane	- -	µg/L	ND	0.24 U	ND	ND	0.24 U	ND	ND	0.24 U	ND	ND
Tetrachloroethene	5	µg/L	ND	0.19 U	ND	ND	0.19 U	ND	ND	0.19 U	ND	ND
Tetrahydrofuran	50	µg/L	NA	0.49 U	NA	NA	0.49 U	NA	NA	0.49 U	NA	NA
trans-1,2-Dichloroethene	5	µg/L	ND	0.17 UJ	ND	ND	0.17 UJ	ND	ND	0.17 U	ND	ND
Trichloroethene	5	µg/L	ND	0.19 U	0.9	0.8	2.0	ND	ND	0.52 J	ND	ND
Vinyl chloride	2	µg/L	ND	0.21 U	**32**	**12**	**16**	ND	ND	0.21 U	ND	ND
Benzene	1	µg/L	ND	0.2 U	0.7	ND	**1.4**	ND	ND	0.2 U	ND	ND
Toluene	5	µg/L	ND	0.22 U	ND	ND	0.22 U	ND	ND	0.22 U	ND	ND
Methyl-tert-butylether	10	µg/L	ND	0.17 U	1.2	0.6	0.45 J	ND	ND	0.17 U	ND	ND
Total VOCs	- -	µg/L	ND	NA	77	31	NA	ND	0.5	NA	ND	ND
Dissolved Gases												
Ethane	- -	µg/L	ND	2.6 U	ND	22	78	ND	ND	2.6 U	ND	ND
Ethene	- -	µg/L	ND	3 U	ND	470	39	ND	ND	3 U	ND	ND
Methane	- -	µg/L	2.9	30 U	ND	5,200	4,200	ND	ND	1.2 U	ND	ND
PFAS	**NYSDEC Maximum Contaminant Levels (MCL)**											
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
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Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maxim
J - Indicates an estimated value.
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2022 Q4 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID: / Date Collected:	NYSDEC Class GA Groundwater Standards	Units	MW-16BR 12/01/22	MW-17 07/24/19	MW-17 12/13/19	MW-17 12/01/22	MW-17BR 07/24/19	MW-17BR 12/13/19	MW-17BR 12/01/22	Equipment Blank 12/01/22 EQ- 120122
Volatile Organic Compounds										
1,1-Dichloroethane	5	µg/L	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U	NA
1,1-Dichloroethene	5	µg/L	0.14 U	ND	ND	0.14 U	ND	ND	0.14 U	NA
1,2-Dichloroethane	0.6	µg/L	0.31 U	ND	ND	0.31 U	ND	ND	0.31 U	NA
1,4-Dioxane	- -	µg/L	21 U	NA	NA	21 U	NA	NA	21 U	NA
2-Butanone (MEK)	50	µg/L	1.6 U	ND	ND	1.6 U	ND	ND	1.6 U	NA
Acetone	50	µg/L	2.1 J	ND	ND	2 U	ND	ND	2 U	NA
Bromodichloromethane	50	µg/L	0.18 U	ND	ND	0.18 U	ND	ND	0.18 U	NA
Carbon Disulfide	60	µg/L	1.4 U	ND	ND	1.4 U	ND	0.6	1.4 U	NA
Chlorodibromomethane	50	µg/L	0.22 U	ND	ND	0.22 U	ND	ND	0.22 U	NA
Chloroethane	5	µg/L	0.32 U	ND	ND	0.32 U	ND	ND	0.32 U	NA
Chloroform	7	µg/L	0.17 U	ND	ND	0.17 U	ND	ND	0.17 U	NA
Chloromethane	5	µg/L	0.52 U	ND	ND	0.52 U	ND	ND	0.52 U	NA
cis-1,2-Dichloroethene	5	µg/L	0.15 U	ND	ND	0.15 U	ND	ND	0.15 U	NA
Cyclohexane	- -	µg/L	NA	ND	ND	NA	ND	ND	NA	NA
Dichloromethane	5	µg/L	0.23 U	ND	ND	0.23 U	ND	ND	0.23 U	NA
Diethyl ether	- -	µg/L	0.18 U	NA	NA	0.18 U	NA	NA	0.18 U	NA
Di-isopropyl ether	- -	µg/L	0.13 U	NA	NA	0.13 U	NA	NA	0.13 U	NA
Methyl Acetate	- -	µg/L	0.45 U	ND	ND	0.45 U	ND	ND	0.45 U	NA
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/L	1.1 U	ND	ND	1.1 U	ND	ND	1.1 U	NA
Methylcyclohexane	- -	µg/L	0.24 U	ND	ND	0.24 U	ND	ND	0.24 U	NA
Tetrachloroethene	5	µg/L	0.19 U	ND	ND	0.19 U	ND	ND	0.19 U	NA
Tetrahydrofuran	50	µg/L	0.49 U	NA	NA	0.49 U	NA	NA	0.49 U	NA
trans-1,2-Dichloroethene	5	µg/L	0.17 U	ND	ND	0.17 U	ND	ND	0.17 U	NA
Trichloroethene	5	µg/L	0.19 U	ND	ND	0.19 U	ND	ND	0.19 U	NA
Vinyl chloride	2	µg/L	0.21 U	ND	ND	0.21 U	ND	ND	0.21 U	NA
Benzene	1	µg/L	0.2 U	ND	ND	0.2 U	ND	ND	0.2 U	NA
Toluene	5	µg/L	0.22 U	ND	ND	0.22 U	ND	ND	0.22 U	NA
Methyl-tert-butylether	10	µg/L	0.17 U	ND	ND	0.17 U	ND	ND	0.17 U	NA
Total VOCs	- -	µg/L	NA	ND	ND	NA	ND	ND	NA	NA
Dissolved Gases										
Ethane	- -	µg/L	2.6 U	ND	ND	2.6 U	ND	ND	2.6 U	NA
Ethene	- -	µg/L	3 U	ND	ND	3 U	ND	ND	3 U	NA
Methane	- -	µg/L	1.2 U	ND	ND	1.2 U	ND	ND	1.2 U	NA
PFAS	**NYSDEC Maximum Contaminant Levels (MCL)**									
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluorobutane sulfonic acid (PFBS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluorobutanoic acid (PFBA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	6.36 U
Perfluorodecanoic acid (PFDA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluoroheptane sulfonic acid (PFHpS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluoroheptanoic acid (PFHpA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluorohexane sulfonic acid (PFHxS)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluorohexanoic acid (PFHxA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluorononanoic acid (PFNA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluorooctane sulfonamide (PFOSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluorooctane sulfonic acid (PFOS)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluorooctanoic acid (PFOA)	10	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluoropentane sulfonic acid (PFPeSA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	1.59 U
Perfluoropentanoic acid (PFPeA)	- -	ng/L	NA	NA	NA	NA	NA	NA	NA	3.18 U

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maxim
J - Indicates an estimated value.
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 4
Proposed 2023 Q1 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Well ID	VOCs Method 8260
MW-1R	X[(a)]
MW-2	X[(a)]
MW-5	X[(a)]
MW-7	X[(a)]
MW-8	X[(a)]
MW-9	X[(a)]
MW-10	X[(a)]
MW-10BR	X[(a)]
MW-11	X[(a)]
MW-12	X[(a)]
MW-13	X[(a)]
MW-14	X[(a)]
MW-14BR	X[(a)]
MW-15	X[(a)]
MW-15BR	X[(a)]
MW-16	X[(a)]
MW-16BR	X[(a)]
MW-17	X[(a)]
MW-17BR	X[(a)]
IW-1	X[(a)]
IW-2	X[(a)]
IW-3	X[(a)]
IW-4	
IW-5	
IW-6	
IW-7	X[(a)]
IW-8	
IW-9	
IW-10	
IW-11	X[(a)]
IW-12	
IW-13	
IW-14	X[(a)]
IW-15	
IW-16	
IW-17	X[(a)]
IW-18	
IW-19	X[(a)]
IW-20	
IW-21	
IW-22	
IW-23	
IW-24	X[(a)]
IW-25	X[(a)]
IW-26	
IW-27	
IW-28	
IW-29	X[(a)]
IW-30	
IW-31	X[(a)]

Notes:
(a) Sampled using passive diffusion bags.

APPENDIX A

Field Sampling Logs

ARCADIS

Groundwater Sampling Form

Project No. 30135043 Well ID IU-17

Project Name/Location: Breverton Jacobs Drycleaning

Page 1 of 1

Date 11-29-22

Weather 45, Cloudy

Measuring Pt. Description TIC

Screen Setting (ft-bmp) 11-21

Casing Diameter (in.) 2"

Well Material X PVC ___ SS

Static Water Level (ft-bmp) 2.14

Total Depth (ft-bmp) 22.91

Water Column/ Gallons in Well 20.77/3.38

MP Elevation ___

Pump Intake (ft-bmp) ~16

Purge Method: Peri

Centrifugal ___ Submersible ___ Other ___

Sample Method: Low Flow

Pump On/Off 0846/1000

Volumes Purged ___

Sample Time: Label 0955 Start 0951 End 1000

Replicate/ Code No. ___

Sampled by DM

PID: 0.0

Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0850	5	200	4.73	1.25	6.93	2.14	642	1.42	10.6	-105.3	milky	none
0855	10	~250	8.13	2.5	7.01	2.06	>1000	0.76	10.6	-120.0	"	"
0900	15	250	9.24	3.75	7.04	1.91	>1000	0.59	10.7	-127.4	"	"
0905	20	250	10.78	5	7.08	1.83	>1000	0.46	10.7	-136.1	"	"
0910	25	250	11.35	6.25	7.03	1.72	>1000	0.39	10.8	-132.0	"	"
0915	30	250	11.56	7.5	7.00	1.68	>1000	0.38	10.7	-129.7	"	"
0920	35	250	11.20	8.75	6.96	1.62	>1000	0.36	10.8	-127.3	"	"
0925	40	250	11.16	10	6.97	1.62	>1000	0.32	10.8	-128.6	"	"
0930	45	250	11.12	11.25	6.95	1.58	>1000	0.32	10.7	-127.3	"	"
0935	50	250	11.06	12.5	6.92	1.55	>1000	0.31	10.8	-125.2	"	"
0940	55	250	11.10	13.75	6.93	1.56	>1000	0.30	10.8	-126.2	"	"
0945	60	250	11.12	15.0	6.93	1.54	>1000	0.29	10.8	-123.9	"	"
0950	65	250	11.10	16.25	6.91	1.53	>1000	0.28	10.8	-124.4	"	"

Constituents Sampled	Container	Number	Preservative
VOC	40mL VOA	2	HCl
Dissolved Gas	"	3	HCl
MS/MSD			
DUP-112922-02			

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Woods

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Y

Well Locked at Departure: Y

Key Number To Well: 2537

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID MW-12 Date 12-1-22

Project Name/Location: Brewster Jacobs Dry Cleaners Weather 30° Cloudy

Measuring Pt. Description: TIC Screen Setting (ft-bmp): 4-14 Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 2.74 Total Depth (ft-bmp): 12.09 Water Column/ Gallons in Well: 9.31 / 1.52

MP Elevation: ___ Pump Intake (ft-bmp): ~10' Purge Method: Peri Sample Method: Low Flow

Pump On/Off: 1005/1055 Volumes Purged: ___ Centrifugal ___ Submersible ___ Other ___

Sample Time: Label 1050 Start ___ End ___ Replicate/ Code No. ___ Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1010	5	250	4.53	1.25	6.90	1.15	429	0.34	8.6	-89.5	Blackish [redacted]	none
1015	10	250	4.91	2.5	6.88	1.19	348	0.20	9.6	-110.9	"	"
1020	15	250	5.04	3.75	6.86	1.26	155	0.19	10.5	-119.8	"	"
1025	20	250	5.05	5	6.87	1.29	101	0.32	10.8	-125.0	"	"
1030	25	250	5.06	6.25	6.88	1.30	72.4	0.22	10.8	-127.4	"	"
1035	30	250	5.06	7.5	6.89	1.31	64.0	0.17	10.8	-130.7	Clear w/ Black Flakes	"
1040	35	250	5.06	8.75	6.88	1.31	47.1	0.16	10.9	-131.5	"	"
1045	40	250	5.06	10	6.88	1.32	46.3	0.16	10.9	-132.3	"	"
1050	45	250	5.06	11.25	6.89	1.32	44.8	0.15	10.9	-132.9	"	"

Constituents Sampled	Container	Number	Preservative
PFAS 40 comp, 1633	500 mL Plastic	None 3	None
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	"	2	HCl
MS/MSD 3 for PFAS	QA/QC		
DUP-120122 3			

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewster NY

Condition of Well: Good

Well Completion: Flush Mount / (Stick Up)

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well: 2837

6/30/2017

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID: IW-25 Date: 11/29/22

Project Name/Location: Jacks Cleaners / Brewerton Weather: 50s, Cloudy

Measuring Point (MP) Description: Top of Casing Screen Setting (ft-bmp): 9-19 Casing Diameter (in.): 2 in Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 0.64 Total Depth (ft-bmp): 18.88 Water Column (feet): 18.24

MP Elevation: ___ Pump Intake (ft-bmp): ~14' Gallons in Well: 2.97

Pump On/Off: 1015/1150 Volumes Purged: 1.62 Purge Method: Low Flow Sample Method: Low Flow

Centrifugal: ___ Submersible: ___ Other: ___

Sample Time: Label 1140 Start ___ End ___ Replicate/ Code No.: ___ Sampled by: MB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1015	0	200	0.64	0.0	6.69	0.955	101	0.88	10.4	-39.5	clear	None
1020	05	200	1.52	0.3	6.70	1.680	707	0.22	10.5	-51.0	Milky	"
1025	10	200	1.53	0.6	6.73	1.714	503	0.16	10.6	-69.7	Milky	"
1030	15	200	1.56	0.9	6.82	1.776	389	0.12	10.7	-69.5	"	"
1035	20	200	1.57	1.2	6.83	1.843	203	0.10	10.7	-73.8	"	"
1040	25	200	1.58	1.5	6.86	1.900	148	0.09	10.7	-72.7	"	"
1045	30	200	1.60	1.8	6.87	1.942	132	0.09	10.7	-80.4	"	"
1050	35	200	1.61	2.1	6.89	1.960	124	0.08	10.8	-84.1	"	"
1055	40	200	1.61	2.4	6.90	1.948	98.3	0.08	10.8	-86.9	clear	"
1100	45	200	1.62	2.7	6.90	1.937	70.7	0.07	10.9	-90.4	"	"
1105	50	200	1.62	3.0	6.89	1.931	63.8	0.07	10.9	-92.9	"	"
1110	55	200	1.62	3.3	6.86	1.920	56.0	0.06	10.9	-95.6	"	"
1115	60	200	1.63	3.6	6.87	1.921	56.8	0.07	10.9	-98.7	"	"
1120	65	200	1.63	3.9	6.88	1.915	57.3	0.07	10.9	-100.2	"	"
1125	70	200	1.63	4.2	6.90	1.954	48.5	0.07	10.9	-101.1	"	"
1130	75	200	1.64	4.5	6.93	1.977	46.8	0.07	10.9	-103.4	"	"
1135	80	200	1.63	4.8	6.95	1.989	46.4	0.07	10.9	-105.7	"	"

Constituents Sampled	Container	Number	Preservative
8260 Standard Dissolved Gasses	40 mL Vial	2	HCl
8260 Standard	40mL Vial	2	HCl
DUP: DUP-112922-1			

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton NY Well Locked at Arrival: yes

Condition of Well: Good Well Locked at Departure: yes

Well Completion: Flush Mount / Stick Up Key Number To Well: —

ARCADIS

Groundwater Sampling Form

Project No. 30135043 Well ID: IW-29 Date: 11/29/22

Project Name/Location: Jacks Dry Cleaners Weather: 50s, cloudy

Measuring Point (MP) Description: Top of Casing

Screen Setting (ft-bmp): 10.5-20.5

Casing Diameter (in.): 2

Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 3.98

Total Depth (ft-bmp): 19.71

Water Column (feet): 15.73

Gallons in Well: 2.56

MP Elevation: ___

Pump Intake (ft-bmp): ~15'

Purge Method: Low Flow

Centrifugal: ___

Submersible: ___

Other: ___

Sample Method: Low Flow

Pump On/Off: 0835/0950

Volumes Purged: 1.41

Sample Time: Label 0940

Start ___

End ___

Replicate/ Code No.: ___

Sampled by: KB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0835	0	200	3.98	0.0	6.65	0.948	384	2.04	12.0	-34.3	Brown	none
0840	5	200	5.93	0.3	6.65	0.967	293	1.53	12.1	-39.7	"	"
0845	10	200	7.21	0.6	6.66	0.984	76.7	0.78	12.1	-42.8	"	"
0850	15	200	8.73	0.9	6.67	1.009	51.6	0.45	12.2	-46.4	clear	"
0855	20	200	8.71	1.2	6.65	0.981	71.6	1.4	11.6	-61.7	"	"
0900	25	200	8.72	1.5	6.65	0.973	52.3	1.2	11.6	-63.4	"	"
0905	30	200	8.72	1.8	6.64	0.964	41.4	1.2	11.7	-65.3	"	"
0910	35	200	8.73	2.1	6.63	0.960	36.3	1.1	11.7	-67.1	"	"
0915	40	200	8.72	2.4	6.63	0.950	24.7	0.77	11.6	-69.4	"	"
0920	45	200	8.70	2.7	6.63	0.939	14.9	0.10	11.6	-70.6	"	"
0925	50	200	8.68	3.0	6.63	0.938	12.6	0.10	11.7	-70.9	"	"
0930	55	200	8.68	3.3	6.63	0.937	10.4	0.10	11.7	-71.8	"	"
0935	60	200	8.69	3.6	6.63	0.937	9.6	0.10	11.7	-72.3	"	"
0940	Sample											

Constituents Sampled	Container	Number	Preservative
8260 Standard Dissolved Gases	40mL Vial	2	HCl
8260 Standard	40mL Vial	2	HCl
MS/MSD: IW-29MS, IW-29MSD			

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: —

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID MW-07 Date 12-1-22

Project Name/Location: Brewster Jacks Dry Cleaners Weather 32 Cloudy

Well Material X PVC ___ SS

Measuring Pt. Description TIC Screen Setting (ft-bmp) ___ Casing Diameter (in.) 2"

Static Water Level (ft-bmp) 2.48 Total Depth (ft-bmp) 19.20 Water Column/ Gallons in Well 16.72 / 2.73

MP Elevation ___ Pump Intake (ft-bmp) ~15' Purge Method: Peri Sample Method: Low Flow

Pump On/Off 1150 Volumes Purged ___ Centrifugal ___ Submersible ___ Other ___

Sample Time: Label 1240 Start ___ End ___ Replicate/ Code No. ___ Sampled by DN

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1155	5	250	2.68		6.77	1.40	428	0.46	11.8	-89.7	Clear	Yes
1200	10	250	2.70		6.74	1.40	24.7	0.30	11.7	-95.9	"	"
1205	15	250	2.74		6.76	1.40	11.9	0.24	11.8	-102.7	"	"
1210	20	250	2.76		6.77	1.41	14.3	0.20	11.8	-109.0	"	"
1215	25	250	2.77		6.79	1.41	9.80	0.17	11.8	-111.1	"	"
1220	30	250	2.77		6.78	1.41	7.25	0.18	11.7	-114.2	"	"
1225	35	250	2.77		6.79	1.41	7.02	0.16	11.7	-115.7	"	"
1230	40	250	2.77		6.78	1.40	6.21	0.15	11.6	-117.3	"	"
1235	45	250	2.77		6.79	1.41	5.97	0.15	11.7	-118.4	"	"

Constituents Sampled	Container	Number	Preservative
S-PFAS 1633	500 mL Plastic	3	None
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewster Nat

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well: ___

5/30/2017

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID MW-2 Date 12-1-22

Project Name/Location: Brewerton Jacks Dry Cleaners Weather 30 & Cloudy

Measuring Pt. Description: TIC Screen Setting (ft-bmp): Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 1.56 Total Depth (ft-bmp): 14.18 Water Column/ Gallons in Well: 12.62/2.06

MP Elevation: Pump Intake (ft-bmp): ~10' Purge Method: Sample Method: Low Flow

Pump On/Off: 0825/0915 Volumes Purged: Centrifugal / Submersible / Other

Sample Time: Label 0910, Start, End Replicate/ Code No. Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0830	5	250	1.65	1.25	7.68	2.34	101	8.14	11.1	170.2	Milky	None
0835	10	250	1.66	2.5	7.68	2.38	92.4	8.03	11.4	170.9	"	"
0840	15	250	1.66	3.75	7.67	2.39	50.1	7.98	11.4	171.4	Clear	"
0845	20	250	1.67	5	7.67	2.39	31.3	7.93	11.4	171.7	"	"
0850	25	250	1.67	6.25	7.68	2.39	23.2	7.92	11.5	171.6	"	"
0855	30	250	1.68	7.5	7.67	2.39	17.7	7.87	11.4	171.2	"	"
0900	35	250	1.68	8.75	7.68	2.40	14.9	7.81	11.3	171.4	"	"
0905	40	250	1.68	10	7.67	2.41	13.8	7.83	11.4	171.8	"	"

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: VC Brewerton, NY

Condition of Well: Good No Flushmount

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes No

Well Locked at Departure: Yes No

Key Number To Well:

ARCADIS

Groundwater Sampling Form

Project No. 30135043

Project Name/Location: Brewerton Tanks cleaners

Well ID: MW-16

Page 1 of 1

Date: 12/1/22

Weather: 30s, Cloudy

Measuring Point (MP) Description: Top of Casing

Static Water Level (ft-bmp): 7.14

MP Elevation:

Pump On/Off: 1240/1345

Sample Time: Label 1325 Start End

Screen Setting (ft-bmp):

Total Depth (ft-bmp): 24.80

Pump Intake (ft-bmp): ~17'

Volumes Purged:

Replicate/ Code No.:

Casing Diameter (in.): 2in

Water Column (feet): 17.66

Gallons in Well: 2.87

Purge Method: Low Flow

Centrifugal:

Submersible:

Other:

Well Material: X PVC ___ SS

Sample Method: Low Flow

Sampled by: MB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1240	0	—	7.14	0	7.75	0.032	87.4	3.83	9.8	94.9	Clear	None
1245	5	200	7.59	0.3	7.72	0.228	70.8	3.51	8.3	90.2	"	"
1250	10	200	2.68	0.6	7.67	0.541	55.6	3.42	7.4	86.5	"	"
1255	15	200	8.42	0.9	7.63	0.539	27.8	3.11	9.5	85.3	"	"
1300	20	200	9.71	1.2	7.57	0.513	24.9	2.56	10.7	84.7	"	"
1305	25	200	10.37	1.5	7.64	0.517	24.2	3.31	9.1	89.9	"	"
1310	30	200	10.89	1.8	7.66	0.528	22.7	3.50	8.3	89.9	"	"
1315	35	200	10.93	2.1	7.67	0.542	10.1	3.90	8.1	89.7	"	"
1320	40	200	10.95	2.4	7.67	0.549	9.3	3.42	8.2	89.7	"	"
Sample	1325	200	10.96	2.7	7.64	0.559	7.7	4.24	8.2	89.4	"	"

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well: 7577

ARCADIS

Groundwater Sampling Form

Project No. 30138043 Well ID: MW-16BR Date: 12/1/22

Project Name/Location: Brewerton Jacks Cleaners Weather: 30s, cloudy

Measuring Point (MP) Description: Top of Casing

Screen Setting (ft-bmp): ~~34'~~

Casing Diameter (in.): 2 in

Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 8.73

Total Depth (ft-bmp): 40.34

Water Column (feet): 31.61

Gallons in Well: 5.15

MP Elevation: ___

Pump Intake (ft-bmp): ~34'

Purge Method: Low Flow

Centrifugal: ___

Submersible: ___

Other: ___

Sample Method: Low Flow

Pump On/Off: 1105/1230

Volumes Purged: 0.82

Sample Time: Label 1220

Start ___

End ___

Replicate/ Code No.: ___

Sampled by: KB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1105	0	~~8~~	8.73	0	7.60	0.033	110	1.37	10.5	83.3	clear	none
1110	5	200	11.34	0.3	7.25	0.322	48.5	3.63	10.3	77.6	"	"
1115	10	200	16.79	0.6	7.76	0.016	27.7	8.84	8.2	82.9	"	"
1120	15	200	19.57	0.9	7.85	0.007	20.9	6.79	8.0	88.0	"	"
1125	20	200	20.44	1.2	7.74	0.011	17.8	6.70	8.0	87.9	"	"
1130	25	200	17.15	1.5	7.68	0.016	15.7	6.66	8.0	87.9	"	"
1135	30	200	19.61	1.8	7.61	0.151	11.8	6.87	7.8	89.3	"	"
1140	35	200	20.03	2.1	7.58	0.341	10.4	7.14	6.7	91.3	"	"
1145	40	200	20.37	2.4	7.58	0.341	10.2	6.91	6.6	91.7	"	"
1150	45	200	20.61	2.7	7.56	0.343	10.0	6.74	6.5	92.7	"	"
1155	50	200	21.03	3.0	7.56	0.327	9.6	6.61	6.5	94.1	"	"
1200	55	200	21.40	3.3	7.56	0.314	9.4	6.57	6.5	95.6	"	"
1205	60	200	21.79	3.6	7.57	0.321	9.1	6.52	6.5	96.3	"	"
1210	65	200	21.84	3.9	7.54	0.339	9.0	6.50	6.5	97.0	"	"
1215	70	200	21.85	4.2	7.61	0.330	9.0	6.48	6.5	98.1	"	"
1220	Sample											

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well: 7337

ARCADIS

Groundwater Sampling Form

Project No. 30135043 Well ID: MW-17BR Date: 12/11/18

Project Name/Location: Brewerton Suds Cleaners Weather: 30s. Cloudy

Measuring Point (MP) Description: Top of Casing

Screen Setting (ft-bmp):

Casing Diameter (in.):

Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 9.48

Total Depth (ft-bmp): 30.53

Water Column (feet): 21.05

Gallons in Well: 3.43

MP Elevation:

Pump Intake (ft-bmp): ~24'

Purge Method: Low Flow

Centrifugal:

Submersible:

Other:

Sample Method: Low Flow

Pump On/Off: 0940/1055

Volumes Purged:

Sample Time: Label 1045

Start

End

Replicate/ Code No.:

Sampled by: KB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0940	0	—	9.48	0	7.64	0.007	103	8.08	8.2	115.6	clear	none
0945	5	200	13.89	0.3	7.74	0.210	59.7	5.03	10.8	103.0	"	"
0950	10	200	16.71	0.6	7.81	0.467	36.1	3.66	11.0	92.6	"	"
0955	15	200	17.11	0.9	7.80	0.521	24.8	2.90	10.8	69.7	"	"
1000	20	200	17.38	1.2	7.78	0.615	17.6	1.18	10.5	35.9	"	"
1005	25	200	17.71	1.5	7.78	0.597	10.4	0.91	10.5	3.3	"	"
1010	30	200	18.03	1.8	7.77	0.581	8.6	0.62	10.5	-22.7	"	"
1015	35	200	18.15	2.1	7.77	0.590	8.0	0.54	10.4	-25.6	"	"
1020	40	200	18.31	2.4	7.75	0.594	7.8	0.44	10.4	-29.4	"	"
1025	45	200	18.35	2.7	7.76	0.598	7.4	0.39	10.5	-34.8	"	"
1030	50	200	18.42	3.0	7.76	0.594	7.0	0.36	10.6	-37.1	"	"
1035	55	200	18.47	3.3	7.76	0.593	6.9	0.34	10.6	-39.3	"	"
1040	60	200	18.49	3.6	7.76	0.592	6.9	0.32	10.6	-42.1	"	"
1045	Sample											

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	"

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: 2537

ARCADIS

Groundwater Sampling Form

Project No. 30135043 Well ID: MW-17 Date: 12/1/22

Project Name/Location: Brewerton Berks Cleaners Weather: 30s, Cloudy

Measuring Point (MP) Description: Top of Casing

Screen Setting (ft-bmp):

Casing Diameter (in.): 2"

Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 5.37

Total Depth (ft-bmp): 19.95

Water Column (feet): 14.58

Gallons in Well: 2.38

MP Elevation:

Pump Intake (ft-bmp): ~12.5

Purge Method: Low Flow

Centrifugal:

Submersible:

Other:

Sample Method: Low Flow

Pump On/Off: 0810 / 0940

Volumes Purged: 1.89

Sample Time: Label 0930

Start

End

Replicate/ Code No.:

Sampled by: KB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0810	0	—	5.37	0.0	6.91	0.033	478	2.62	10.5	84.8	LBrown	None
0815	5	200	7.03	0.3	6.94	0.024	321	2.13	10.5	93.4	"	"
0820	10	200	8.51	0.6	6.95	0.017	158	1.71	10.6	98.7	"	"
0825	15	200	9.63	0.9	6.98	0.016	93.8	1.56	10.5	103.9	Clear	"
0830	20	200	9.94	1.2	6.99	0.015	84.7	1.42	10.4	106.6	"	"
0835	25	200	10.41	1.5	7.11	0.014	51.9	1.61	10.7	106.5	"	"
0840	30	200	11.76	1.8	7.25	0.013	37.1	1.72	10.9	106.3	"	"
0845	35	200	12.88	2.1	7.28	0.014	31.1	1.80	11.0	105.4	"	"
0850	40	200	14.21	2.4	7.29	0.014	28.5	1.90	11.0	104.9	"	"
0855	45	200	14.44	2.7	7.39	0.014	26.3	2.31	11.1	103.1	"	"
0900	50	200	14.67	3.0	7.44	0.015	22.5	2.97	11.1	102.0	"	"
0905	55	200	14.83	3.3	7.53	0.015	21.3	3.00	10.5	104.7	"	"
0910	60	200	14.93	3.6	7.59	0.015	20.1	3.03	10.1	109.8	"	"
0915	65	200	14.94	3.9	7.60	0.015	19.3	3.03	9.9	110.8	"	"
0920	70	200	14.95	4.2	7.60	0.015	17.9	3.03	9.9	113.7	"	"
0925	75	200	14.97	4.5	7.61	0.015	16.5	3.03	9.8	115.6	"	"
0930 Sample												

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	"

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton NY

Condition of Well: good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well: 2537

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID: IW-2 Date: 11/30/22

Project Name/Location: Brewerton Jacks Cleaners Weather: 40s, Rainy

Measuring Point (MP) Description: Top of Casing

Screen Setting (ft-bmp):

Casing Diameter (in.): 2in

Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 2.37

Total Depth (ft-bmp): 19.54

Water Column (feet): 17.17

Gallons in Well: 2.79

MP Elevation:

Pump Intake (ft-bmp): @ 13

Purge Method: Low Flow

Centrifugal:

Submersible:

Other:

Sample Method: Low Flow

Pump On/Off: 1355/1525

Volumes Purged:

Sample Time: Label MS15

Start

End

Replicate/ Code No.:

Sampled by: KB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1355	0	—	2.37	0	6.72	0.863	71000	0.13	11.7	-53.0	Brown	None
1400	5	200	6.71	0.3	6.70	0.880	157	0.17	11.7	-79.3	clear	None
1405	10	200	12.87	0.6	6.64	0.884	84.3	0.21	11.7	-96.8	"	"
1410	15	200	9.24	0.9	6.81	0.880	93	2.80	11.6	-90.2	"	"
1415	20	200	8.37	1.2	6.98	0.894	114	6.52	11.4	-85.3	"	"
1420	25	200	8.42	1.5	7.03	1.061	100	7.04	11.3	-82.7	"	"
1425	30	200	8.56	1.8	7.18	1.224	96.1	7.82	11.2	-79.1	"	"
1430	35	200	8.58	2.1	7.22	1.127	94.9	8.01	11.0	-84.5	"	"
1435	40	200	8.61	2.4	7.28	0.914	94.3	8.18	10.8	-88.1	"	"
1440	45	200	8.61	2.7	7.31	0.920	77.6	8.18	10.8	-95.1	"	"
1445	50	200	8.63	3.0	7.32	0.924	67.2	8.19	10.8	-94.2	"	"
1450	55	200	8.63	3.3	7.38	0.917	60.4	8.50	10.0	-101.3	"	"
1455	60	200	8.65	3.6	7.44	0.907	55.8	8.69	10.0	-112.1	"	"
1500	65	200	8.64	3.9	7.40	0.911	42.7	8.80	10.0	-117.5	"	"
1505	70	200	8.65	4.2	7.42	0.915	40.5	8.92	10.0	-117.7	"	"
1510	75	200	8.66	4.5	7.46	0.913	41.5	8.95	10.1	-116.5	"	"
1515	Sample											

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	"

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton, NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well:

ARCADIS

Groundwater Sampling Form

Project No. 30135043 Well ID: IW-1 Date: 11/30/22

Project Name/Location: Brewerton Jacks cleaners Weather: 40s, Rainy

Measuring Point (MP) Description: Top of Casing
Screen Setting (ft-bmp):
Casing Diameter (in.): 2.0
Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 3.48
Total Depth (ft-bmp): 19.81
Water Column (feet): 16.33
Gallons in Well: 2.67

MP Elevation:
Pump Intake (ft-bmp): 2.13'
Purge Method: Low Flow (Centrifugal: ___ Submersible: ___ Other: ___)
Sample Method: Low Flow

Pump On/Off: 1205/1340
Volumes Purged: 1.80

Sample Time: Label 1330 Start ___ End ___
Replicate/ Code No.:
Sampled by: MB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1205	0	-	3.48	0	7.10	1.265	162	0.40	10.0	-95.2	clear	none
1210	5	200	5.44	0.3	7.00	1.289	213	0.22	10.9	-99.8	"	"
1215	10	200	6.74	0.6	6.95	1.304	277	0.07	11.4	-102.1	"	"
1220	15	200	6.93	0.9	6.94	1.300	577	0.06	11.6	-104.9	cloudy	"
1225	20	200	8.04	1.2	6.92	1.299	848	0.04	11.6	-106.3	"	"
1230	25	200	8.04	1.5	6.90	1.342	673	0.05	11.6	-106.8	"	"
1235	30	200	8.04	1.8	6.88	1.411	585	0.06	11.7	-107.1	"	"
1240	35	200	8.05	2.1	6.87	1.388	380	0.07	11.7	-105.8	"	"
1245	40	200	8.07	2.4	6.85	1.368	233	0.08	11.7	-103.9	"	"
1250	45	200	8.07	2.7	6.86	1.352	275	0.08	11.7	-103.0	"	"
1255	50	200	8.08	3.0	6.88	1.341	220	0.08	11.7	-102.5	clear	"
1300	55	200	8.08	3.3	6.89	1.329	187	0.08	11.7	-100.5	"	"
1305	60	200	8.09	3.6	6.90	1.300	120	0.07	11.7	-97.3	"	"
1310	65	200	8.09	3.9	6.92	1.301	39.7	0.08	11.7	-96.5	"	"
1315	70	200	8.08	4.2	6.93	1.303	32.6	0.08	11.7	-96.1	"	"
1320	75	200	8.08	4.5	6.93	1.298	35.4	0.08	11.7		"	"
1325	80	200	8.09	4.8	6.94	1.300	35.2	0.08	11.7		"	"

1330 Sample

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton NY
Condition of Well: Good
Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: 2537

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID: MW-15BR Date: 11/30/22

Project Name/Location: Brewerton Scales Cleaners Weather: 40s, Rainy

Measuring Point (MP) Description: Top of Casing

Screen Setting (ft-bmp):

Casing Diameter (in.): 2in

Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 5.29

Total Depth (ft-bmp): 32.63

Water Column (feet): 27.34

Gallons in Well: 4.46

MP Elevation:

Pump Intake (ft-bmp): ~25

Purge Method: Low Flow

Centrifugal:

Submersible:

Other:

Sample Method: Low Flow

Pump On/Off: 1045/1155

Volumes Purged:

Sample Time: Label 1145

Start

End

Replicate/ Code No.:

Sampled by: WB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1045	0	—	5.24	0	6.99	1.501	89.4	0.17	10.7	19.8	Clear	None
1050	5	200	12.43	0.3	7.15	1.039	81.6	1.80	10.9	1.4	"	"
1055	10	200	17.75	0.6	7.34	~~0.0634~~ 0.634	76.0	3.85	11.6	-39.5	"	"
1100	15	200	20.81	2.9	7.19	0.893	69.9	2.03	10.9	-39.3	"	"
1105	20	200	22.91	1.2	6.99	1.175	58.1	1.44	10.6	-37.8	"	"
1110	25	200	21.56	1.5	6.95	1.230	55.1	0.97	10.5	-41.6	"	"
1115	30	200	20.98	1.5	6.91	1.469	50.3	0.69	10.5	-45.9	"	"
1120	35	200	20.48	2.1	6.91	1.498	41.5	0.77	10.7	-46.5	"	"
1125	40	200	20.13	2.4	6.91	1.571	39.6	0.54	10.8	-53.6	"	"
1130	45	200	19.98	2.7	6.89	1.584	39.1	0.55	10.8	-57.3		
1135	50	200	19.93	3.0	6.88	1.615	37.5	0.57	10.8	-62.9		
1140	55	200	19.90	3.3	6.88	1.630	36.7	0.59	10.8	-64.7		
1145	Sample											

Constituents Sampled	Container	Number	Preservative
8260 VOC	40 mL VOA	2	HCl
RSK-175 Dissolved Gas	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well: 1537

ARCADIS

Groundwater Sampling Form

Project No. 30135043 | Well ID: MW-15 | Date: 11/30/22

Project Name/Location: Brewerton Jacks Cleaners | Weather: 40s, Cloudy

Measuring Point (MP) Description: Top of Casing | Screen Setting (ft-bmp): [illegible] | Casing Diameter (in.): 2in | Well Material: X PVC / ___ SS

Static Water Level (ft-bmp): 4.15 | Total Depth (ft-bmp): 17.97 | Water Column (feet): 13.82 | Gallons in Well: 2.25

MP Elevation: ___ | Pump Intake (ft-bmp): ~11 | Purge Method: Low Flow | Centrifugal: ___ | Submersible: ___ | Other: ___ | Sample Method: Low Flow

Pump On/Off: 0940/1045 | Volumes Purged: 1.47

Sample Time: Label 1035 | Start ___ | End ___ | Replicate/ Code No.: ___ | Sampled by: UB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0940	0	—	4.15	0.3	6.85	0.0196	419	5.5	10.8	59.5	clear	None
0945	5	200	5.86	0.6	6.71	0.2424	284	3.7	11.0	63.8	"	"
0950	10	200	6.51	0.9	6.56	0.2481	130	0.22	11.1	69.5	"	"
0955	15	200	7.09	1.2	6.61	0.2941	93.9	0.19	11.1	60.3	"	"
1000	20	200	7.53	1.5	6.78	0.3253	56.4	0.15	11.3	55.4	"	"
1005	25	200	7.67	1.8	6.84	0.3397	38.7	0.18	11.3	52.1	"	"
1010	30	200	7.89	2.1	6.88	0.3582	21.4	0.19	11.4	48.9	"	"
1015	35	200	7.90	2.4	6.93	0.3611	18.5	0.21	11.5	46.3	"	"
1020	40	200	7.91	2.7	6.95	0.3745	12.3	0.23	11.5	44.9	"	"
1025	45	200	7.93	3.0	6.96	0.3791	10.3	0.24	11.5	43.7	"	"
1030	50	200	7.95	3.3	6.97	0.3804	9.8	0.24	11.5	42.8	"	"
1035	Sample											

Constituents Sampled	Container	Number	Preservative
8260 VOC	40 mL VOA	2	HCl
RSK-175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: Brewerton, NY | Well Locked at Arrival: Yes

Condition of Well: Good | Well Locked at Departure: Yes

Well Completion: Flush Mount / Stick Up | Key Number To Well: ___

ARCADIS

Groundwater Sampling Form

Project No. 30135025 Well ID: EW-3 Date: 11/30/22

Project Name/Location: Brewerton Jacks Cleaners Weather: 40s, Cloudy

Measuring Point (MP) Description: Top of Casing

Screen Setting (ft-bmp): 2e

Casing Diameter (in.): 2 inch ~~3.02~~

Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 2.21

Total Depth (ft-bmp): 20.72

Water Column (feet): 18.51

Gallons in Well: 3.02

MP Elevation: ___

Pump Intake (ft-bmp): ~ 14

Purge Method: Low Flow (Centrifugal: ___ Submersible: ___ Other: ___)

Sample Method: Low Flow

Pump On/Off: 0815/0930

Volumes Purged: 1.19

Sample Time: Label 0920 Start ___ End ___

Replicate/ Code No.: ___

Sampled by: KB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0815	0	-	2.21	0	7.13	1.556	71000	0.18	10.8	-79.0	Milky	None
0820	5	200	6.34	0.3	7.07	1.594	>1000	0.11	10.7	-76.6	"	"
0825	10	200	5.88	0.6	7.01	1.658	>1000	0.07	10.5	-72.7	"	"
0830	15	200	6.31	0.9	6.97	1.684	>1000	0.06	10.7	-80.5	"	"
0835	20	200	6.67	1.2	6.92	1.703	>1000	0.05	10.9	-90.8	"	"
0840	25	200	6.84	1.5	6.98	1.729	>1000	0.06	11.0	-89.1	"	"
0845	30	200	6.93	1.8	6.85	1.746	>1000	0.09	11.0	-87.9	"	"
0850	35	200	6.98	2.1	6.80	1.749	938	0.09	11.0	-87.8	"	"
0855	40	200	7.21	2.4	6.79	1.752	381	0.09	11.0	-87.8	clear	"
0900	45	200	7.34	2.7	6.77	1.774	74.3	0.10	11.0	-87.8	"	"
0905	50	200	7.47	3.0	6.73	1.798	28.5	0.10	11.0	-87.8	"	"
0910	55	200	7.47	3.3	6.73	1.801	26.9	0.11	10.9	-87.4	"	"
0915	60	50	7.48	3.6	6.73	1.803	26.0	0.11	10.9	-87.3	"	"
0920	Sample											

Constituents Sampled	Container	Number	Preservative
8260 VOC	40 mL VOA	6	HCl
Dissolved Gas RSK-175	40 mL VOA	2	"

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton, NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well: ___

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID MW-14 Date 11-30-22

Project Name/Location: Brewerton, Jacks Dry Cleaners Weather 45, Rain

Measuring Pt. Description: TIC Screen Setting (ft-bmp): Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 2.48 Total Depth (ft-bmp): 25.25 Water Column/ Gallons in Well: 22.77/3.71

MP Elevation: Pump Intake (ft-bmp): ~18' Purge Method: Peri Centrifugal Submersible Other Sample Method: Low Flow

Pump On/Off: 1245/1345 Volumes Purged:

Sample Time: Label 1340 Start End Replicate/ Code No.: Sampled by: DM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1250	5	250	5.93	1.25	6.47	0.99	574	0.95	11.0	-24.9	Cloudy White	Yes
1255	10	250	7.35	2.50	6.54	1.07	289	0.45	11.1	-44.4	"	"
1300	15	250	7.91	3.75	6.59	1.11	214	0.35	11.2	-54.0	"	"
1305	20	250	8.22	5.0	6.62	1.13	163	0.30	11.2	-59.2	"	"
1310	25	250	8.48	6.25	6.64	1.16	97.3	0.26	11.2	-63.7	Clear	"
1315	30	250	8.70	7.5	6.66	1.18	71.6	0.24	11.3	-66.7	"	"
1320	35	250	8.83	8.75	6.68	1.22	54.7	0.23	11.3	-70.6	"	"
1325	40	250	8.90	10	6.69	1.23	49.9	0.23	11.4	-71.9	"	"
1330	45	250	8.92	11.25	6.68	1.23	48.1	0.23	11.3	-72.4	"	"
1335	50	250	8.93	12.5	6.68	1.22	48.4	0.23	11.3	-71.7	"	"

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	HCl

Clear water with white tint and flakes of injection material

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton, NY

Condition of Well: Good Casing Sinfly

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well:

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID MW-11R Date 12-1-22

Project Name/Location: Brewerton Jacks Dry Cleaners Weather 30, Cloudy

Measuring Pt. Description TIC Screen Setting (ft-bmp) Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-bmp) 1.38 Total Depth (ft-bmp) 17.58 Water Column/ Gallons in Well 16.2 / 2.64

MP Elevation Pump Intake (ft-bmp) ~ 11' Purge Method: Peri Sample Method: Low Flow

Pump On/Off 1315 / 1425 Volumes Purged Centrifugal Submersible Other

Sample Time: Label 1420 Start End Replicate/ Code No. Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1320	5	250	2.03	1.25	6.66	0.70	340	0.56	11.7	-124.6	Milky	None
1325	10	250	2.41	2.5	6.65	0.72	281	0.37	12.1	-130.0	"	"
1330	15	250	2.66	3.75	6.62	0.73	162	0.39	12.3	-132.0	"	"
1335	20	250	2.84	5.0	6.62	0.74	132	0.27	12.4	-132.7	"	"
1340	25	250	3.01	6.25	6.61	0.75	113	0.18	12.5	-133.9	"	"
1345	30	250	3.11	7.50	6.63	0.75	94.8	0.18	12.5	-135.9	"	"
1350	35	250	3.19	8.75	6.63	0.76	86.2	0.17	12.6	-135.3	"	"
1355	40	250	3.23	10.0	6.60	0.76	62.3	0.17	12.7	-136.4	Clear	"
1400	45	250	3.25	11.25	6.63	0.76	54.5	0.17	12.6	-130.4	Clear	"
1405	50	250	3.26	12.5	6.64	0.76	49.9	0.16	12.7	-124.3	Clear	"
1410	55	250	3.26	13.75	6.63	0.77	48.7	0.17	12.7	-122.7	Clear	"
1415	60	250	3.26	15.0	6.63	0.77	48.1	0.17	12.7	-119.4	Clear	"

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK175	40 mL VOA	2	HCl
5-PFAS 1633	500 mL Plastic	3	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton, NY

Condition of Well: Flush mount sinking

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well:

6/30/2017

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID MW-5 Date 11-30-22

Project Name/Location: Brewerton Jacks Dry Cleaners Weather 45, Rain

Measuring Pt. Description TIC 2.79 Screen Setting (ft-bmp) Casing Diameter (in.) 2" Well Material ✓ PVC SS

Static Water Level (ft-bmp) 2.79 Total Depth (ft-bmp) 14.88 Water Column/ Gallons in Well 12.09/1.97

MP Elevation Pump Intake (ft-bmp) ~10' Purge Method: Peri Centrifugal Submersible Other Sample Method: Low Flow

Pump On/Off 1425/1515 Volumes Purged

Sample Time: Label 1510 Start End Replicate/ Code No. Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1430	5	250	2.80	1.25	7.52	0.60	70.7	0.51	13.7	-16.7	Clear	none
1435	10	250	2.81	2.5	7.53	0.58	54.2	0.38	13.9	-22.4	"	"
1440	15	250	2.82	3.75	7.53	0.58	41.3	0.28	13.5	-27.2	"	"
1445	20	250	2.82	5.0	7.54	0.58	30.4	0.24	14.1	-35.8	"	"
1450	25	250	2.82	6.25	7.53	0.57	27.3	0.21	13.9	-41.0	"	"
1455	30	250	2.82	7.5	7.54	0.57	24.8	0.17	14.0	-46.7	"	"
1500	35	250	2.82	8.75	7.55	0.57	23.3	0.16	14.0	-47.2	"	"
1505	40	250	2.82	10	7.55	0.56	21.9	0.16	14.1	-47.6	"	"

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Diss. Gas RSK 175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Well Location: Brewerton, NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well:

ARCADIS
Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID MW-10BR Date 11-30-22

Project Name/Location: Brewerton, Jacks Dry Cleaners Weather MS, Cloudy

Measuring Pt. Description TOC Screen Setting (ft-bmp) Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-bmp) 3.28 Total Depth (ft-bmp) 30.79 Water Column/ Gallons in Well 27.51 / 4.48

MP Elevation ___ Pump Intake (ft-bmp) ~25 Purge Method: Peri Sample Method: Low Flow

Pump On/Off 0815 / 0855 Volumes Purged ___ Centrifugal ___ Submersible ___ Other ___

Sample Time: Label 0855 Start ___ End ___ Replicate/ Code No. ___ Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0820	5	250	3.23	1.25	6.96	3.46	457	0.77	10.7	-55.0	Clear	Yes
0825	10	250	3.24	2.5	6.97	3.51	44.9	0.46	10.8	-56.3	"	"
0830	15	250	3.25	3.75	6.97	3.53	27.3	0.39	10.8	-56.7	"	"
0835	20	250	3.25	5	6.97	3.55	23.1	0.32	10.8	-57.7	"	"
0840	25	250	3.25	6.25	6.97	3.57	19.8	0.28	10.9	-58.5	"	"
0845	30	250	3.25	7.5	6.97	3.58	19.2	0.27	10.8	-59.3	"	"
0850	35	250	3.25	8.75	6.98	3.58	18.3	0.26	10.9	-60.5	"	"

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	HCl

Well Casing Volumes
Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information
Well Location: Brewerton, NY
Condition of Well: Good
Well Completion: Flush Mount / (Stick Up)
Well Locked at Arrival: Yes
Well Locked at Departure: Yes
Key Number To Well:

6/30/2017

ARCADIS

Groundwater Sampling Form

Project No. 30135043 Well ID MW-9 Date 11-30-17

Project Name/Location: Brewerton Jacks Dry cleaners Weather 45, Rain

Measuring Pt. Description: TIC Screen Setting (ft-bmp): Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 1.91 Total Depth (ft-bmp): 18.01 Water Column/ Gallons in Well: 16.1/2.62

MP Elevation: Pump Intake (ft-bmp): ~14' Purge Method: Peri Centrifugal Submersible Other Sample Method: Low Flow

Pump On/Off: 1045/1135 Volumes Purged:

Sample Time: Label 1130 Start End Replicate/ Code No.: Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1060	5	250	2.31	1.25	6.80	1.34	74.8	0.29	13.2	-30.7	Clear	none
1055	10	250	2.34	2.5	6.79	1.31	61.4	0.23	13.3	-39.0	"	"
1100	15	250	2.36	3.75	6.80	1.31	50.7	0.19	13.3	-43.2	"	"
1105	20	250	2.37	5	6.80	1.31	39.2	0.18	13.3	-45.8	"	"
1110	25	250	2.37	6.25	6.81	1.31	31.7	0.17	13.3	-48.0	"	"
1115	30	250	2.38	7.5	6.81	1.30	26.4	0.17	13.4	-49.6	"	"
1120	35	250	2.38	8.75	6.81	1.31	23.2	0.17	13.5	-51.0	"	"
1125	40	250	2.38	10	6.81	1.31	21.7	0.16	13.5	-51.7	"	"

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas 1215-175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton, NY

Condition of Well: Good

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well:

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID MW-13 Date 11-30-22

Project Name/Location: Brewerton, Jacks Dry cleaners Weather 45, Rain

Measuring Pt. Description: TIC Screen Setting (ft-bmp): Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 2.62 Total Depth (ft-bmp): 28.81 Water Column/ Gallons in Well: 26.19/ 4.26

MP Elevation: Pump Intake (ft-bmp): ~24' Purge Method: Peri Sample Method: Low Flow

Pump On/Off: 0945/1040 Volumes Purged: Centrifugal ___ Submersible ___ Other ___

Sample Time: Label 1035 Start ___ End ___ Replicate/ Code No. Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) ~~(mS/cm)~~ +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0950	5	250	3.46	1.25	6.96	0.96	74.8	0.52	13.0	5.1	clear	yes
0955	10	250	3.48	2.5	6.95	0.99	49.7	0.36	13.0	2.2	"	"
1000	15	250	3.49	3.75	6.95	1.02	31.2	0.26	13.0	-1.0	"	"
1005	20	250	3.60	5.0	6.94	1.04	28.5	0.22	13.0	-3.5	"	"
1010	25	250	3.50	6.25	6.94	1.05	26.1	0.21	13.1	-6.1	"	"
1015	30	250	3.60	7.5	6.94	1.05	25.3	0.19	13.1	-8.9	"	"
1020	35	250	3.50	8.75	6.93	1.06	24.9	0.19	13.1	-12.5	"	"
1025	40	250	3.60	10.0	6.94	1.06	20.0	0.18	13.1	-13.2	"	"
1030	45	250	3.50	11.25	6.94	1.06	18.7	0.19	13.1	-13.6	"	"
1035												

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton, NY

Condition of Well: Good

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: Y

Well Locked at Departure: Y

Key Number To Well:

6/09/2017

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID MW-11 Date 11-29-22

Project Name/Location: Brewston Jacks Dry Cleaners Weather 43, Cloudy

Measuring Pt. Description TIC Screen Setting (ft-bmp) _____ Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-bmp) 3.77 Total Depth (ft-bmp) 19.71 Water Column/ Gallons in Well 15.94/2.60

MP Elevation _____ Pump Intake (ft-bmp) ~15' Purge Method: Peri Sample Method: Low Flow

Pump On/Off 1440/1535 Volumes Purged _____ Centrifugal _____ Submersible _____ Other _____

Sample Time: Label 1530 Start 1526 End 1531 Replicate/ Code No. _____ Sampled by DM

PID: _____ Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1445	5	250	5.13	1.25	7.04	1.88	744	0.30	10.6	-28.5	L. Brown	none
1450	10	250	5.19	2.5	7.09	1.60	642	0.24	10.7	-29.4	"	"
1455	15	250	5.20	3.75	7.01	1.33	176	0.24	10.7	-38.8	"	"
1500	20	250	5.20	5.0	6.94	1.27	136	0.25	10.7	-37.8	clear	"
1505	25	250	5.20	6.25	6.91	1.25	99	0.24	10.7	-38.4	"	"
1510	30	250	5.20	7.5	6.90	1.24	69	0.24	10.6	-38.9	"	"
1515	35	250	5.20	8.75	6.90	1.24	46.4	0.23	10.6	-39.3	"	"
1520	40	250	5.20	10	6.89	1.23	43.7	0.23	10.6	-39.7	"	"
1525	45	250	5.21	11.25	6.89	1.23	41.4	0.23	10.6	-39.9	"	"

Constituents Sampled	Container	Number	Preservative
VOC 8260	40mL VOA	2	HCl
Dissolved Gas RSK 175	40mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Well Location: Brewston, NY Well Locked at Arrival: Y

Condition of Well: Good Well Locked at Departure: Y

Well Completion: Flush Mount / ~~Stick Up~~ Key Number To Well:

5/9/2017

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID IW-7 Date 11-29-22

Project Name/Location: Brewerton Jacks Dry Cleaning Weather 45, Cloudy

Measuring Pt. Description: TIC Screen Setting (ft-bmp): Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 1.53 Total Depth (ft-bmp): 19.77 Water Column/ Gallons in Well: 18.24 / 2.97

MP Elevation: Pump Intake (ft-bmp): ~ 17.5' Purge Method: Peri Centrifugal Submersible Other Sample Method: Low Flow

Pump On/Off: 1320 / 1410 Volumes Purged:

Sample Time: Label 1405 Start End Replicate/ Code No.: Sampled by DYI

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1325	5	~700	1.88	1.25	6.63	1.81	104	0.25	11.4	-35.4	Cloudy	some Remaining fines
1330	10	250	1.90	2.5	6.63	1.82	82.7	0.22	11.4	-37.6	"	"
1335	15	250	1.91	3.75	6.64	1.82	54.4	0.21	11.4	-40.6	Clear	"
1340	20	250	1.92	5	6.63	1.82	58.3	0.20	11.5	-41.9	"	"
1345	25	250	1.92	6.25	6.63	1.82	52.6	0.19	11.4	-43.5	"	"
1350	30	250	1.92	7.5	6.64	1.82	51.3	0.19	11.5	-45.1	"	"
1355	35	250	1.92	8.75	6.63	1.82	26.5	0.19	11.5	-46.2	"	"
1400	40	250	1.92	10	6.63	1.83	24.3	0.19	11.5	-46.7	"	"

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	"	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Y

Well Locked at Departure: Y

Key Number To Well:

6/30/2017

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID IV-11 Date 11-29-22

Project Name/Location: Brewerton, Jaebs Dry Cleaners Weather 45, Cloudy

Measuring Pt. Description: TIC Screen Setting (ft-bmp): Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 3.49 Total Depth (ft-bmp): 19.09 Water Column/ Gallons in Well: 15.6'/2.54

MP Elevation: Pump Intake (ft-bmp): ~17.5 Purge Method: Per Sample Method: Low Flow

Pump On/Off: 1205/1305 Volumes Purged: Centrifugal: Submersible: Other:

Sample Time: Label 1300 Start 1258 End 1301 Replicate/ Code No.: Sampled by: DM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor	
1210	5	250	6.29	1.25	6.90	1.33	163	0.30	11.6	-92.5	Cloudy	none	Purge Lines
1215	10	250	8.16	2.5	6.90	1.31	112	0.45	11.5	-97.1	"	"	
1220	15	250	9.26	3.75	6.91	1.26	127	0.37	11.6	-98.5	"	"	
1225	20	250	9.46	5	6.92	1.17	144	0.29	11.7	-100.0	"	"	
1230	25	250	9.44	6.25	6.92	1.04	152	0.26	11.9	-99.2	"	"	
1235	30	250	9.37	7.5	6.92	0.98	94.7	0.24	11.9	-97.6	"	"	
1240	35	250	9.36	8.75	6.91	0.91	69.8	0.23	12.0	-95.1	"	"	
1245	40	250	9.37	10	6.92	0.87	47.8	0.23	12.0	-93.3	Clear	"	
1250	45	250	9.37	11.25	6.91	0.87	46.4	0.23	11.9	-92.8	"	"	
1255	50	250	9.36	12.5	6.91	0.86	47.1	0.22	12.0	-92.5	"	"	

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gases RSK-175	"	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Good Brewerton

Condition of Well: Good

Well Completion: Flush Mount / ~~Stick Up~~

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well:

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID IW-14 Date 11-29-22

Project Name/Location: Brewerton Jacks Dry Cleaners Weather 45 Cloudy

Measuring Pt. Description: TIC Screen Setting (ft-bmp): Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 2.64 Total Depth (ft-bmp): 22.93 Water Column/ Gallons in Well: 20.29/3.30

MP Elevation: Pump Intake (ft-bmp): ~ 18' Purge Method: Peri Centrifugal Submersible Other Sample Method: Low Flow

Pump On/Off: 1020/1120 Volumes Purged:

Sample Time: Label 1115 Start 1111 End 1116 Replicate/ Code No.: Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro Plus

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) mS/cm +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1025	5	250	4.56	1.25	6.79	2.18	707	0.68	10.7	-68.9	Cloudy	none
1030	10	250	5.57	2.5	6.71	1.89	541	0.24	10.7	-68.3	Black	"
1035	15	250	5.56	3.75	6.64	1.63	270	0.36	10.8	-57.6	Clear w/white	"
1040	20	250	5.67	5	6.63	1.46	149.8	0.25	10.8	-57.3	"	"
1045	25	250	5.68	6.25	6.63	1.41	97.6	0.25	10.9	-68.7	"	"
1050	30	250	5.65	7.5	6.63	1.35	91.7	0.24	10.9	-59.5	"	"
1055	35	250	5.69	8.75	6.63	1.38	84.2	0.25	10.9	-60.3	"	"
1100	40	250	5.70	10	6.64	1.29	68.7	0.25	10.9	-61.6	"	"
1105	45	250	5.69	11.25	6.64	1.30	73.8	0.24	11.0	-63.4	"	"
1110	50	250	5.70	12.5	6.64	1.31	74.8	0.24	10.9	-63.9	"	"

Sucked fines off bottom

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	"	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well:

ARCADIS

Groundwater Sampling Form

Project No. 30135043 Well ID: JW-24 Page 1 of 2

Project Name/Location: Brewerton Jacks Cleaners Date: 11/29/22

Weather: 30s, Cloudy

Measuring Point (MP) Description: Top of Casing

Screen Setting (ft-bmp):

Casing Diameter (in.): 2"

Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 0.37

Total Depth (ft-bmp): 20.93

Water Column (feet): 20.56

Gallons in Well: 3.35

MP Elevation:

Pump Intake (ft-bmp): ~15'

Purge Method: Low Flow

Centrifugal:

Submersible:

Other:

Sample Method: Low Flow

Pump On/Off: 1205/1355

Volumes Purged:

Sample Time: Label 1345

Start

End

Replicate/ Code No.:

Sampled by: KB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1205	0	—	0.37	0.0	6.74	1.578	74.6	0.21	11.7	-58.0	clear	none
1210	5	200	1.78	0.3	6.74	1.850	56.2	0.23	11.6	-67.3	"	"
1215	10	200	1.94	0.6	6.75	1.810	50.9	0.22	11.7	-74.9	"	"
1220	15	200	2.17	0.9	6.77	1.774	71000	0.18	11.7	-83.9	Muddy	"
1225	20	200	2.30	1.2	6.78	1.763	71000	0.15	11.8	-85.6	"	"
1230	25	200	2.40	1.5	6.78	1.757	>71000	0.14	11.9	-91.8	"	"
1235	30	200	7.84	1.8	6.77	1.739	71000	0.10	11.9	-94.1	"	"
1240	35	200	13.07	2.1	6.76	1.718	938	0.07	11.9	-96.2	"	"
1245	40	200	13.21	2.4	6.73	1.691	930	0.09	11.8	-95.7	"	"
1250	45	200	13.25	2.7	6.72	1.664	915	0.10	11.7	-95.3	"	"
1255	50	200	13.31	3.0	6.69	1.608	664	0.11	11.6	-92.9	"	"
1300	55	200	12.85	3.3	6.69	1.567	364	0.11	11.5	-91.6	"	"
1305	60	200	9.78	3.6	6.68	1.570	262	0.11	11.6	-91.7	"	"
1310	65	200	9.31	3.9	6.68	1.563	201	0.11	11.6	-91.7	"	"
1315	70	200	9.04	4.2	6.66	1.553	143	0.09	11.6	-91.4		
1320	75	200	8.71	4.5	6.65	1.540	112	0.09	11.6	-91.2		
1325	80	200	8.67	4.8	6.64	1.530	843	0.09	11.6	-90.9		

Constituents Sampled	Container	Number	Preservative
8260 Standard Dissolved Gases	40mL Vial	2	HCl
8260 Standard	40mL Vial	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: —

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 Well ID: IW-24 Date: 11/29/22

Project Name/Location: Brewerton Jacks Cleaners Weather: SOS, Clear

Measuring Point (MP) Description: Top of Casing
Screen Setting (ft-bmp):
Casing Diameter (in.): 2.0
Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 0.37
Total Depth (ft-bmp): 20.93
Water Column (feet): 20.56
Gallons in Well: 3.35

MP Elevation:
Pump Intake (ft-bmp): ~15'
Purge Method: Low Flow
Centrifugal:
Submersible:
Other:
Sample Method: Low Flow

Pump On/Off: 1205 / 1355
Volumes Purged:

Sample Time: Label 1345
Start
End
Replicate/ Code No.:

Sampled by: KB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1330	85	200	6.66	5.1	6.64	1.523	79.4	0.09	11.6	-90.7	"	"
1335	90	200	5.70	5.4	6.64	1.520	44.3	0.09	11.7	-90.7	"	"
1340	95	200	6.71	5.7	6.63	1.514	40.7	0.09	11.7	-90.5	"	"
1345	Sample											

Constituents Sampled	Container	Number	Preservative
8260 Standard Dissolved Gases	40mL Vial	3	HCl
8260 Standard	40mL Vial	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton NY
Condition of Well: Good
Well Completion: ~~Flush Mount~~ / Stick Up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: —

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30135043 | Well ID: IW-19 | Date: 11/24/21

Project Name/Location: Brewton Tanks Cleanup | Weather: 50s, cloudy

Well Material: X PVC / SS

Measuring Point (MP) Description: Top of Casing | Screen Setting (ft-bmp): 12.5-22.5 | Casing Diameter (in.): 2"

Static Water Level (ft-bmp): 0.94 | Total Depth (ft-bmp): 24.18 | Water Column (feet): 23.24

MP Elevation: | Pump Intake (ft-bmp): ~20' | Gallons in Well: 3.79

Pump On/Off: 1400/1500 | Volumes Purged: 0.71 | Purge Method: Low Flow | Sample Method: Low Flow

Centrifugal: | Submersible: | Other:

Sample Time: Label 1450 | Start | End | Replicate/ Code No.: | Sampled by: WB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1400	0	-	0.94	0.0	6.68	2.070	477	0.16	10.8	-44.8	clear	None
1405	5	200	1.87	0.3	6.66	2.064	276	0.11	10.6	-54.3	"	"
1410	10	200	2.19	0.6	6.60	2.031	166	0.07	10.6	-62.5	"	"
1415	15	200	2.24	29	6.61	2.015	113	0.11	10.4	-65.9	"	"
1420	20	200	2.27	1.2	6.61	2.003	98.4	0.13	10.1	-63.3	"	"
1425	25	200	2.48	1.5	6.63	1.989	82.9	0.15	9.8	-61.4	"	"
1430	30	200	2.51	1.8	6.63	1.990	63.8	0.09	9.8	-59.3	"	"
1435	35	200	2.53	2.1	6.64	1.993	44.3	0.08	9.6	-54.4	"	"
1440	40	200	2.55	2.4	6.64	1.995	40.1	0.08	9.9	-52.3	"	"
1445	45	200	2.56	2.7	6.64	1.997	39.5	0.08	10.0	-50.2	"	"
1450	Sample											

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: Brewton NJ | Well Locked at Arrival: YES

Condition of Well: Good | Well Locked at Departure: YES

Well Completion: Flush Mount / Stick Up | Key Number To Well: 2537

ARCADIS

Groundwater Sampling Form

Project No. 30135043 Well ID: MW-14BR Page 1 of 1

Project Name/Location: Brewerton Jacks Cleaners Date: 1/29/22

Measuring Point (MP) Description: Top of Casing Screen Setting (ft-bmp): 28-38 Casing Diameter (in.): 2.0 Weather: 50s, Cloudy

Static Water Level (ft-bmp): 5.74 Total Depth (ft-bmp): 39.37 Water Column (feet): 33.63 Well Material X PVC ___ SS

MP Elevation: ___ Pump Intake (ft-bmp): ~~35~~ 33 Gallons in Well: 5.48

Pump On/Off: 1507/1600 Volumes Purged: 0.60 Purge Method: Low Flow Sample Method: Low Flow

Sample Time: Label 1600 Start ___ End ___ Replicate/ Code No.: ___ Centrifugal: ___ Submersible: ___ Other: ___ Sampled by: AB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1500	0	—	5.74	0.0	7.04	1.091	348	0.51	10.4	-90.3	Brown	None
1505	5	200	6.39	0.3	7.03	1.079	371	0.34	10.4	-113.0	"	"
1510	10	200	6.00	0.6	7.03	1.068	346	0.25	10.4	-125.9	clear	"
1515	15	200	6.30	0.9	7.01	1.069	331	0.21	10.3	-131.4	"	"
1520	20	200	6.34	1.2	7.01	1070	3.25	0.18	10.3	-138.1	"	"
1525	25	200	6.59	1.5	6.99	1.068	210	0.25	9.8	-141.3	"	"
1530	30	200	6.71	1.8	6.93	1.068	132	0.22	9.5	-144.1	"	"
1535	35	200	6.73	2.1	6.88	1.072	97.1	0.22	9.7	-142.7	"	"
1540	40	200	6.77	2.4	6.85	1.078	84.3	0.22	9.7	-148.3	"	"
1545	45	200	6.79	2.7	6.85	1.084	34.9	0.22	9.8	-150.2	"	"
1550	50	200	6.81	3.0	6.84	1.093	33.1	0.22	9.8	-150.9	"	"
1555	55	200	6.80	3.3	6.84	1.097	32.0	0.22	9.9	-156.4	"	"
1600												

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas 125K-175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Well Location: Brewerton NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well: 2537

ARCADIS

Groundwater Sampling Form

Project No. 30135043 Well ID: MW-8 Page 1 of 1

Project Name/Location: Brewerton Jack Cleaners Date: 12/3/22

Weather: 40s, S. rain

Measuring Point (MP) Description: Top of Casing

Screen Setting (ft-bmp):

Casing Diameter (in.): 2.0

Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 9.17

Total Depth (ft-bmp): 14.67

Water Column (feet): 10.5

Gallons in Well: 1.71

MP Elevation:

Pump Intake (ft-bmp): 2 10

Purge Method: Low Flow

Centrifugal:

Submersible:

Other:

Sample Method: Low Flow

Pump On/Off: 1045 / 1150

Volumes Purged:

Sample Time: Label 1140

Start

End

Replicate/ Code No.:

Sampled by: KB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1045	0	—	9.17	0	6.46	0.431	389	1.53	11.4	3.2	clear	none
1050	5	200	9.32	0.9	6.30	0.413	87.7	1.28	12.3	45.5	"	"
1055	10	200	8.24	0.6	6.27	0.407	49.8	1.00	12.3	60.1	"	"
1100	15	200	7.96	0.9	6.26	0.410	42.9	1.12	12.5	66.7	"	"
1105	20	200	7.73	1.2	6.26	0.414	38.1	1.19	12.8	72.5	"	"
1110	25	200	7.60	1.5	6.26	0.429	22.5	1.14	13.0	88.0	"	"
1115	30	200	7.87	1.8	6.26	0.437	19.8	1.10	13.1	86.4	"	"
1120	35	200	7.80	2.1	6.29	0.444	14.6	1.54	13.3	95.1	"	"
1125	40	200	7.95	2.4	6.32	0.448	12.5	1.75	13.6	97.1	"	"
1130	45	200	7.97	2.7	6.30	0.449	11.7	1.74	13.5	101.7	"	"
1135	50	200	7.97	3.0	6.31	0.452	11.0	1.70	13.7	103.5	"	"
1140	Sample											

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Brewerton NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: —

ARCADIS

Groundwater Sampling Form

Project No. 30135043 | Well ID: IW-31 | Date: 12/2/19

Project Name/Location: Brewerton Jacks Cleaners | Weather: 40s, Snny

Measuring Point (MP) Description: Top of Casing | Screen Setting (ft-bmp): | Casing Diameter (in.): 2 in | Well Material: X PVC / SS

Static Water Level (ft-bmp): 4.07 | Total Depth (ft-bmp): 17.93 | Water Column (feet): 13.86 | Gallons in Well: 2.26

MP Elevation: | Pump Intake (ft-bmp): ~13 | Purge Method: Low Flow | Centrifugal: | Submersible: | Other: | Sample Method: Low Flow

Pump On/Off: 0855/0955 | Volumes Purged:

Sample Time: Label 0945 | Start | End | Replicate/ Code No.: | Sampled by: MB

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0855	0	–	4.07	0.0	-.55	0.823	7000	0.58	13.74	-73.6	Brown	None
0900	5	200	6.17	0.3	6.49	0.876	517	0.33	13.6	-80.8	clear	None
0905	10	200	6.46	0.6	6.48	0.863	380	0.24	13.5	-82.1	"	"
0910	15	200	6.82	0.9	6.47	0.846	107	0.18	13.3	-85.7	"	"
0915	20	200	6.80	1.2	6.47	0.890	89.3	0.87	13.2	-87.0	"	"
0920	25	200	6.77	1.5	6.46	0.908	64.9	~~0.13~~ 0.11	13.2	-88.4	"	"
0925	30	200	6.81	1.8	6.46	0.897	42.4	0.13	13.3	-86.4	"	"
0930	35	200	6.82	2.1	6.47	0.874	38.5	0.12	13.5	-85.1	"	"
0935	40	200	6.82	2.4	6.47	0.875	36.8	0.12	13.5	-70.4	"	"
0940	45	200	6.83	2.7	6.48	0.869	36.4	0.12	13.5	-77.9	"	"
0945	Sample											

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK-175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: Brewerton NY | Well Locked at Arrival: Yes

Condition of Well: Good | Well Locked at Departure: Yes

Well Completion: Flush Mount / Stick Up | Key Number To Well:

ARCADIS

Groundwater Sampling Form

Page 1 of 2

Project No. 30135043 Well ID MW-10 Date 12-14-22

Project Name/Location: Jacobs Cleaners Brewerton Weather 25° Clear

Measuring Pt. Description: TIC Screen Setting (ft-bmp): Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 4.04 Total Depth (ft-bmp): 18.08 Water Column/ Gallons in Well: 14.04/2.28

MP Elevation: Pump Intake (ft-bmp): ~ 11.5' Purge Method: Peri Centrifugal Submersible Other Sample Method: Low Flow

Pump On/Off: 1115/1322 Volumes Purged:

Sample Time: Label 1320 Start End Replicate/ Code No.: Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: Horriba

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1120	5	250	4.57	1.25	7.52	1.51	>1000	2.49	11.96	-116	Brown	none
1125	10	250	5.07	2.5	7.04	1.62	>1000	2.01	10.47	-118		
1130	15	250	5.12	3.75	6.83	1.68	>1000	1.31	10.01	-119		
1135	20	250	5.14	5.0	6.71	1.74	>1000	1.01	9.42	-121		
1140	25	250	5.16	6.25	6.65	1.79	813	0.82	8.90	-122		
1145	30	250	5.19	7.5	6.62	1.86	>1000	0.77	8.69	-119		
1150	35	250	5.24	8.75	6.60	1.93	>1000	0.74	8.58	-111		
1155	40	250	5.26	10	6.58	2.00	>1000	0.71	8.49	-108		
1200	45	250	5.28	11.25	6.57	2.09	>1000	0.69	8.40	-105		
1205	50	250	5.29	12.5	6.56	2.18	>1000	0.67	8.42	-102		
1210	55	250	5.29	13.75	6.55	2.27	>1000	0.65	8.44	-99		
1215	60	250	5.31	15	6.54	2.35	907	0.63	8.45	-97		
1220	65	250	5.32	16.25	6.55	2.40	854	0.62	8.46	-94		
1225	70	250	5.33	17.5	6.54	2.45	787	0.61	8.48	-92		
1230	75	250	5.31	18.75	6.55	2.48	601	0.59	8.25	-91		

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
Dissolved Gas RSK 175	40 mL VOA	2	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Well Locked at Arrival:

Condition of Well: Well Locked at Departure:

Well Completion: Flush Mount / Stick Up Key Number To Well:

8/30/2017

ARCADIS
Groundwater Sampling Form

Page 2 of 2

Project No. _____ Well ID MW-10 Date 12-14-22

Project Name/Location: _____ Weather _____

Measuring Pt. Description _____ Screen Setting (ft-bmp) _____ Casing Diameter (in.) _____ Well Material ___ PVC ___ SS

Static Water Level (ft-bmp) _____ Total Depth (ft-bmp) _____ Water Column/ Gallons in Well _____

MP Elevation _____ Pump Intake (ft-bmp) _____ Purge Method: _____ Sample Method: Low Flow

Pump On/Off _____ Volumes Purged _____ Centrifugal _____ Submersible _____ Other _____

Sample Time: Label _____ Start _____ End _____ Replicate/ Code No. _____ Sampled by _____

PID: _____ Water Quality Meter Type and ID: _____

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
						2.50						
1235	80	250	5.30	20	6.55	~~2.58~~	481	0.57	8.18	-90	Brown	none
1240	85	250	5.29	21.25	6.54	2.57	422	0.56	8.22	-89	Milky	"
1245	90	250	5.30	22.5	6.54	2.65	363	0.56	8.24	-88	"	"
1250	95	250	5.29	23.75	6.60	2.72	291	0.55	8.17	-83	"	"
1255	100	250	5.30	25	6.63	2.78	258	0.56	8.09	-77	"	"
1300	105	250	5.30	26.25	6.56	2.77	211	0.57	8.02	-72	"	"
1305	110	250	5.31	27.5	6.54	2.76	190	0.56	8.00	-68	Cloudy	"
1310	115	250	5.31	28.75	6.53	2.77	187	0.55	7.99	-66	"	"
1315	120	250	5.31	30	6.52	2.77	184	0.56	7.98	-65	"	"
/												

Constituents Sampled	Container	Number	Preservative

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

APPENDIX B

Laboratory Analytical Reports

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 19, 2022

Stephanie Fitzgerald
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Brewston, NY
Client Job Number:
Project Number: 734112
Laboratory Work Order Number: 22L0331

Enclosed are results of analyses for samples as received by the laboratory on December 2, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Stephanie Fitzgerald

REPORT DATE: 12/19/2022

PURCHASE ORDER NUMBER: 145616

PROJECT NUMBER: 734112

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22L0331

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Brewston, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IW-29	22L0331-01	Ground Water		RSK175	
				SW-846 8260D	
IW-25	22L0331-02	Ground Water		RSK175	
				SW-846 8260D	
IW-24	22L0331-03	Ground Water		RSK175	
				SW-846 8260D	
IW-19	22L0331-04	Ground Water		RSK175	
				SW-846 8260D	
MW-14BR	22L0331-05	Ground Water		RSK175	
				SW-846 8260D	
MW-11	22L0331-06	Ground Water		RSK175	
				SW-846 8260D	
IW-7	22L0331-07	Ground Water		RSK175	
				SW-846 8260D	
IW-11	22L0331-08	Ground Water		RSK175	
				SW-846 8260D	
IW-14	22L0331-09	Ground Water		RSK175	
				SW-846 8260D	
IW-17	22L0331-10	Ground Water		RSK175	
				SW-846 8260D	
IW-3	22L0331-11	Ground Water		RSK175	
				SW-846 8260D	
MW-15	22L0331-12	Ground Water		RSK175	
				SW-846 8260D	
MW-15BR	22L0331-13	Ground Water		RSK175	
				SW-846 8260D	
IW-1	22L0331-14	Ground Water		RSK175	
				SW-846 8260D	
IW-2	22L0331-15	Ground Water		RSK175	
				SW-846 8260D	
MW-13	22L0331-16	Ground Water		RSK175	
				SW-846 8260D	
MW-9	22L0331-17	Ground Water		RSK175	
				SW-846 8260D	
MW-10BR	22L0331-18	Ground Water		RSK175	
				SW-846 8260D	
MW-5	22L0331-19	Ground Water		RSK175	
				SW-846 8260D	
MW-14	22L0331-20	Ground Water		RSK175	
				SW-846 8260D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Stephanie Fitzgerald

REPORT DATE: 12/19/2022

PURCHASE ORDER NUMBER: 145616

PROJECT NUMBER: 734112

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22L0331

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Brewston, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-17	22L0331-21	Ground Water		RSK175	
				SW-846 8260D	
MW-17BR	22L0331-22	Ground Water		RSK175	
				SW-846 8260D	
MW-16	22L0331-23	Ground Water		RSK175	
				SW-846 8260D	
MW-16BR	22L0331-24	Ground Water		RSK175	
				SW-846 8260D	
MW-1R	22L0331-25	Ground Water		RSK175	
				SW-846 8260D	
MW-7	22L0331-26	Ground Water		RSK175	
				SW-846 8260D	
MW-12	22L0331-27	Ground Water		RSK175	
				SW-846 8260D	
MW-2	22L0331-28	Ground Water		RSK175	
				SW-846 8260D	
DUP-112922-1	22L0331-29	Ground Water		RSK175	
				SW-846 8260D	
DUP-112922-2	22L0331-30	Ground Water		RSK175	
				SW-846 8260D	
Trip Blank	22L0331-31	Ground Water		RSK175	
				SW-846 8260D	

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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.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

RSK175

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Methane
B325948-MS2

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Methane
B325949-MS2, B325949-MSD2

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:

2,2-Dichloropropane
22L0331-10[IW-17], B324991-MS1, B324991-MSD1

trans-1,4-Dichloro-2-butene
22L0331-01[IW-29], 22L0331-10[IW-17], B324990-MS1, B324990-MSD1, B324991-MS1, B324991-MSD1

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Methyl Acetate
22L0331-10[IW-17], B324991-MS1, B324991-MSD1

MS-23

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 outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Naphthalene
B324990-MS1

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
B324991-MSD1

Chloroethane
B324990-MS1

Dichlorodifluoromethane (Freon 12)
B324990-MS1

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:

1,4-Dioxane
22L0331-10[IW-17], B324991-MS1

Naphthalene
22L0331-01[IW-29], B324990-MS1, B324990-MSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

22L0331-02[IW-25], 22L0331-16[MW-13], 22L0331-17[MW-9], 22L0331-25[MW-1R], 22L0331-29[DUP-112922-1]

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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)

22L0331-10[IW-17], 22L0331-19[MW-5], 22L0331-20[MW-14], 22L0331-21[MW-17], 22L0331-22[MW-17BR], 22L0331-23[MW-16], 22L0331-24[MW-16BR], 22L0331-25[MW-1R], 22L0331-26[MW-7], 22L0331-27[MW-12], 22L0331-28[MW-2], 22L0331-29[DUP-112922-1], 22L0331-30[DUP-112922-2], 22L0331-31[Trip Blank], B324991-BLK1, B324991-BS1, B324991-BSD1, B324991-MS1, B324991-MSD1, S080389-CCV1

Naphthalene

22L0331-01[IW-29], 22L0331-02[IW-25], 22L0331-03[IW-24], 22L0331-04[IW-19], 22L0331-05[MW-14BR], 22L0331-06[MW-11], 22L0331-07[IW-7], 22L0331-08[IW-11], 22L0331-09[IW-14], 22L0331-10[IW-17], 22L0331-11[IW-3], 22L0331-12[MW-15], 22L0331-13[MW-15BR], 22L0331-14[IW-1], 22L0331-15[IW-2], 22L0331-16[MW-13], 22L0331-17[MW-9], 22L0331-18[MW-10BR], 22L0331-19[MW-5], 22L0331-20[MW-14], 22L0331-21[MW-17], 22L0331-22[MW-17BR], 22L0331-23[MW-16], 22L0331-24[MW-16BR], 22L0331-25[MW-1R], 22L0331-26[MW-7], 22L0331-27[MW-12], 22L0331-28[MW-2], 22L0331-29[DUP-112922-1], 22L0331-30[DUP-112922-2], 22L0331-31[Trip Blank], B324990-BLK1, B324990-BS1, B324990-BSD1, B324990-MS1, B324990-MSD1, B324991-BLK1, B324991-BS1, B324991-BSD1, B324991-MS1, B324991-MSD1, S080388-CCV1, S080389-CCV1

trans-1,4-Dichloro-2-butene

22L0331-10[IW-17], 22L0331-19[MW-5], 22L0331-20[MW-14], 22L0331-21[MW-17], 22L0331-22[MW-17BR], 22L0331-23[MW-16], 22L0331-24[MW-16BR], 22L0331-25[MW-1R], 22L0331-26[MW-7], 22L0331-27[MW-12], 22L0331-28[MW-2], 22L0331-29[DUP-112922-1], 22L0331-30[DUP-112922-2], 22L0331-31[Trip Blank], B324991-BLK1, B324991-BS1, B324991-BSD1, B324991-MS1, B324991-MSD1, S080389-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:

Methyl Acetate

22L0331-03[IW-24], 22L0331-10[IW-17], 22L0331-30[DUP-112922-2], B324990-BS1, B324990-BSD1, B324990-MS1, B324990-MSD1, B324991-BS1, B324991-BSD1, B324991-MS1, B324991-MSD1, S080388-CCV1, S080389-CCV1

trans-1,2-Dichloroethylene

22L0331-02[IW-25], 22L0331-09[IW-14], 22L0331-11[IW-3], 22L0331-16[MW-13], 22L0331-17[MW-9], B324990-BS1, B324990-BSD1, B324990-MS1, B324990-MSD1, S080388-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:

1,2-Dichloroethane

B324990-BS1, B324990-BSD1, B324990-MS1, B324990-MSD1, S080388-CCV1

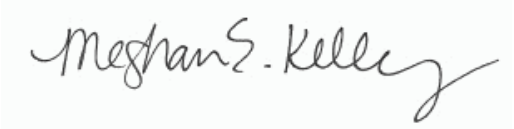
Dichlorodifluoromethane (Freon 12)

B324990-BS1, B324990-BSD1, B324990-MS1, B324990-MSD1, S080388-CCV1

Methylene Chloride

B324990-BS1, B324990-BSD1, B324990-MS1, B324990-MSD1, S080388-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

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-29 | Sampled: 11/29/2022 09:40

Sample ID: 22L0331-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.3	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	MS-07A	SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
cis-1,2-Dichloroethylene	1.1	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-29 | Sampled: 11/29/2022 09:40

Sample ID: 22L0331-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	R-06, V-05	SW-846 8260D	12/7/22	12/7/22 11:43	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Toluene	0.27	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Vinyl Chloride	0.36	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 11:43	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/7/22 11:43
Toluene-d8	100	70-130		12/7/22 11:43
4-Bromofluorobenzene	94.3	70-130		12/7/22 11:43

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-29 | Sampled: 11/29/2022 09:40

Sample ID: 22L0331-01

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 13:26	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/12/22	12/12/22 13:26	TPH
Methane	7.7	0.014	0.0024	mg/L	2		RSK175	12/12/22	12/12/22 13:37	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-25 | Sampled: 11/29/2022 11:40

Sample ID: 22L0331-02

Sample Matrix: Ground 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	1000	41	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Acrylonitrile	ND	100	11	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
tert-Amyl Methyl Ether (TAME)	ND	10	2.9	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Benzene	ND	20	4.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Bromobenzene	ND	20	3.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Bromochloromethane	ND	20	6.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Bromodichloromethane	ND	10	3.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Bromoform	ND	20	7.7	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Bromomethane	ND	40	31	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
2-Butanone (MEK)	ND	400	32	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
tert-Butyl Alcohol (TBA)	ND	400	94	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
n-Butylbenzene	ND	20	3.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
sec-Butylbenzene	ND	20	2.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
tert-Butylbenzene	ND	20	2.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	10	3.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Carbon Disulfide	ND	100	29	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Carbon Tetrachloride	ND	100	3.3	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Chlorobenzene	ND	20	2.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Chlorodibromomethane	ND	10	4.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Chloroethane	ND	40	6.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Chloroform	ND	40	3.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Chloromethane	ND	40	10	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
2-Chlorotoluene	ND	20	2.3	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
4-Chlorotoluene	ND	20	2.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	16	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2-Dibromoethane (EDB)	ND	10	3.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Dibromomethane	ND	20	7.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2-Dichlorobenzene	ND	20	2.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,3-Dichlorobenzene	ND	20	2.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,4-Dichlorobenzene	ND	20	2.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
trans-1,4-Dichloro-2-butene	ND	40	32	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Dichlorodifluoromethane (Freon 12)	ND	40	3.8	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1-Dichloroethane	ND	20	2.8	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2-Dichloroethane	ND	20	6.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1-Dichloroethylene	ND	20	2.8	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
cis-1,2-Dichloroethylene	1400	20	2.9	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
trans-1,2-Dichloroethylene	13	20	3.4	µg/L	20	V-06, J	SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2-Dichloropropane	ND	20	3.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,3-Dichloropropane	ND	10	2.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
2,2-Dichloropropane	ND	20	6.5	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1-Dichloropropene	ND	40	3.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
cis-1,3-Dichloropropene	ND	10	3.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
trans-1,3-Dichloropropene	ND	10	3.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Diethyl Ether	ND	40	3.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-25 | Sampled: 11/29/2022 11:40

Sample ID: 22L0331-02

Sample Matrix: Ground 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
Diisopropyl Ether (DIPE)	ND	10	2.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,4-Dioxane	ND	1000	410	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Ethylbenzene	ND	20	4.3	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Hexachlorobutadiene	ND	12	9.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
2-Hexanone (MBK)	ND	200	22	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Isopropylbenzene (Cumene)	ND	20	2.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
p-Isopropyltoluene (p-Cymene)	ND	20	1.9	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Methyl Acetate	ND	20	9.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Methyl tert-Butyl Ether (MTBE)	ND	20	3.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Methyl Cyclohexane	ND	20	4.9	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Methylene Chloride	ND	100	4.7	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
4-Methyl-2-pentanone (MIBK)	ND	200	26	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Naphthalene	ND	40	4.9	µg/L	20	V-05	SW-846 8260D	12/7/22	12/7/22 17:49	MFF
n-Propylbenzene	ND	20	1.7	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Styrene	ND	20	2.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1,1,2-Tetrachloroethane	ND	20	3.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1,2,2-Tetrachloroethane	ND	10	2.5	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Tetrachloroethylene	ND	20	3.7	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Tetrahydrofuran	ND	200	9.8	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Toluene	ND	20	4.5	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2,3-Trichlorobenzene	ND	100	6.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2,4-Trichlorobenzene	ND	20	5.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,3,5-Trichlorobenzene	ND	20	4.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1,1-Trichloroethane	ND	20	3.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1,2-Trichloroethane	ND	20	3.7	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Trichloroethylene	31	20	3.8	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Trichlorofluoromethane (Freon 11)	ND	40	3.5	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2,3-Trichloropropane	ND	40	5.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	4.5	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2,4-Trimethylbenzene	ND	20	4.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,3,5-Trimethylbenzene	ND	20	2.3	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Vinyl Chloride	450	40	4.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
m+p Xylene	ND	40	9.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
o-Xylene	ND	20	4.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/7/22 17:49
Toluene-d8	98.2	70-130		12/7/22 17:49
4-Bromofluorobenzene	93.5	70-130		12/7/22 17:49

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-25 | Sampled: 11/29/2022 11:40

Sample ID: 22L0331-02

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.0049	0.014	0.0026	mg/L	1	J	RSK175	12/12/22	12/12/22 14:47	TPH
Ethene	0.064	0.017	0.0030	mg/L	1		RSK175	12/12/22	12/12/22 14:47	TPH
Methane	4.6	0.0070	0.0012	mg/L	1		RSK175	12/12/22	12/12/22 14:47	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-24 | Sampled: 11/29/2022 13:45

Sample ID: 22L0331-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	28	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
2-Butanone (MEK)	6.9	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
cis-1,2-Dichloroethylene	1.4	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-24 | Sampled: 11/29/2022 13:45

Sample ID: 22L0331-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Methyl Acetate	0.91	1.0	0.45	µg/L	1	V-06, J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Methyl tert-Butyl Ether (MTBE)	0.58	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Tetrahydrofuran	1.3	10	0.49	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Vinyl Chloride	0.22	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 12:09
Toluene-d8	99.3	70-130		12/7/22 12:09
4-Bromofluorobenzene	94.6	70-130		12/7/22 12:09

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-24 | Sampled: 11/29/2022 13:45

Sample ID: 22L0331-03

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 14:59	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/12/22	12/12/22 14:59	TPH
Methane	7.2	0.014	0.0024	mg/L	2		RSK175	12/12/22	12/12/22 15:24	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-19 | Sampled: 11/29/2022 14:50

Sample ID: 22L0331-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.6	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Benzene	3.5	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
cis-1,2-Dichloroethylene	27	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-19 | Sampled: 11/29/2022 14:50

Sample ID: 22L0331-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Methyl tert-Butyl Ether (MTBE)	0.98	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 12:35	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Toluene	0.98	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Trichloroethylene	1.3	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Vinyl Chloride	16	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 12:35
Toluene-d8	99.3	70-130		12/7/22 12:35
4-Bromofluorobenzene	93.9	70-130		12/7/22 12:35

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-19 | Sampled: 11/29/2022 14:50

Sample ID: 22L0331-04

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.019	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 15:35	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/12/22	12/12/22 15:35	TPH
Methane	8.2	0.014	0.0024	mg/L	2		RSK175	12/12/22	12/12/22 15:42	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14BR | Sampled: 11/29/2022 16:00

Sample ID: 22L0331-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.5	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Benzene	0.36	1.0	0.20	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
cis-1,2-Dichloroethylene	3.1	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14BR | Sampled: 11/29/2022 16:00

Sample ID: 22L0331-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 13:01	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Trichloroethylene	0.96	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Vinyl Chloride	0.59	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:01	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/7/22 13:01
Toluene-d8	97.8	70-130		12/7/22 13:01
4-Bromofluorobenzene	95.0	70-130		12/7/22 13:01

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14BR | Sampled: 11/29/2022 16:00

Sample ID: 22L0331-05

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.028	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 15:52	TPH
Ethene	0.0068	0.017	0.0030	mg/L	1	J	RSK175	12/12/22	12/12/22 15:52	TPH
Methane	8.1	0.014	0.0024	mg/L	2		RSK175	12/12/22	12/12/22 15:59	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-11 | Sampled: 11/29/2022 15:30

Sample ID: 22L0331-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.3	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
cis-1,2-Dichloroethylene	0.42	1.0	0.15	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:27	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-11 | Sampled: 11/29/2022 15:30

Sample ID: 22L0331-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Methyl tert-Butyl Ether (MTBE)	0.45	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 13:27	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 13:27
Toluene-d8	98.3	70-130		12/7/22 13:27
4-Bromofluorobenzene	96.4	70-130		12/7/22 13:27

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-11 | Sampled: 11/29/2022 15:30

Sample ID: 22L0331-06

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.072	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 16:14	TPH
Ethene	0.0034	0.017	0.0030	mg/L	1	J	RSK175	12/12/22	12/12/22 16:14	TPH
Methane	4.6	0.0070	0.0012	mg/L	1		RSK175	12/12/22	12/12/22 16:14	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-7 | Sampled: 11/29/2022 14:05

Sample ID: 22L0331-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	3.6	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Benzene	0.81	1.0	0.20	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
cis-1,2-Dichloroethylene	0.40	1.0	0.15	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:54	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-7 | Sampled: 11/29/2022 14:05

Sample ID: 22L0331-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Methyl tert-Butyl Ether (MTBE)	0.50	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 13:54	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/7/22 13:54
Toluene-d8	98.5	70-130		12/7/22 13:54
4-Bromofluorobenzene	93.4	70-130		12/7/22 13:54

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-7 | Sampled: 11/29/2022 14:05

Sample ID: 22L0331-07

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.063	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 16:31	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/12/22	12/12/22 16:31	TPH
Methane	12	0.035	0.0060	mg/L	5		RSK175	12/12/22	12/12/22 16:41	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-11 | Sampled: 11/29/2022 13:00

Sample ID: 22L0331-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.8	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
2-Butanone (MEK)	3.5	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
cis-1,2-Dichloroethylene	1.2	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-11 | Sampled: 11/29/2022 13:00

Sample ID: 22L0331-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Tetrahydrofuran	2.2	10	0.49	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Trichloroethylene	0.33	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Vinyl Chloride	0.61	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	116	70-130		12/7/22 14:20
Toluene-d8	98.4	70-130		12/7/22 14:20
4-Bromofluorobenzene	94.3	70-130		12/7/22 14:20

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-11 | Sampled: 11/29/2022 13:00

Sample ID: 22L0331-08

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 10:37	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 10:37	TPH
Methane	12	0.035	0.0060	mg/L	5		RSK175	12/13/22	12/13/22 10:50	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-14 | Sampled: 11/29/2022 11:15

Sample ID: 22L0331-09

Sample Matrix: Ground 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	12/7/22	12/7/22 14:46	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Benzene	1.2	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
2-Butanone (MEK)	13	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:46	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
cis-1,2-Dichloroethylene	1.7	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
trans-1,2-Dichloroethylene	0.21	1.0	0.17	µg/L	1	V-06, J	SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-14 | Sampled: 11/29/2022 11:15

Sample ID: 22L0331-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 14:46	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Toluene	0.39	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Vinyl Chloride	1.5	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:46	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		12/7/22 14:46
Toluene-d8	98.7	70-130		12/7/22 14:46
4-Bromofluorobenzene	92.9	70-130		12/7/22 14:46

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-14 | Sampled: 11/29/2022 11:15

Sample ID: 22L0331-09

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.068	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 10:57	TPH
Ethene	0.0067	0.017	0.0030	mg/L	1	J	RSK175	12/13/22	12/13/22 10:57	TPH
Methane	11	0.035	0.0060	mg/L	5		RSK175	12/13/22	12/13/22 11:08	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-17 | Sampled: 11/29/2022 09:55

Sample ID: 22L0331-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	9.6	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Benzene	1.7	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
2-Butanone (MEK)	12	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	MS-07A, V-05	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1-Dichloroethane	0.81	1.0	0.14	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2-Dichloroethane	0.86	1.0	0.31	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
cis-1,2-Dichloroethylene	11	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1	MS-07A	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Diethyl Ether	0.75	2.0	0.18	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-17 | Sampled: 11/29/2022 09:55

Sample ID: 22L0331-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	0.26	0.50	0.13	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,4-Dioxane	ND	50	21	µg/L	1	R-06	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Methyl Acetate	2.0	1.0	0.45	µg/L	1	MS-12, V-06	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Methyl tert-Butyl Ether (MTBE)	0.56	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Toluene	0.33	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Vinyl Chloride	11	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		12/7/22 23:55
Toluene-d8	99.0	70-130		12/7/22 23:55
4-Bromofluorobenzene	95.6	70-130		12/7/22 23:55

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-17 | Sampled: 11/29/2022 09:55

Sample ID: 22L0331-10

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.16	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 11:15	TPH
Ethene	0.12	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 11:15	TPH
Methane	13	0.035	0.0060	mg/L	5		RSK175	12/13/22	12/13/22 11:23	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-3 | Sampled: 11/30/2022 09:20

Sample ID: 22L0331-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	19	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
2-Butanone (MEK)	11	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 15:12	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
cis-1,2-Dichloroethylene	3.9	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
trans-1,2-Dichloroethylene	0.34	1.0	0.17	µg/L	1	V-06, J	SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-3 | Sampled: 11/30/2022 09:20

Sample ID: 22L0331-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 15:12	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Tetrahydrofuran	36	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Vinyl Chloride	1.1	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 15:12	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 15:12
Toluene-d8	98.6	70-130		12/7/22 15:12
4-Bromofluorobenzene	93.8	70-130		12/7/22 15:12

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-3 | Sampled: 11/30/2022 09:20

Sample ID: 22L0331-11

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 15:04	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 15:04	TPH
Methane	5.3	0.014	0.0024	mg/L	2		RSK175	12/13/22	12/13/22 14:46	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-15 | Sampled: 11/30/2022 10:35

Sample ID: 22L0331-12

Sample Matrix: Ground 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	12/7/22	12/7/22 15:38	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-15 | Sampled: 11/30/2022 10:35

Sample ID: 22L0331-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 15:38	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	116	70-130		12/7/22 15:38
Toluene-d8	100	70-130		12/7/22 15:38
4-Bromofluorobenzene	94.8	70-130		12/7/22 15:38

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-15 | Sampled: 11/30/2022 10:35

Sample ID: 22L0331-12

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 15:16	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 15:16	TPH
Methane	0.030	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 15:16	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-15BR | Sampled: 11/30/2022 11:45

Sample ID: 22L0331-13

Sample Matrix: Ground 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	12/7/22	12/7/22 16:04	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Benzene	1.4	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
cis-1,2-Dichloroethylene	43	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-15BR | Sampled: 11/30/2022 11:45

Sample ID: 22L0331-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Methyl tert-Butyl Ether (MTBE)	0.45	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 16:04	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Trichloroethylene	2.0	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Vinyl Chloride	16	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/7/22 16:04
Toluene-d8	99.2	70-130		12/7/22 16:04
4-Bromofluorobenzene	94.1	70-130		12/7/22 16:04

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-15BR | Sampled: 11/30/2022 11:45

Sample ID: 22L0331-13

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.078	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 15:31	TPH
Ethene	0.039	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 15:31	TPH
Methane	4.2	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 15:31	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-1 | Sampled: 11/30/2022 13:30

Sample ID: 22L0331-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	75	50	2.0	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
2-Butanone (MEK)	15	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:31	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-1 | Sampled: 11/30/2022 13:30

Sample ID: 22L0331-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 16:31	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Tetrahydrofuran	11	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Toluene	0.25	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 16:31
Toluene-d8	98.2	70-130		12/7/22 16:31
4-Bromofluorobenzene	95.2	70-130		12/7/22 16:31

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-1 | Sampled: 11/30/2022 13:30

Sample ID: 22L0331-14

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 15:38	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 15:38	TPH
Methane	7.3	0.014	0.0024	mg/L	2		RSK175	12/13/22	12/13/22 15:50	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-2 | Sampled: 11/30/2022 15:15

Sample ID: 22L0331-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	26	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
2-Butanone (MEK)	3.5	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:57	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-2 | Sampled: 11/30/2022 15:15

Sample ID: 22L0331-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 16:57	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Tetrahydrofuran	2.6	10	0.49	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Toluene	0.30	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 16:57
Toluene-d8	99.5	70-130		12/7/22 16:57
4-Bromofluorobenzene	92.0	70-130		12/7/22 16:57

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-2 | Sampled: 11/30/2022 15:15

Sample ID: 22L0331-15

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 16:10	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 16:10	TPH
Methane	0.20	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 16:10	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-13 | Sampled: 11/30/2022 10:35

Sample ID: 22L0331-16

Sample Matrix: Ground 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	500	20	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Acrylonitrile	ND	50	5.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	1.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Benzene	ND	10	2.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Bromobenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Bromochloromethane	ND	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Bromodichloromethane	ND	5.0	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Bromoform	ND	10	3.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Bromomethane	ND	20	15	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
2-Butanone (MEK)	ND	200	16	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
tert-Butyl Alcohol (TBA)	ND	200	47	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
n-Butylbenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
sec-Butylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
tert-Butylbenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Carbon Disulfide	ND	50	14	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Carbon Tetrachloride	ND	50	1.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Chlorobenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Chlorodibromomethane	ND	5.0	2.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Chloroethane	ND	20	3.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Chloroform	ND	20	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Chloromethane	ND	20	5.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
2-Chlorotoluene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
4-Chlorotoluene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	8.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Dibromomethane	ND	10	3.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,3-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,4-Dichlorobenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
trans-1,4-Dichloro-2-butene	ND	20	16	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1-Dichloroethane	ND	10	1.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2-Dichloroethane	ND	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1-Dichloroethylene	1.8	10	1.4	µg/L	10	J	SW-846 8260D	12/7/22	12/7/22 18:15	MFF
cis-1,2-Dichloroethylene	810	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
trans-1,2-Dichloroethylene	11	10	1.7	µg/L	10	V-06	SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2-Dichloropropane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,3-Dichloropropane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
2,2-Dichloropropane	ND	10	3.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1-Dichloropropene	ND	20	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
cis-1,3-Dichloropropene	ND	5.0	1.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
trans-1,3-Dichloropropene	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Diethyl Ether	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-13 | Sampled: 11/30/2022 10:35

Sample ID: 22L0331-16

Sample Matrix: Ground 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
Diisopropyl Ether (DIPE)	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,4-Dioxane	ND	500	210	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Ethylbenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Hexachlorobutadiene	ND	6.0	4.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
2-Hexanone (MBK)	ND	100	11	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Isopropylbenzene (Cumene)	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	0.97	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Methyl Acetate	ND	10	4.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Methyl Cyclohexane	3.2	10	2.4	µg/L	10	J	SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Methylene Chloride	ND	50	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	13	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Naphthalene	ND	20	2.4	µg/L	10	V-05	SW-846 8260D	12/7/22	12/7/22 18:15	MFF
n-Propylbenzene	ND	10	0.86	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Styrene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1,1,2-Tetrachloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Tetrachloroethylene	1000	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Tetrahydrofuran	ND	100	4.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Toluene	ND	10	2.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2,3-Trichlorobenzene	ND	50	3.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2,4-Trichlorobenzene	ND	10	2.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,3,5-Trichlorobenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1,1-Trichloroethane	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1,2-Trichloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Trichloroethylene	490	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2,3-Trichloropropane	ND	20	2.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2,4-Trimethylbenzene	ND	10	2.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,3,5-Trimethylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Vinyl Chloride	76	20	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
m+p Xylene	ND	20	4.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
o-Xylene	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/7/22 18:15
Toluene-d8	99.0	70-130		12/7/22 18:15
4-Bromofluorobenzene	94.5	70-130		12/7/22 18:15

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-13 | Sampled: 11/30/2022 10:35

Sample ID: 22L0331-16

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.027	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 16:19	TPH
Ethene	0.0054	0.017	0.0030	mg/L	1	J	RSK175	12/13/22	12/13/22 16:19	TPH
Methane	1.4	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 16:19	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-9 | Sampled: 11/30/2022 11:30

Sample ID: 22L0331-17

Sample Matrix: Ground 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	500	20	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Acrylonitrile	ND	50	5.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	1.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Benzene	ND	10	2.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Bromobenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Bromochloromethane	ND	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Bromodichloromethane	ND	5.0	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Bromoform	ND	10	3.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Bromomethane	ND	20	15	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
2-Butanone (MEK)	ND	200	16	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
tert-Butyl Alcohol (TBA)	ND	200	47	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
n-Butylbenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
sec-Butylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
tert-Butylbenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Carbon Disulfide	ND	50	14	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Carbon Tetrachloride	ND	50	1.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Chlorobenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Chlorodibromomethane	ND	5.0	2.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Chloroethane	ND	20	3.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Chloroform	ND	20	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Chloromethane	ND	20	5.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
2-Chlorotoluene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
4-Chlorotoluene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	8.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Dibromomethane	ND	10	3.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,3-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,4-Dichlorobenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
trans-1,4-Dichloro-2-butene	ND	20	16	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1-Dichloroethane	ND	10	1.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2-Dichloroethane	ND	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1-Dichloroethylene	ND	10	1.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
cis-1,2-Dichloroethylene	840	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
trans-1,2-Dichloroethylene	9.1	10	1.7	µg/L	10	V-06, J	SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2-Dichloropropane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,3-Dichloropropane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
2,2-Dichloropropane	ND	10	3.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1-Dichloropropene	ND	20	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
cis-1,3-Dichloropropene	ND	5.0	1.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
trans-1,3-Dichloropropene	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Diethyl Ether	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-9 | Sampled: 11/30/2022 11:30

Sample ID: 22L0331-17

Sample Matrix: Ground 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
Diisopropyl Ether (DIPE)	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,4-Dioxane	ND	500	210	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Ethylbenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Hexachlorobutadiene	ND	6.0	4.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
2-Hexanone (MBK)	ND	100	11	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Isopropylbenzene (Cumene)	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	0.97	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Methyl Acetate	ND	10	4.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Methyl Cyclohexane	ND	10	2.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Methylene Chloride	ND	50	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	13	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Naphthalene	ND	20	2.4	µg/L	10	V-05	SW-846 8260D	12/7/22	12/7/22 18:41	MFF
n-Propylbenzene	ND	10	0.86	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Styrene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1,1,2-Tetrachloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Tetrachloroethylene	460	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Tetrahydrofuran	ND	100	4.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Toluene	ND	10	2.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2,3-Trichlorobenzene	ND	50	3.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2,4-Trichlorobenzene	ND	10	2.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,3,5-Trichlorobenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1,1-Trichloroethane	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1,2-Trichloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Trichloroethylene	370	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2,3-Trichloropropane	ND	20	2.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2,4-Trimethylbenzene	ND	10	2.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,3,5-Trimethylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Vinyl Chloride	110	20	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
m+p Xylene	ND	20	4.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
o-Xylene	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/7/22 18:41
Toluene-d8	99.8	70-130		12/7/22 18:41
4-Bromofluorobenzene	93.9	70-130		12/7/22 18:41

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-9 | Sampled: 11/30/2022 11:30

Sample ID: 22L0331-17

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.036	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 16:32	TPH
Ethene	0.0056	0.017	0.0030	mg/L	1	J	RSK175	12/13/22	12/13/22 16:32	TPH
Methane	2.1	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 16:32	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-10BR | Sampled: 11/30/2022 08:55

Sample ID: 22L0331-18

Sample Matrix: Ground 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	12/7/22	12/7/22 17:23	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-10BR | Sampled: 11/30/2022 08:55

Sample ID: 22L0331-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Methyl tert-Butyl Ether (MTBE)	1.3	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 17:23	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 17:23
Toluene-d8	98.9	70-130		12/7/22 17:23
4-Bromofluorobenzene	93.0	70-130		12/7/22 17:23

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-10BR | Sampled: 11/30/2022 08:55

Sample ID: 22L0331-18

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.024	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 17:52	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 17:52	TPH
Methane	1.8	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 17:52	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-5 | Sampled: 11/30/2022 15:10

Sample ID: 22L0331-19

Sample Matrix: Ground 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	12/7/22	12/8/22 0:21	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
cis-1,2-Dichloroethylene	0.58	1.0	0.15	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-5 | Sampled: 11/30/2022 15:10

Sample ID: 22L0331-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Tetrachloroethylene	0.82	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Trichloroethylene	0.54	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		12/8/22 0:21
Toluene-d8	98.4	70-130		12/8/22 0:21
4-Bromofluorobenzene	94.8	70-130		12/8/22 0:21

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-5 | Sampled: 11/30/2022 15:10

Sample ID: 22L0331-19

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 18:03	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 18:03	TPH
Methane	0.0062	0.0070	0.0012	mg/L	1	J	RSK175	12/13/22	12/13/22 18:03	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14 | Sampled: 11/30/2022 13:40

Sample ID: 22L0331-20

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	20	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Benzene	1.3	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
cis-1,2-Dichloroethylene	1.7	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14 | Sampled: 11/30/2022 13:40

Sample ID: 22L0331-20

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Methyl tert-Butyl Ether (MTBE)	0.25	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Tetrachloroethylene	1.7	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Tetrahydrofuran	1.5	10	0.49	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Toluene	0.40	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Trichloroethylene	1.1	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Vinyl Chloride	0.37	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/8/22 0:47
Toluene-d8	97.3	70-130		12/8/22 0:47
4-Bromofluorobenzene	96.3	70-130		12/8/22 0:47

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14 | Sampled: 11/30/2022 13:40

Sample ID: 22L0331-20

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.014	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 18:10	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 18:10	TPH
Methane	6.1	0.014	0.0024	mg/L	2		RSK175	12/13/22	12/13/22 18:17	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-17 | Sampled: 12/1/2022 09:30

Sample ID: 22L0331-21

Sample Matrix: Ground 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	12/7/22	12/8/22 1:14	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-17 | Sampled: 12/1/2022 09:30

Sample ID: 22L0331-21

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 1:14	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		12/8/22 1:14
Toluene-d8	98.2	70-130		12/8/22 1:14
4-Bromofluorobenzene	96.1	70-130		12/8/22 1:14

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-17 | Sampled: 12/1/2022 09:30

Sample ID: 22L0331-21

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 11:36	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 11:36	TPH
Methane	0.0019	0.0070	0.0012	mg/L	1	J	RSK175	12/14/22	12/14/22 11:36	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-17BR | Sampled: 12/1/2022 10:45

Sample ID: 22L0331-22

Sample Matrix: Ground 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	12/7/22	12/8/22 1:40	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-17BR | Sampled: 12/1/2022 10:45

Sample ID: 22L0331-22

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 1:40	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		12/8/22 1:40
Toluene-d8	97.3	70-130		12/8/22 1:40
4-Bromofluorobenzene	93.9	70-130		12/8/22 1:40

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-17BR | Sampled: 12/1/2022 10:45

Sample ID: 22L0331-22

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 11:54	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 11:54	TPH
Methane	0.0020	0.0070	0.0012	mg/L	1	J	RSK175	12/14/22	12/14/22 11:54	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-16 | Sampled: 12/1/2022 13:25

Sample ID: 22L0331-23

Sample Matrix: Ground 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	12/7/22	12/8/22 2:06	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-16 | Sampled: 12/1/2022 13:25

Sample ID: 22L0331-23

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 2:06	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Trichloroethylene	0.52	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		12/8/22 2:06
Toluene-d8	98.6	70-130		12/8/22 2:06
4-Bromofluorobenzene	95.8	70-130		12/8/22 2:06

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-16 | Sampled: 12/1/2022 13:25

Sample ID: 22L0331-23

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 12:06	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 12:06	TPH
Methane	0.0016	0.0070	0.0012	mg/L	1	J	RSK175	12/14/22	12/14/22 12:06	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-16BR | Sampled: 12/1/2022 12:20

Sample ID: 22L0331-24

Sample Matrix: Ground 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	12/7/22	12/8/22 2:32	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-16BR | Sampled: 12/1/2022 12:20

Sample ID: 22L0331-24

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 2:32	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/8/22 2:32
Toluene-d8	98.9	70-130		12/8/22 2:32
4-Bromofluorobenzene	95.9	70-130		12/8/22 2:32

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-16BR | Sampled: 12/1/2022 12:20

Sample ID: 22L0331-24

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 12:14	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 12:14	TPH
Methane	ND	0.0070	0.0012	mg/L	1		RSK175	12/14/22	12/14/22 12:14	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-1R | Sampled: 12/1/2022 14:20

Sample ID: 22L0331-25

Sample Matrix: Ground 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	4.1	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Acrylonitrile	ND	10	1.1	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	1.0	0.29	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Benzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Bromobenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Bromochloromethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Bromodichloromethane	ND	1.0	0.36	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Bromoform	ND	2.0	0.77	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Bromomethane	ND	4.0	3.1	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
2-Butanone (MEK)	ND	40	3.2	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
tert-Butyl Alcohol (TBA)	ND	40	9.4	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
n-Butylbenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
sec-Butylbenzene	ND	2.0	0.22	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
tert-Butylbenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	0.30	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Carbon Disulfide	ND	10	2.9	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Chlorobenzene	ND	2.0	0.21	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Chlorodibromomethane	ND	1.0	0.44	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Chloroethane	ND	4.0	0.64	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Chloroform	ND	4.0	0.34	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Chloromethane	ND	4.0	1.0	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
2-Chlorotoluene	ND	2.0	0.23	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
4-Chlorotoluene	ND	2.0	0.24	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	1.6	µg/L	2	V-05	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2-Dibromoethane (EDB)	ND	1.0	0.34	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Dibromomethane	ND	2.0	0.71	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,3-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
trans-1,4-Dichloro-2-butene	ND	4.0	3.2	µg/L	2	V-05	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.38	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1-Dichloroethane	0.84	2.0	0.28	µg/L	2	J	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2-Dichloroethane	ND	2.0	0.62	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1-Dichloroethylene	0.66	2.0	0.28	µg/L	2	J	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
cis-1,2-Dichloroethylene	150	2.0	0.29	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
trans-1,2-Dichloroethylene	1.4	2.0	0.34	µg/L	2	J	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2-Dichloropropane	ND	2.0	0.36	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,3-Dichloropropane	ND	1.0	0.26	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
2,2-Dichloropropane	ND	2.0	0.65	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1-Dichloropropene	ND	4.0	0.30	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
cis-1,3-Dichloropropene	ND	1.0	0.32	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
trans-1,3-Dichloropropene	ND	1.0	0.34	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Diethyl Ether	ND	4.0	0.36	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-1R | Sampled: 12/1/2022 14:20

Sample ID: 22L0331-25

Sample Matrix: Ground 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
Diisopropyl Ether (DIPE)	ND	1.0	0.26	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,4-Dioxane	ND	100	41	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Ethylbenzene	ND	2.0	0.43	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Hexachlorobutadiene	ND	1.2	0.91	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
2-Hexanone (MBK)	ND	20	2.2	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Isopropylbenzene (Cumene)	ND	2.0	0.22	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.19	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Methyl Acetate	ND	2.0	0.91	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Methyl Cyclohexane	ND	2.0	0.49	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Methylene Chloride	ND	10	0.47	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Naphthalene	ND	4.0	0.49	µg/L	2	V-05	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
n-Propylbenzene	ND	2.0	0.17	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Styrene	ND	2.0	0.21	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1,1,2-Tetrachloroethane	ND	2.0	0.36	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Tetrachloroethylene	200	2.0	0.37	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Tetrahydrofuran	ND	20	0.98	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2,3-Trichlorobenzene	ND	10	0.61	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2,4-Trichlorobenzene	ND	2.0	0.50	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,3,5-Trichlorobenzene	ND	2.0	0.42	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1,1-Trichloroethane	ND	2.0	0.34	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1,2-Trichloroethane	ND	2.0	0.37	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Trichloroethylene	71	2.0	0.38	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Trichlorofluoromethane (Freon 11)	ND	4.0	0.35	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2,3-Trichloropropane	ND	4.0	0.56	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.45	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2,4-Trimethylbenzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,3,5-Trimethylbenzene	ND	2.0	0.23	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Vinyl Chloride	32	4.0	0.42	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
m+p Xylene	ND	4.0	0.92	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
o-Xylene	ND	2.0	0.46	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		12/8/22 6:28
Toluene-d8	97.2	70-130		12/8/22 6:28
4-Bromofluorobenzene	93.5	70-130		12/8/22 6:28

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-1R | Sampled: 12/1/2022 14:20

Sample ID: 22L0331-25

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.14	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 12:22	TPH
Ethene	0.026	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 12:22	TPH
Methane	2.4	0.0070	0.0012	mg/L	1		RSK175	12/14/22	12/14/22 12:22	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-7 | Sampled: 12/1/2022 12:40

Sample ID: 22L0331-26

Sample Matrix: Ground 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	12/7/22	12/8/22 2:58	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Benzene	0.24	1.0	0.20	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
cis-1,2-Dichloroethylene	5.9	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-7 | Sampled: 12/1/2022 12:40

Sample ID: 22L0331-26

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 2:58	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Vinyl Chloride	16	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/8/22 2:58
Toluene-d8	97.6	70-130		12/8/22 2:58
4-Bromofluorobenzene	93.6	70-130		12/8/22 2:58

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-7 | Sampled: 12/1/2022 12:40

Sample ID: 22L0331-26

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.091	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 12:51	TPH
Ethene	0.011	0.017	0.0030	mg/L	1	J	RSK175	12/14/22	12/14/22 12:51	TPH
Methane	8.0	0.014	0.0024	mg/L	2		RSK175	12/14/22	12/14/22 13:00	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-12 | Sampled: 12/1/2022 10:50

Sample ID: 22L0331-27

Sample Matrix: Ground 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	12/7/22	12/8/22 3:24	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Benzene	0.21	1.0	0.20	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Chloroethane	53	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
cis-1,2-Dichloroethylene	0.84	1.0	0.15	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-12 | Sampled: 12/1/2022 10:50

Sample ID: 22L0331-27

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Toluene	0.50	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Trichloroethylene	0.69	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/8/22 3:24
Toluene-d8	98.0	70-130		12/8/22 3:24
4-Bromofluorobenzene	94.4	70-130		12/8/22 3:24

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-12 | Sampled: 12/1/2022 10:50

Sample ID: 22L0331-27

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.044	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 13:23	TPH
Ethene	0.0052	0.017	0.0030	mg/L	1	J	RSK175	12/14/22	12/14/22 13:23	TPH
Methane	12	0.035	0.0060	mg/L	5		RSK175	12/14/22	12/14/22 13:33	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-2 | Sampled: 12/1/2022 09:10

Sample ID: 22L0331-28

Sample Matrix: Ground 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	12/7/22	12/8/22 3:51	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Bromodichloromethane	0.70	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Chlorodibromomethane	0.33	0.50	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Chloroform	1.3	2.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
cis-1,2-Dichloroethylene	0.63	1.0	0.15	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-2 | Sampled: 12/1/2022 09:10

Sample ID: 22L0331-28

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Tetrachloroethylene	15	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Trichloroethylene	1.8	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/8/22 3:51
Toluene-d8	98.6	70-130		12/8/22 3:51
4-Bromofluorobenzene	94.9	70-130		12/8/22 3:51

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-2 | Sampled: 12/1/2022 09:10

Sample ID: 22L0331-28

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 13:43	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 13:43	TPH
Methane	0.0084	0.0070	0.0012	mg/L	1		RSK175	12/14/22	12/14/22 13:43	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: DUP-112922-1 | Sampled: 11/29/2022 00:00

Sample ID: 22L0331-29

Sample Matrix: Ground 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	500	20	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Acrylonitrile	ND	50	5.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	1.4	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Benzene	2.4	10	2.0	µg/L	10	J	SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Bromobenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Bromochloromethane	ND	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Bromodichloromethane	ND	5.0	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Bromoform	ND	10	3.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Bromomethane	ND	20	15	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
2-Butanone (MEK)	ND	200	16	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
tert-Butyl Alcohol (TBA)	ND	200	47	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
n-Butylbenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
sec-Butylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
tert-Butylbenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	1.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Carbon Disulfide	ND	50	14	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Carbon Tetrachloride	ND	50	1.6	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Chlorobenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Chlorodibromomethane	ND	5.0	2.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Chloroethane	ND	20	3.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Chloroform	ND	20	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Chloromethane	ND	20	5.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
2-Chlorotoluene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
4-Chlorotoluene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	8.0	µg/L	10	V-05	SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Dibromomethane	ND	10	3.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,3-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,4-Dichlorobenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
trans-1,4-Dichloro-2-butene	ND	20	16	µg/L	10	V-05	SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.9	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1-Dichloroethane	ND	10	1.4	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2-Dichloroethane	ND	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1-Dichloroethylene	2.0	10	1.4	µg/L	10	J	SW-846 8260D	12/7/22	12/8/22 6:54	MFF
cis-1,2-Dichloroethylene	1300	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
trans-1,2-Dichloroethylene	12	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2-Dichloropropane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,3-Dichloropropane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
2,2-Dichloropropane	ND	10	3.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1-Dichloropropene	ND	20	1.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
cis-1,3-Dichloropropene	ND	5.0	1.6	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
trans-1,3-Dichloropropene	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Diethyl Ether	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: DUP-112922-1 | Sampled: 11/29/2022 00:00

Sample ID: 22L0331-29

Sample Matrix: Ground 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
Diisopropyl Ether (DIPE)	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,4-Dioxane	ND	500	210	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Ethylbenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Hexachlorobutadiene	ND	6.0	4.6	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
2-Hexanone (MBK)	ND	100	11	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Isopropylbenzene (Cumene)	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	0.97	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Methyl Acetate	ND	10	4.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Methyl Cyclohexane	ND	10	2.4	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Methylene Chloride	ND	50	2.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	13	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Naphthalene	ND	20	2.4	µg/L	10	V-05	SW-846 8260D	12/7/22	12/8/22 6:54	MFF
n-Propylbenzene	ND	10	0.86	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Styrene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1,1,2-Tetrachloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Tetrachloroethylene	ND	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Tetrahydrofuran	ND	100	4.9	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Toluene	ND	10	2.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2,3-Trichlorobenzene	ND	50	3.0	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2,4-Trichlorobenzene	ND	10	2.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,3,5-Trichlorobenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1,1-Trichloroethane	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1,2-Trichloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Trichloroethylene	30	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2,3-Trichloropropane	ND	20	2.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2,4-Trimethylbenzene	ND	10	2.0	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,3,5-Trimethylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Vinyl Chloride	420	20	2.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
m+p Xylene	ND	20	4.6	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
o-Xylene	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/8/22 6:54
Toluene-d8	97.0	70-130		12/8/22 6:54
4-Bromofluorobenzene	95.3	70-130		12/8/22 6:54

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: DUP-112922-1 | Sampled: 11/29/2022 00:00

Sample ID: 22L0331-29

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.090	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 12:22	TPH
Ethene	0.072	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 12:22	TPH
Methane	4.4	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 12:22	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: DUP-112922-2 | Sampled: 11/29/2022 00:00

Sample ID: 22L0331-30

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	9.4	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Benzene	1.8	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
2-Butanone (MEK)	12	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1-Dichloroethane	0.86	1.0	0.14	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2-Dichloroethane	0.90	1.0	0.31	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
cis-1,2-Dichloroethylene	11	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Diethyl Ether	0.81	2.0	0.18	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: DUP-112922-2 | Sampled: 11/29/2022 00:00

Sample ID: 22L0331-30

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	0.28	0.50	0.13	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Methyl Acetate	1.8	1.0	0.45	µg/L	1	V-06	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Methyl tert-Butyl Ether (MTBE)	0.57	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Toluene	0.30	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Vinyl Chloride	11	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/8/22 4:17
Toluene-d8	98.6	70-130		12/8/22 4:17
4-Bromofluorobenzene	94.1	70-130		12/8/22 4:17

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: DUP-112922-2 | Sampled: 11/29/2022 00:00

Sample ID: 22L0331-30

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.17	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 12:45	TPH
Ethene	0.13	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 12:45	TPH
Methane	12	0.035	0.0060	mg/L	5		RSK175	12/13/22	12/13/22 12:52	TPH

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: Trip Blank | Sampled: 11/29/2022 09:40

Sample ID: 22L0331-31

Sample Matrix: Ground 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	12/7/22	12/7/22 23:29	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Chloroform	0.92	2.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: Trip Blank | Sampled: 11/29/2022 09:40

Sample ID: 22L0331-31

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 23:29	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		12/7/22 23:29
Toluene-d8	97.4	70-130		12/7/22 23:29
4-Bromofluorobenzene	95.1	70-130		12/7/22 23:29

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: Trip Blank | Sampled: 11/29/2022 09:40

Sample ID: 22L0331-31

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 13:30	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 13:30	TPH
Methane	0.013	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 13:30	TPH

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Sample Extraction Data

Prep Method: RSK175 **Analytical Method: RSK175**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22L0331-01 [IW-29]	B325948	1.00	1.00	12/12/22
22L0331-01RE1 [IW-29]	B325948	1.00	1.00	12/12/22
22L0331-02 [IW-25]	B325948	1.00	1.00	12/12/22
22L0331-03 [IW-24]	B325948	1.00	1.00	12/12/22
22L0331-03RE1 [IW-24]	B325948	1.00	1.00	12/12/22
22L0331-04 [IW-19]	B325948	1.00	1.00	12/12/22
22L0331-04RE1 [IW-19]	B325948	1.00	1.00	12/12/22
22L0331-05 [MW-14BR]	B325948	1.00	1.00	12/12/22
22L0331-05RE1 [MW-14BR]	B325948	1.00	1.00	12/12/22
22L0331-06 [MW-11]	B325948	1.00	1.00	12/12/22
22L0331-07 [IW-7]	B325948	1.00	1.00	12/12/22
22L0331-07RE1 [IW-7]	B325948	1.00	1.00	12/12/22

Prep Method: RSK175 **Analytical Method: RSK175**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22L0331-08 [IW-11]	B325949	1.00	1.00	12/13/22
22L0331-08RE1 [IW-11]	B325949	1.00	1.00	12/13/22
22L0331-09 [IW-14]	B325949	1.00	1.00	12/13/22
22L0331-09RE1 [IW-14]	B325949	1.00	1.00	12/13/22
22L0331-10 [IW-17]	B325949	1.00	1.00	12/13/22
22L0331-10RE1 [IW-17]	B325949	1.00	1.00	12/13/22
22L0331-11 [IW-3]	B325949	1.00	1.00	12/13/22
22L0331-11RE1 [IW-3]	B325949	1.00	1.00	12/13/22
22L0331-12 [MW-15]	B325949	1.00	1.00	12/13/22
22L0331-13 [MW-15BR]	B325949	1.00	1.00	12/13/22
22L0331-14 [IW-1]	B325949	1.00	1.00	12/13/22
22L0331-14RE1 [IW-1]	B325949	1.00	1.00	12/13/22
22L0331-15 [IW-2]	B325949	1.00	1.00	12/13/22
22L0331-16 [MW-13]	B325949	1.00	1.00	12/13/22
22L0331-17 [MW-9]	B325949	1.00	1.00	12/13/22
22L0331-18 [MW-10BR]	B325949	1.00	1.00	12/13/22
22L0331-19 [MW-5]	B325949	1.00	1.00	12/13/22
22L0331-20 [MW-14]	B325949	1.00	1.00	12/13/22
22L0331-20RE1 [MW-14]	B325949	1.00	1.00	12/13/22
22L0331-29 [DUP-112922-1]	B325949	1.00	1.00	12/13/22
22L0331-30 [DUP-112922-2]	B325949	1.00	1.00	12/13/22
22L0331-30RE1 [DUP-112922-2]	B325949	1.00	1.00	12/13/22
22L0331-31 [Trip Blank]	B325949	1.00	1.00	12/13/22

Prep Method: RSK175 **Analytical Method: RSK175**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22L0331-21 [MW-17]	B325950	1.00	1.00	12/14/22
22L0331-22 [MW-17BR]	B325950	1.00	1.00	12/14/22
22L0331-23 [MW-16]	B325950	1.00	1.00	12/14/22
22L0331-24 [MW-16BR]	B325950	1.00	1.00	12/14/22
22L0331-25 [MW-1R]	B325950	1.00	1.00	12/14/22
22L0331-26 [MW-7]	B325950	1.00	1.00	12/14/22
22L0331-26RE1 [MW-7]	B325950	1.00	1.00	12/14/22
22L0331-27 [MW-12]	B325950	1.00	1.00	12/14/22
22L0331-27RE1 [MW-12]	B325950	1.00	1.00	12/14/22
22L0331-28 [MW-2]	B325950	1.00	1.00	12/14/22

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Sample Extraction Data

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22L0331-01 [IW-29]	B324990	5	5.00	12/07/22
22L0331-02 [IW-25]	B324990	0.25	5.00	12/07/22
22L0331-03 [IW-24]	B324990	5	5.00	12/07/22
22L0331-04 [IW-19]	B324990	5	5.00	12/07/22
22L0331-05 [MW-14BR]	B324990	5	5.00	12/07/22
22L0331-06 [MW-11]	B324990	5	5.00	12/07/22
22L0331-07 [IW-7]	B324990	5	5.00	12/07/22
22L0331-08 [IW-11]	B324990	5	5.00	12/07/22
22L0331-09 [IW-14]	B324990	5	5.00	12/07/22
22L0331-11 [IW-3]	B324990	5	5.00	12/07/22
22L0331-12 [MW-15]	B324990	5	5.00	12/07/22
22L0331-13 [MW-15BR]	B324990	5	5.00	12/07/22
22L0331-14 [IW-1]	B324990	5	5.00	12/07/22
22L0331-15 [IW-2]	B324990	5	5.00	12/07/22
22L0331-16 [MW-13]	B324990	0.5	5.00	12/07/22
22L0331-17 [MW-9]	B324990	0.5	5.00	12/07/22
22L0331-18 [MW-10BR]	B324990	5	5.00	12/07/22

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22L0331-10 [IW-17]	B324991	5	5.00	12/07/22
22L0331-19 [MW-5]	B324991	5	5.00	12/07/22
22L0331-20 [MW-14]	B324991	5	5.00	12/07/22
22L0331-21 [MW-17]	B324991	5	5.00	12/07/22
22L0331-22 [MW-17BR]	B324991	5	5.00	12/07/22
22L0331-23 [MW-16]	B324991	5	5.00	12/07/22
22L0331-24 [MW-16BR]	B324991	5	5.00	12/07/22
22L0331-25 [MW-1R]	B324991	2.5	5.00	12/07/22
22L0331-26 [MW-7]	B324991	5	5.00	12/07/22
22L0331-27 [MW-12]	B324991	5	5.00	12/07/22
22L0331-28 [MW-2]	B324991	5	5.00	12/07/22
22L0331-29 [DUP-112922-1]	B324991	0.5	5.00	12/07/22
22L0331-30 [DUP-112922-2]	B324991	5	5.00	12/07/22
22L0331-31 [Trip Blank]	B324991	5	5.00	12/07/22

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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 B324990 - SW-846 5030B										
Blank (B324990-BLK1)				Prepared & Analyzed: 12/07/22						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	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							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	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							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	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							
trans-1,4-Dichloro-2-butene	ND	2.0	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							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	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 B324990 - SW-846 5030B										
Blank (B324990-BLK1)				Prepared & Analyzed: 12/07/22						
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							
Naphthalene	ND	2.0	µg/L							V-05
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	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							
1,3,5-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							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	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							
Surrogate: 1,2-Dichloroethane-d4	*28.0*		µg/L	25.0		112	70-130			
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	*23.3*		µg/L	25.0		93.1	70-130			
LCS (B324990-BS1)				Prepared & Analyzed: 12/07/22						
Acetone	120	50	µg/L	100		120	70-160			†
Acrylonitrile	11.0	5.0	µg/L	10.0		110	70-130			
tert-Amyl Methyl Ether (TAME)	9.44	0.50	µg/L	10.0		94.4	70-130			
Benzene	10.7	1.0	µg/L	10.0		107	70-130			
Bromobenzene	10.2	1.0	µg/L	10.0		102	70-130			
Bromochloromethane	11.2	1.0	µg/L	10.0		112	70-130			
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130			
Bromoform	8.63	1.0	µg/L	10.0		86.3	70-130			
Bromomethane	12.0	2.0	µg/L	10.0		120	40-160			†
2-Butanone (MEK)	120	20	µg/L	100		120	40-160			†
tert-Butyl Alcohol (TBA)	98.3	20	µg/L	100		98.3	40-160			†
n-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
sec-Butylbenzene	9.90	1.0	µg/L	10.0		99.0	70-130			
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.6	0.50	µg/L	10.0		106	70-130			
Carbon Disulfide	103	5.0	µg/L	100		103	70-130			
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103	70-130			
Chlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
Chlorodibromomethane	9.29	0.50	µg/L	10.0		92.9	70-130			
Chloroethane	11.1	2.0	µg/L	10.0		111	70-130			
Chloroform	10.4	2.0	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 B324990 - SW-846 5030B											
LCS (B324990-BS1)				Prepared & Analyzed: 12/07/22							
Chloromethane	11.6	2.0	µg/L	10.0		116	40-160				†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130				
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	7.96	5.0	µg/L	10.0		79.6	70-130				
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130				
Dibromomethane	11.3	1.0	µg/L	10.0		113	70-130				
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130				
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130				
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130				
trans-1,4-Dichloro-2-butene	8.32	2.0	µg/L	10.0		83.2	70-130				
Dichlorodifluoromethane (Freon 12)	12.3	2.0	µg/L	10.0		123	40-160			V-20	†
1,1-Dichloroethane	11.6	1.0	µg/L	10.0		116	70-130				
1,2-Dichloroethane	11.6	1.0	µg/L	10.0		116	70-130			V-20	
1,1-Dichloroethylene	11.0	1.0	µg/L	10.0		110	70-130				
cis-1,2-Dichloroethylene	11.9	1.0	µg/L	10.0		119	70-130				
trans-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130			V-06	
1,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	70-130				
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130				
2,2-Dichloropropane	9.96	1.0	µg/L	10.0		99.6	40-130				†
1,1-Dichloropropene	10.8	2.0	µg/L	10.0		108	70-130				
cis-1,3-Dichloropropene	9.60	0.50	µg/L	10.0		96.0	70-130				
trans-1,3-Dichloropropene	9.20	0.50	µg/L	10.0		92.0	70-130				
Diethyl Ether	10.8	2.0	µg/L	10.0		108	70-130				
Diisopropyl Ether (DIPE)	11.8	0.50	µg/L	10.0		118	70-130				
1,4-Dioxane	84.1	50	µg/L	100		84.1	40-130				†
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130				
Hexachlorobutadiene	10.2	0.60	µg/L	10.0		102	70-130				
2-Hexanone (MBK)	113	10	µg/L	100		113	70-160				†
Isopropylbenzene (Cumene)	9.75	1.0	µg/L	10.0		97.5	70-130				
p-Isopropyltoluene (p-Cymene)	10.3	1.0	µg/L	10.0		103	70-130				
Methyl Acetate	11.8	1.0	µg/L	10.0		118	70-130			V-06	
Methyl tert-Butyl Ether (MTBE)	9.92	1.0	µg/L	10.0		99.2	70-130				
Methyl Cyclohexane	10.4	1.0	µg/L	10.0		104	70-130				
Methylene Chloride	12.3	5.0	µg/L	10.0		123	70-130			V-20	
4-Methyl-2-pentanone (MIBK)	115	10	µg/L	100		115	70-160				†
Naphthalene	7.35	2.0	µg/L	10.0		73.5	40-130			V-05	†
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
Styrene	9.95	1.0	µg/L	10.0		99.5	70-130				
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101	70-130				
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106	70-130				
Tetrachloroethylene	11.1	1.0	µg/L	10.0		111	70-130				
Tetrahydrofuran	10.5	10	µg/L	10.0		105	70-130				
Toluene	10.7	1.0	µg/L	10.0		107	70-130				
1,2,3-Trichlorobenzene	8.54	5.0	µg/L	10.0		85.4	70-130				
1,2,4-Trichlorobenzene	9.20	1.0	µg/L	10.0		92.0	70-130				
1,3,5-Trichlorobenzene	9.79	1.0	µg/L	10.0		97.9	70-130				
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130				
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130				
Trichloroethylene	11.1	1.0	µg/L	10.0		111	70-130				
Trichlorofluoromethane (Freon 11)	11.4	2.0	µg/L	10.0		114	70-130				
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0		103	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 B324990 - SW-846 5030B											
LCS (B324990-BS1)				Prepared & Analyzed: 12/07/22							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6	1.0	µg/L	10.0		116	70-130				
1,2,4-Trimethylbenzene	10.0	1.0	µg/L	10.0		100	70-130				
1,3,5-Trimethylbenzene	9.81	1.0	µg/L	10.0		98.1	70-130				
Vinyl Chloride	11.6	2.0	µg/L	10.0		116	40-160				†
m+p Xylene	21.3	2.0	µg/L	20.0		107	70-130				
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	*28.3*		µg/L	25.0		113	70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*24.3*		µg/L	25.0		97.3	70-130				
LCS Dup (B324990-BSD1)				Prepared & Analyzed: 12/07/22							
Acetone	121	50	µg/L	100		121	70-160	1.04	25		†
Acrylonitrile	10.9	5.0	µg/L	10.0		109	70-130	1.10	25		
tert-Amyl Methyl Ether (TAME)	9.56	0.50	µg/L	10.0		95.6	70-130	1.26	25		
Benzene	10.8	1.0	µg/L	10.0		108	70-130	1.30	25		
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130	3.64	25		
Bromochloromethane	11.3	1.0	µg/L	10.0		113	70-130	0.798	25		
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130	4.94	25		
Bromoform	8.85	1.0	µg/L	10.0		88.5	70-130	2.52	25		
Bromomethane	11.8	2.0	µg/L	10.0		118	40-160	1.09	25		†
2-Butanone (MEK)	121	20	µg/L	100		121	40-160	1.05	25		†
tert-Butyl Alcohol (TBA)	100	20	µg/L	100		100	40-160	2.17	25		†
n-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	4.58	25		
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	5.98	25		
tert-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	3.30	25		
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.0		107	70-130	1.04	25		
Carbon Disulfide	108	5.0	µg/L	100		108	70-130	4.22	25		
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130	2.45	25		
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	2.91	25		
Chlorodibromomethane	9.70	0.50	µg/L	10.0		97.0	70-130	4.32	25		
Chloroethane	12.0	2.0	µg/L	10.0		120	70-130	7.70	25		
Chloroform	11.0	2.0	µg/L	10.0		110	70-130	5.60	25		
Chloromethane	11.9	2.0	µg/L	10.0		119	40-160	2.04	25		†
2-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130	3.66	25		
4-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130	4.60	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.06	5.0	µg/L	10.0		80.6	70-130	1.25	25		
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130	0.829	25		
Dibromomethane	11.2	1.0	µg/L	10.0		112	70-130	0.798	25		
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	3.41	25		
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	4.64	25		
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	4.54	25		
trans-1,4-Dichloro-2-butene	8.44	2.0	µg/L	10.0		84.4	70-130	1.43	25		
Dichlorodifluoromethane (Freon 12)	12.8	2.0	µg/L	10.0		128	40-160	4.38	25	V-20	†
1,1-Dichloroethane	12.0	1.0	µg/L	10.0		120	70-130	3.64	25		
1,2-Dichloroethane	12.1	1.0	µg/L	10.0		121	70-130	4.48	25	V-20	
1,1-Dichloroethylene	11.7	1.0	µg/L	10.0		117	70-130	6.07	25		
cis-1,2-Dichloroethylene	11.9	1.0	µg/L	10.0		119	70-130	0.252	25		
trans-1,2-Dichloroethylene	12.1	1.0	µg/L	10.0		121	70-130	4.38	25	V-06	
1,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	70-130	1.30	25		
1,3-Dichloropropane	11.2	0.50	µg/L	10.0		112	70-130	1.99	25		
2,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	40-130	4.03	25		†
1,1-Dichloropropene	11.0	2.0	µg/L	10.0		110	70-130	2.57	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 B324990 - SW-846 5030B											
LCS Dup (B324990-BSD1)				Prepared & Analyzed: 12/07/22							
cis-1,3-Dichloropropene	9.88	0.50	µg/L	10.0		98.8	70-130	2.87	25		
trans-1,3-Dichloropropene	9.57	0.50	µg/L	10.0		95.7	70-130	3.94	25		
Diethyl Ether	10.8	2.0	µg/L	10.0		108	70-130	0.186	25		
Diisopropyl Ether (DIPE)	11.6	0.50	µg/L	10.0		116	70-130	1.54	25		
1,4-Dioxane	89.3	50	µg/L	100		89.3	40-130	6.04	50		† ‡
Ethylbenzene	11.1	1.0	µg/L	10.0		111	70-130	4.60	25		
Hexachlorobutadiene	10.8	0.60	µg/L	10.0		108	70-130	5.34	25		
2-Hexanone (MBK)	116	10	µg/L	100		116	70-160	2.75	25		†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130	4.71	25		
p-Isopropyltoluene (p-Cymene)	10.9	1.0	µg/L	10.0		109	70-130	5.68	25		
Methyl Acetate	12.2	1.0	µg/L	10.0		122	70-130	3.92	25	V-06	
Methyl tert-Butyl Ether (MTBE)	9.95	1.0	µg/L	10.0		99.5	70-130	0.302	25		
Methyl Cyclohexane	11.1	1.0	µg/L	10.0		111	70-130	6.22	25		
Methylene Chloride	12.4	5.0	µg/L	10.0		124	70-130	0.972	25	V-20	
4-Methyl-2-pentanone (MIBK)	119	10	µg/L	100		119	70-160	2.60	25		†
Naphthalene	7.97	2.0	µg/L	10.0		79.7	40-130	8.09	25	V-05	†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130	3.94	25		
Styrene	10.2	1.0	µg/L	10.0		102	70-130	2.48	25		
1,1,1,2-Tetrachloroethane	10.0	1.0	µg/L	10.0		100	70-130	0.696	25		
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106	70-130	0.472	25		
Tetrachloroethylene	11.8	1.0	µg/L	10.0		118	70-130	6.47	25		
Tetrahydrofuran	10.5	10	µg/L	10.0		105	70-130	0.571	25		
Toluene	11.1	1.0	µg/L	10.0		111	70-130	3.86	25		
1,2,3-Trichlorobenzene	9.28	5.0	µg/L	10.0		92.8	70-130	8.31	25		
1,2,4-Trichlorobenzene	9.79	1.0	µg/L	10.0		97.9	70-130	6.21	25		
1,3,5-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	5.75	25		
1,1,1-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130	4.73	25		
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130	4.68	25		
Trichloroethylene	11.7	1.0	µg/L	10.0		117	70-130	5.61	25		
Trichlorofluoromethane (Freon 11)	11.6	2.0	µg/L	10.0		116	70-130	2.26	25		
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106	70-130	3.44	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.0	1.0	µg/L	10.0		120	70-130	3.90	25		
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	3.82	25		
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	4.68	25		
Vinyl Chloride	12.2	2.0	µg/L	10.0		122	40-160	4.78	25		†
m+p Xylene	22.3	2.0	µg/L	20.0		111	70-130	4.41	25		
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130	2.49	25		
Surrogate: 1,2-Dichloroethane-d4	*28.3*		µg/L	25.0		113	70-130				
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102	70-130				
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.8	70-130				
Matrix Spike (B324990-MS1)	**Source: 22L0331-01**			Prepared & Analyzed: 12/07/22							
Acetone	105	50	µg/L	100	2.29	102	70-130				
Acrylonitrile	9.95	5.0	µg/L	10.0	ND	99.5	70-130				
tert-Amyl Methyl Ether (TAME)	9.20	0.50	µg/L	10.0	ND	92.0	70-130				
Benzene	10.7	1.0	µg/L	10.0	ND	107	70-130				
Bromobenzene	10.0	1.0	µg/L	10.0	ND	100	70-130				
Bromochloromethane	10.8	1.0	µg/L	10.0	ND	108	70-130				
Bromodichloromethane	9.71	0.50	µg/L	10.0	ND	97.1	70-130				
Bromoform	7.73	1.0	µg/L	10.0	ND	77.3	70-130				
Bromomethane	7.54	2.0	µg/L	10.0	ND	75.4	70-130				
2-Butanone (MEK)	106	20	µg/L	100	ND	106	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 B324990 - SW-846 5030B											
Matrix Spike (B324990-MS1)		**Source: 22L0331-01**		Prepared & Analyzed: 12/07/22							
tert-Butyl Alcohol (TBA)	95.1	20	µg/L	100	ND	95.1		70-130			
n-Butylbenzene	10.7	1.0	µg/L	10.0	ND	107		70-130			
sec-Butylbenzene	10.4	1.0	µg/L	10.0	ND	104		70-130			
tert-Butylbenzene	10.8	1.0	µg/L	10.0	ND	108		70-130			
tert-Butyl Ethyl Ether (TBEE)	10.4	0.50	µg/L	10.0	ND	104		70-130			
Carbon Disulfide	104	5.0	µg/L	100	ND	104		70-130			
Carbon Tetrachloride	10.2	5.0	µg/L	10.0	ND	102		70-130			
Chlorobenzene	10.5	1.0	µg/L	10.0	ND	105		70-130			
Chlorodibromomethane	8.45	0.50	µg/L	10.0	ND	84.5		70-130			
Chloroethane	13.2	2.0	µg/L	10.0	ND	**132**	*	70-130			MS-24
Chloroform	10.6	2.0	µg/L	10.0	ND	106		70-130			
Chloromethane	11.0	2.0	µg/L	10.0	ND	110		70-130			
2-Chlorotoluene	10.0	1.0	µg/L	10.0	ND	100		70-130			
4-Chlorotoluene	10.5	1.0	µg/L	10.0	ND	105		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.66	5.0	µg/L	10.0	ND	76.6		70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0	ND	104		70-130			
Dibromomethane	10.8	1.0	µg/L	10.0	ND	108		70-130			
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0	ND	103		70-130			
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.0	ND	102		70-130			
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0	ND	104		70-130			
trans-1,4-Dichloro-2-butene	6.60	2.0	µg/L	10.0	ND	**66.0**	*	70-130			MS-07A
Dichlorodifluoromethane (Freon 12)	13.2	2.0	µg/L	10.0	ND	**132**	*	70-130			MS-24, V-20
1,1-Dichloroethane	11.8	1.0	µg/L	10.0	ND	118		70-130			
1,2-Dichloroethane	11.3	1.0	µg/L	10.0	ND	113		70-130			V-20
1,1-Dichloroethylene	11.8	1.0	µg/L	10.0	ND	118		70-130			
cis-1,2-Dichloroethylene	12.6	1.0	µg/L	10.0	1.09	115		70-130			
trans-1,2-Dichloroethylene	11.9	1.0	µg/L	10.0	ND	119		70-130			V-06
1,2-Dichloropropane	11.3	1.0	µg/L	10.0	ND	113		70-130			
1,3-Dichloropropane	10.6	0.50	µg/L	10.0	ND	106		70-130			
2,2-Dichloropropane	8.72	1.0	µg/L	10.0	ND	87.2		70-130			
1,1-Dichloropropene	10.8	2.0	µg/L	10.0	ND	108		70-130			
cis-1,3-Dichloropropene	8.74	0.50	µg/L	10.0	ND	87.4		70-130			
trans-1,3-Dichloropropene	8.50	0.50	µg/L	10.0	ND	85.0		70-130			
Diethyl Ether	10.6	2.0	µg/L	10.0	ND	106		70-130			
Diisopropyl Ether (DIPE)	11.2	0.50	µg/L	10.0	ND	112		70-130			
1,4-Dioxane	83.3	50	µg/L	100	ND	83.3		70-130			
Ethylbenzene	10.8	1.0	µg/L	10.0	ND	108		70-130			
Hexachlorobutadiene	9.39	0.60	µg/L	10.0	ND	93.9		70-130			
2-Hexanone (MBK)	104	10	µg/L	100	ND	104		70-130			
Isopropylbenzene (Cumene)	10.0	1.0	µg/L	10.0	ND	100		70-130			
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.0	ND	106		70-130			
Methyl Acetate	12.4	1.0	µg/L	10.0	ND	124		70-130			V-06
Methyl tert-Butyl Ether (MTBE)	9.53	1.0	µg/L	10.0	ND	95.3		70-130			
Methyl Cyclohexane	11.2	1.0	µg/L	10.0	ND	112		70-130			
Methylene Chloride	12.1	5.0	µg/L	10.0	ND	121		70-130			V-20
4-Methyl-2-pentanone (MIBK)	106	10	µg/L	100	ND	106		70-130			
Naphthalene	26.2	2.0	µg/L	10.0	ND	**262**	*	70-130			MS-23, R-06, V-05
n-Propylbenzene	10.3	1.0	µg/L	10.0	ND	103		70-130			
Styrene	9.69	1.0	µg/L	10.0	ND	96.9		70-130			
1,1,1,2-Tetrachloroethane	9.69	1.0	µg/L	10.0	ND	96.9		70-130			
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0	ND	100		70-130			
Tetrachloroethylene	11.5	1.0	µg/L	10.0	ND	115		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 B324990 - SW-846 5030B											
Matrix Spike (B324990-MS1)		**Source: 22L0331-01**		Prepared & Analyzed: 12/07/22							
Tetrahydrofuran	10.5	10	µg/L	10.0	ND	105		70-130			
Toluene	11.0	1.0	µg/L	10.0	0.270	107		70-130			
1,2,3-Trichlorobenzene	9.35	5.0	µg/L	10.0	ND	93.5		70-130			
1,2,4-Trichlorobenzene	9.73	1.0	µg/L	10.0	ND	97.3		70-130			
1,3,5-Trichlorobenzene	9.92	1.0	µg/L	10.0	ND	99.2		70-130			
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0	ND	108		70-130			
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0	ND	103		70-130			
Trichloroethylene	11.9	1.0	µg/L	10.0	ND	119		70-130			
Trichlorofluoromethane (Freon 11)	11.9	2.0	µg/L	10.0	ND	119		70-130			
1,2,3-Trichloropropane	9.75	2.0	µg/L	10.0	ND	97.5		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.3	1.0	µg/L	10.0	ND	123		70-130			
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0	ND	103		70-130			
1,3,5-Trimethylbenzene	10.0	1.0	µg/L	10.0	ND	100		70-130			
Vinyl Chloride	13.4	2.0	µg/L	10.0	0.360	130		70-130			
m+p Xylene	21.5	2.0	µg/L	20.0	ND	108		70-130			
o-Xylene	10.4	1.0	µg/L	10.0	ND	104		70-130			
Surrogate: 1,2-Dichloroethane-d4	*26.6*		µg/L	25.0		106		70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		99.9		70-130			
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.5		70-130			
Matrix Spike Dup (B324990-MSD1)		**Source: 22L0331-01**		Prepared & Analyzed: 12/07/22							
Acetone	102	50	µg/L	100	2.29	99.7		70-130	2.59	30	
Acrylonitrile	9.44	5.0	µg/L	10.0	ND	94.4		70-130	5.26	30	
tert-Amyl Methyl Ether (TAME)	8.77	0.50	µg/L	10.0	ND	87.7		70-130	4.79	30	
Benzene	10.0	1.0	µg/L	10.0	ND	100		70-130	6.08	30	
Bromobenzene	9.43	1.0	µg/L	10.0	ND	94.3		70-130	6.27	30	
Bromochloromethane	10.6	1.0	µg/L	10.0	ND	106		70-130	1.77	30	
Bromodichloromethane	9.12	0.50	µg/L	10.0	ND	91.2		70-130	6.27	30	
Bromoform	7.59	1.0	µg/L	10.0	ND	75.9		70-130	1.83	30	
Bromomethane	7.11	2.0	µg/L	10.0	ND	71.1		70-130	5.87	30	
2-Butanone (MEK)	102	20	µg/L	100	ND	102		70-130	3.87	30	
tert-Butyl Alcohol (TBA)	89.8	20	µg/L	100	ND	89.8		70-130	5.71	30	
n-Butylbenzene	9.37	1.0	µg/L	10.0	ND	93.7		70-130	13.3	30	
sec-Butylbenzene	9.49	1.0	µg/L	10.0	ND	94.9		70-130	8.77	30	
tert-Butylbenzene	9.96	1.0	µg/L	10.0	ND	99.6		70-130	7.63	30	
tert-Butyl Ethyl Ether (TBEE)	9.95	0.50	µg/L	10.0	ND	99.5		70-130	4.90	30	
Carbon Disulfide	99.0	5.0	µg/L	100	ND	99.0		70-130	5.24	30	
Carbon Tetrachloride	9.58	5.0	µg/L	10.0	ND	95.8		70-130	6.27	30	
Chlorobenzene	9.88	1.0	µg/L	10.0	ND	98.8		70-130	6.46	30	
Chlorodibromomethane	8.47	0.50	µg/L	10.0	ND	84.7		70-130	0.236	30	
Chloroethane	12.2	2.0	µg/L	10.0	ND	122		70-130	7.50	30	
Chloroform	10.1	2.0	µg/L	10.0	ND	101		70-130	4.83	30	
Chloromethane	10.1	2.0	µg/L	10.0	ND	101		70-130	8.53	30	
2-Chlorotoluene	9.61	1.0	µg/L	10.0	ND	96.1		70-130	4.48	30	
4-Chlorotoluene	9.67	1.0	µg/L	10.0	ND	96.7		70-130	8.23	30	
1,2-Dibromo-3-chloropropane (DBCP)	7.52	5.0	µg/L	10.0	ND	75.2		70-130	1.84	30	
1,2-Dibromoethane (EDB)	9.86	0.50	µg/L	10.0	ND	98.6		70-130	5.81	30	
Dibromomethane	10.1	1.0	µg/L	10.0	ND	101		70-130	6.32	30	
1,2-Dichlorobenzene	9.71	1.0	µg/L	10.0	ND	97.1		70-130	6.28	30	
1,3-Dichlorobenzene	9.58	1.0	µg/L	10.0	ND	95.8		70-130	6.76	30	
1,4-Dichlorobenzene	9.87	1.0	µg/L	10.0	ND	98.7		70-130	4.84	30	
trans-1,4-Dichloro-2-butene	6.01	2.0	µg/L	10.0	ND	**60.1**	*	70-130	9.36	30	MS-07A

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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 B324990 - SW-846 5030B											
Matrix Spike Dup (B324990-MSD1)	**Source: 22L0331-01**			Prepared & Analyzed: 12/07/22							
Dichlorodifluoromethane (Freon 12)	12.1	2.0	µg/L	10.0	ND	121	70-130	8.56		30	V-20
1,1-Dichloroethane	11.1	1.0	µg/L	10.0	ND	111	70-130	6.39		30	
1,2-Dichloroethane	10.3	1.0	µg/L	10.0	ND	103	70-130	9.32		30	V-20
1,1-Dichloroethylene	11.3	1.0	µg/L	10.0	ND	113	70-130	4.60		30	
cis-1,2-Dichloroethylene	12.0	1.0	µg/L	10.0	1.09	109	70-130	4.95		30	
trans-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0	ND	114	70-130	4.29		30	V-06
1,2-Dichloropropane	10.6	1.0	µg/L	10.0	ND	106	70-130	6.29		30	
1,3-Dichloropropane	9.87	0.50	µg/L	10.0	ND	98.7	70-130	7.13		30	
2,2-Dichloropropane	7.86	1.0	µg/L	10.0	ND	78.6	70-130	10.4		30	
1,1-Dichloropropene	10.2	2.0	µg/L	10.0	ND	102	70-130	6.37		30	
cis-1,3-Dichloropropene	8.17	0.50	µg/L	10.0	ND	81.7	70-130	6.74		30	
trans-1,3-Dichloropropene	8.11	0.50	µg/L	10.0	ND	81.1	70-130	4.70		30	
Diethyl Ether	9.71	2.0	µg/L	10.0	ND	97.1	70-130	8.58		30	
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.0	ND	106	70-130	6.15		30	
1,4-Dioxane	85.5	50	µg/L	100	ND	85.5	70-130	2.64		30	
Ethylbenzene	10.1	1.0	µg/L	10.0	ND	101	70-130	7.27		30	
Hexachlorobutadiene	8.36	0.60	µg/L	10.0	ND	83.6	70-130	11.6		30	
2-Hexanone (MBK)	100	10	µg/L	100	ND	100	70-130	3.54		30	
Isopropylbenzene (Cumene)	9.19	1.0	µg/L	10.0	ND	91.9	70-130	8.84		30	
p-Isopropyltoluene (p-Cymene)	9.42	1.0	µg/L	10.0	ND	94.2	70-130	11.4		30	
Methyl Acetate	11.4	1.0	µg/L	10.0	ND	114	70-130	7.56		30	V-06
Methyl tert-Butyl Ether (MTBE)	9.29	1.0	µg/L	10.0	ND	92.9	70-130	2.55		30	
Methyl Cyclohexane	10.2	1.0	µg/L	10.0	ND	102	70-130	9.53		30	
Methylene Chloride	11.3	5.0	µg/L	10.0	ND	113	70-130	6.77		30	V-20
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100	ND	101	70-130	4.47		30	
Naphthalene	9.32	2.0	µg/L	10.0	ND	93.2	70-130	**94.9**	*	30	R-06, V-05
n-Propylbenzene	9.39	1.0	µg/L	10.0	ND	93.9	70-130	9.63		30	
Styrene	9.20	1.0	µg/L	10.0	ND	92.0	70-130	5.19		30	
1,1,1,2-Tetrachloroethane	9.09	1.0	µg/L	10.0	ND	90.9	70-130	6.39		30	
1,1,2,2-Tetrachloroethane	9.48	0.50	µg/L	10.0	ND	94.8	70-130	5.54		30	
Tetrachloroethylene	10.6	1.0	µg/L	10.0	ND	106	70-130	8.22		30	
Tetrahydrofuran	9.51	10	µg/L	10.0	ND	95.1	70-130	10.1		30	J
Toluene	10.4	1.0	µg/L	10.0	0.270	101	70-130	5.61		30	
1,2,3-Trichlorobenzene	8.67	5.0	µg/L	10.0	ND	86.7	70-130	7.55		30	
1,2,4-Trichlorobenzene	8.68	1.0	µg/L	10.0	ND	86.8	70-130	11.4		30	
1,3,5-Trichlorobenzene	8.80	1.0	µg/L	10.0	ND	88.0	70-130	12.0		30	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0	ND	104	70-130	3.58		30	
1,1,2-Trichloroethane	9.65	1.0	µg/L	10.0	ND	96.5	70-130	6.22		30	
Trichloroethylene	11.0	1.0	µg/L	10.0	ND	110	70-130	7.77		30	
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.0	ND	106	70-130	11.5		30	
1,2,3-Trichloropropane	9.21	2.0	µg/L	10.0	ND	92.1	70-130	5.70		30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0	1.0	µg/L	10.0	ND	110	70-130	11.4		30	
1,2,4-Trimethylbenzene	9.62	1.0	µg/L	10.0	ND	96.2	70-130	6.92		30	
1,3,5-Trimethylbenzene	9.23	1.0	µg/L	10.0	ND	92.3	70-130	8.11		30	
Vinyl Chloride	12.2	2.0	µg/L	10.0	0.360	118	70-130	9.78		30	
m+p Xylene	20.2	2.0	µg/L	20.0	ND	101	70-130	6.18		20	
o-Xylene	9.68	1.0	µg/L	10.0	ND	96.8	70-130	6.69		30	
Surrogate: 1,2-Dichloroethane-d4	*27.3*		µg/L	25.0		109	70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130				
Surrogate: 4-Bromofluorobenzene	*24.5*		µg/L	25.0		98.1	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 B324991 - SW-846 5030B										
Blank (B324991-BLK1)				Prepared & Analyzed: 12/07/22						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	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							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	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							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	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							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							V-05
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							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	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 B324991 - SW-846 5030B										
Blank (B324991-BLK1)				Prepared & Analyzed: 12/07/22						
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							
Naphthalene	ND	2.0	µg/L							V-05
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	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							
1,3,5-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							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	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							
Surrogate: 1,2-Dichloroethane-d4	*27.7*		µg/L	25.0		111	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	*23.9*		µg/L	25.0		95.8	70-130			
LCS (B324991-BS1)				Prepared & Analyzed: 12/07/22						
Acetone	117	50	µg/L	100		117	70-160			†
Acrylonitrile	10.4	5.0	µg/L	10.0		104	70-130			
tert-Amyl Methyl Ether (TAME)	9.78	0.50	µg/L	10.0		97.8	70-130			
Benzene	10.7	1.0	µg/L	10.0		107	70-130			
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130			
Bromochloromethane	11.6	1.0	µg/L	10.0		116	70-130			
Bromodichloromethane	10.3	0.50	µg/L	10.0		103	70-130			
Bromoform	8.60	1.0	µg/L	10.0		86.0	70-130			
Bromomethane	11.1	2.0	µg/L	10.0		111	40-160			†
2-Butanone (MEK)	114	20	µg/L	100		114	40-160			†
tert-Butyl Alcohol (TBA)	94.2	20	µg/L	100		94.2	40-160			†
n-Butylbenzene	9.44	1.0	µg/L	10.0		94.4	70-130			
sec-Butylbenzene	9.37	1.0	µg/L	10.0		93.7	70-130			
tert-Butylbenzene	9.94	1.0	µg/L	10.0		99.4	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	µg/L	10.0		109	70-130			
Carbon Disulfide	99.4	5.0	µg/L	100		99.4	70-130			
Carbon Tetrachloride	9.54	5.0	µg/L	10.0		95.4	70-130			
Chlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
Chlorodibromomethane	9.70	0.50	µg/L	10.0		97.0	70-130			
Chloroethane	11.2	2.0	µg/L	10.0		112	70-130			
Chloroform	10.8	2.0	µg/L	10.0		108	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 B324991 - SW-846 5030B											
LCS (B324991-BS1)				Prepared & Analyzed: 12/07/22							
Chloromethane	10.4	2.0	µg/L	10.0		104	40-160				†
2-Chlorotoluene	10.0	1.0	µg/L	10.0		100	70-130				
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	7.80	5.0	µg/L	10.0		78.0	70-130			V-05	
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.0		110	70-130				
Dibromomethane	11.6	1.0	µg/L	10.0		116	70-130				
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130				
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130				
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130				
trans-1,4-Dichloro-2-butene	7.22	2.0	µg/L	10.0		72.2	70-130			V-05	
Dichlorodifluoromethane (Freon 12)	10.6	2.0	µg/L	10.0		106	40-160				†
1,1-Dichloroethane	11.6	1.0	µg/L	10.0		116	70-130				
1,2-Dichloroethane	11.4	1.0	µg/L	10.0		114	70-130				
1,1-Dichloroethylene	11.0	1.0	µg/L	10.0		110	70-130				
cis-1,2-Dichloroethylene	11.5	1.0	µg/L	10.0		115	70-130				
trans-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130				
1,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	70-130				
1,3-Dichloropropane	11.2	0.50	µg/L	10.0		112	70-130				
2,2-Dichloropropane	8.59	1.0	µg/L	10.0		85.9	40-130				†
1,1-Dichloropropene	10.4	2.0	µg/L	10.0		104	70-130				
cis-1,3-Dichloropropene	9.76	0.50	µg/L	10.0		97.6	70-130				
trans-1,3-Dichloropropene	9.43	0.50	µg/L	10.0		94.3	70-130				
Diethyl Ether	10.9	2.0	µg/L	10.0		109	70-130				
Diisopropyl Ether (DIPE)	11.3	0.50	µg/L	10.0		113	70-130				
1,4-Dioxane	86.6	50	µg/L	100		86.6	40-130				†
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130				
Hexachlorobutadiene	9.25	0.60	µg/L	10.0		92.5	70-130				
2-Hexanone (MBK)	111	10	µg/L	100		111	70-160				†
Isopropylbenzene (Cumene)	9.53	1.0	µg/L	10.0		95.3	70-130				
p-Isopropyltoluene (p-Cymene)	9.67	1.0	µg/L	10.0		96.7	70-130				
Methyl Acetate	12.2	1.0	µg/L	10.0		122	70-130			V-06	
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101	70-130				
Methyl Cyclohexane	9.15	1.0	µg/L	10.0		91.5	70-130				
Methylene Chloride	12.0	5.0	µg/L	10.0		120	70-130				
4-Methyl-2-pentanone (MIBK)	112	10	µg/L	100		112	70-160				†
Naphthalene	7.48	2.0	µg/L	10.0		74.8	40-130			V-05	†
n-Propylbenzene	9.77	1.0	µg/L	10.0		97.7	70-130				
Styrene	10.2	1.0	µg/L	10.0		102	70-130				
1,1,1,2-Tetrachloroethane	9.79	1.0	µg/L	10.0		97.9	70-130				
1,1,2,2-Tetrachloroethane	9.41	0.50	µg/L	10.0		94.1	70-130				
Tetrachloroethylene	11.3	1.0	µg/L	10.0		113	70-130				
Tetrahydrofuran	10.0	10	µg/L	10.0		100	70-130				
Toluene	10.8	1.0	µg/L	10.0		108	70-130				
1,2,3-Trichlorobenzene	8.37	5.0	µg/L	10.0		83.7	70-130				
1,2,4-Trichlorobenzene	9.04	1.0	µg/L	10.0		90.4	70-130				
1,3,5-Trichlorobenzene	9.75	1.0	µg/L	10.0		97.5	70-130				
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130				
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130				
Trichloroethylene	11.6	1.0	µg/L	10.0		116	70-130				
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.0		106	70-130				
1,2,3-Trichloropropane	9.93	2.0	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	
Batch B324991 - SW-846 5030B											
LCS (B324991-BS1)				Prepared & Analyzed: 12/07/22							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	1.0	µg/L	10.0		102	70-130				
1,2,4-Trimethylbenzene	10.0	1.0	µg/L	10.0		100	70-130				
1,3,5-Trimethylbenzene	9.67	1.0	µg/L	10.0		96.7	70-130				
Vinyl Chloride	10.9	2.0	µg/L	10.0		109	40-160				†
m+p Xylene	20.8	2.0	µg/L	20.0		104	70-130				
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	*27.7*		µg/L	25.0		111	70-130				
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*24.1*		µg/L	25.0		96.5	70-130				
LCS Dup (B324991-BSD1)				Prepared & Analyzed: 12/07/22							
Acetone	123	50	µg/L	100		123	70-160	4.74	25		†
Acrylonitrile	10.7	5.0	µg/L	10.0		107	70-130	3.03	25		
tert-Amyl Methyl Ether (TAME)	9.88	0.50	µg/L	10.0		98.8	70-130	1.02	25		
Benzene	10.8	1.0	µg/L	10.0		108	70-130	0.746	25		
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130	0.00	25		
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130	2.08	25		
Bromodichloromethane	10.3	0.50	µg/L	10.0		103	70-130	0.0968	25		
Bromoform	8.81	1.0	µg/L	10.0		88.1	70-130	2.41	25		
Bromomethane	10.7	2.0	µg/L	10.0		107	40-160	3.12	25		†
2-Butanone (MEK)	118	20	µg/L	100		118	40-160	3.73	25		†
tert-Butyl Alcohol (TBA)	97.3	20	µg/L	100		97.3	40-160	3.28	25		†
n-Butylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130	4.96	25		
sec-Butylbenzene	9.86	1.0	µg/L	10.0		98.6	70-130	5.10	25		
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	5.38	25		
tert-Butyl Ethyl Ether (TBEE)	11.0	0.50	µg/L	10.0		110	70-130	0.547	25		
Carbon Disulfide	102	5.0	µg/L	100		102	70-130	2.72	25		
Carbon Tetrachloride	10.0	5.0	µg/L	10.0		100	70-130	5.11	25		
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	2.73	25		
Chlorodibromomethane	9.70	0.50	µg/L	10.0		97.0	70-130	0.00	25		
Chloroethane	11.3	2.0	µg/L	10.0		113	70-130	0.712	25		
Chloroform	10.9	2.0	µg/L	10.0		109	70-130	1.11	25		
Chloromethane	10.9	2.0	µg/L	10.0		109	40-160	5.25	25		†
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130	4.38	25		
4-Chlorotoluene	10.7	1.0	µg/L	10.0		107	70-130	3.61	25		
1,2-Dibromo-3-chloropropane (DBCP)	7.92	5.0	µg/L	10.0		79.2	70-130	1.53	25	V-05	
1,2-Dibromoethane (EDB)	11.3	0.50	µg/L	10.0		113	70-130	2.69	25		
Dibromomethane	11.7	1.0	µg/L	10.0		117	70-130	0.772	25		
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	0.656	25		
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	0.0955	25		
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	0.753	25		
trans-1,4-Dichloro-2-butene	7.67	2.0	µg/L	10.0		76.7	70-130	6.04	25	V-05	
Dichlorodifluoromethane (Freon 12)	11.4	2.0	µg/L	10.0		114	40-160	7.65	25		†
1,1-Dichloroethane	11.7	1.0	µg/L	10.0		117	70-130	0.429	25		
1,2-Dichloroethane	12.0	1.0	µg/L	10.0		120	70-130	5.19	25		
1,1-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	1.35	25		
cis-1,2-Dichloroethylene	11.7	1.0	µg/L	10.0		117	70-130	1.63	25		
trans-1,2-Dichloroethylene	11.8	1.0	µg/L	10.0		118	70-130	1.70	25		
1,2-Dichloropropane	11.8	1.0	µg/L	10.0		118	70-130	1.72	25		
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130	2.26	25		
2,2-Dichloropropane	8.44	1.0	µg/L	10.0		84.4	40-130	1.76	25		†
1,1-Dichloropropene	10.5	2.0	µg/L	10.0		105	70-130	0.191	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 B324991 - SW-846 5030B											
LCS Dup (B324991-BSD1)				Prepared & Analyzed: 12/07/22							
cis-1,3-Dichloropropene	9.59	0.50	µg/L	10.0		95.9	70-130	1.76	25		
trans-1,3-Dichloropropene	9.43	0.50	µg/L	10.0		94.3	70-130	0.00	25		
Diethyl Ether	10.8	2.0	µg/L	10.0		108	70-130	1.02	25		
Diisopropyl Ether (DIPE)	11.3	0.50	µg/L	10.0		113	70-130	0.354	25		
1,4-Dioxane	92.8	50	µg/L	100		92.8	40-130	6.91	50		† ‡
Ethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	3.57	25		
Hexachlorobutadiene	9.89	0.60	µg/L	10.0		98.9	70-130	6.69	25		
2-Hexanone (MBK)	114	10	µg/L	100		114	70-160	2.33	25		†
Isopropylbenzene (Cumene)	9.95	1.0	µg/L	10.0		99.5	70-130	4.31	25		
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130	5.14	25		
Methyl Acetate	12.5	1.0	µg/L	10.0		125	70-130	3.08	25	V-06	
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102	70-130	1.58	25		
Methyl Cyclohexane	10.0	1.0	µg/L	10.0		100	70-130	9.18	25		
Methylene Chloride	11.9	5.0	µg/L	10.0		119	70-130	0.418	25		
4-Methyl-2-pentanone (MIBK)	114	10	µg/L	100		114	70-160	1.83	25		†
Naphthalene	7.81	2.0	µg/L	10.0		78.1	40-130	4.32	25	V-05	†
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130	4.60	25		
Styrene	10.2	1.0	µg/L	10.0		102	70-130	0.197	25		
1,1,1,2-Tetrachloroethane	10.2	1.0	µg/L	10.0		102	70-130	4.20	25		
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100	70-130	6.28	25		
Tetrachloroethylene	11.4	1.0	µg/L	10.0		114	70-130	1.05	25		
Tetrahydrofuran	10.1	10	µg/L	10.0		101	70-130	1.29	25		
Toluene	10.9	1.0	µg/L	10.0		109	70-130	0.643	25		
1,2,3-Trichlorobenzene	8.77	5.0	µg/L	10.0		87.7	70-130	4.67	25		
1,2,4-Trichlorobenzene	9.48	1.0	µg/L	10.0		94.8	70-130	4.75	25		
1,3,5-Trichlorobenzene	9.73	1.0	µg/L	10.0		97.3	70-130	0.205	25		
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130	4.08	25		
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130	2.71	25		
Trichloroethylene	12.1	1.0	µg/L	10.0		121	70-130	4.32	25		
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0		111	70-130	4.72	25		
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.0		102	70-130	2.49	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1	1.0	µg/L	10.0		111	70-130	8.05	25		
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	2.46	25		
1,3,5-Trimethylbenzene	9.99	1.0	µg/L	10.0		99.9	70-130	3.26	25		
Vinyl Chloride	11.3	2.0	µg/L	10.0		113	40-160	4.14	25		†
m+p Xylene	21.6	2.0	µg/L	20.0		108	70-130	3.86	25		
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130	3.15	25		
Surrogate: 1,2-Dichloroethane-d4	*26.5*		µg/L	25.0		106	70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.3	70-130				
Matrix Spike (B324991-MS1)		**Source: 22L0331-10**		Prepared: 12/07/22 Analyzed: 12/08/22							
Acetone	128	50	µg/L	100	9.64	118	70-130				
Acrylonitrile	11.0	5.0	µg/L	10.0	ND	110	70-130				
tert-Amyl Methyl Ether (TAME)	9.18	0.50	µg/L	10.0	ND	91.8	70-130				
Benzene	11.8	1.0	µg/L	10.0	1.67	102	70-130				
Bromobenzene	9.45	1.0	µg/L	10.0	ND	94.5	70-130				
Bromochloromethane	10.7	1.0	µg/L	10.0	ND	107	70-130				
Bromodichloromethane	9.76	0.50	µg/L	10.0	ND	97.6	70-130				
Bromoform	7.86	1.0	µg/L	10.0	ND	78.6	70-130				
Bromomethane	8.25	2.0	µg/L	10.0	ND	82.5	70-130				
2-Butanone (MEK)	135	20	µg/L	100	11.9	123	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 B324991 - SW-846 5030B											
Matrix Spike (B324991-MS1)	**Source: 22L0331-10**			Prepared: 12/07/22 Analyzed: 12/08/22							
tert-Butyl Alcohol (TBA)	114	20	µg/L	100	ND	114		70-130			
n-Butylbenzene	8.38	1.0	µg/L	10.0	ND	83.8		70-130			
sec-Butylbenzene	8.74	1.0	µg/L	10.0	ND	87.4		70-130			
tert-Butylbenzene	9.39	1.0	µg/L	10.0	ND	93.9		70-130			
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0	ND	103		70-130			
Carbon Disulfide	98.4	5.0	µg/L	100	ND	98.4		70-130			
Carbon Tetrachloride	9.76	5.0	µg/L	10.0	ND	97.6		70-130			
Chlorobenzene	9.90	1.0	µg/L	10.0	ND	99.0		70-130			
Chlorodibromomethane	8.83	0.50	µg/L	10.0	ND	88.3		70-130			
Chloroethane	12.6	2.0	µg/L	10.0	ND	126		70-130			
Chloroform	10.3	2.0	µg/L	10.0	ND	103		70-130			
Chloromethane	10.0	2.0	µg/L	10.0	ND	100		70-130			
2-Chlorotoluene	9.44	1.0	µg/L	10.0	ND	94.4		70-130			
4-Chlorotoluene	9.64	1.0	µg/L	10.0	ND	96.4		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.03	5.0	µg/L	10.0	ND	90.3		70-130			V-05
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0	ND	105		70-130			
Dibromomethane	11.1	1.0	µg/L	10.0	ND	111		70-130			
1,2-Dichlorobenzene	9.56	1.0	µg/L	10.0	ND	95.6		70-130			
1,3-Dichlorobenzene	9.22	1.0	µg/L	10.0	ND	92.2		70-130			
1,4-Dichlorobenzene	9.85	1.0	µg/L	10.0	ND	98.5		70-130			
trans-1,4-Dichloro-2-butene	5.65	2.0	µg/L	10.0	ND	**56.5**	*	70-130			MS-07A, V-05
Dichlorodifluoromethane (Freon 12)	11.5	2.0	µg/L	10.0	ND	115		70-130			
1,1-Dichloroethane	12.0	1.0	µg/L	10.0	0.810	112		70-130			
1,2-Dichloroethane	12.2	1.0	µg/L	10.0	0.860	114		70-130			
1,1-Dichloroethylene	11.0	1.0	µg/L	10.0	ND	110		70-130			
cis-1,2-Dichloroethylene	21.7	1.0	µg/L	10.0	10.6	111		70-130			
trans-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0	ND	113		70-130			
1,2-Dichloropropane	10.8	1.0	µg/L	10.0	ND	108		70-130			
1,3-Dichloropropane	10.9	0.50	µg/L	10.0	ND	109		70-130			
2,2-Dichloropropane	5.88	1.0	µg/L	10.0	ND	**58.8**	*	70-130			MS-07A
1,1-Dichloropropene	10.1	2.0	µg/L	10.0	ND	101		70-130			
cis-1,3-Dichloropropene	8.40	0.50	µg/L	10.0	ND	84.0		70-130			
trans-1,3-Dichloropropene	8.09	0.50	µg/L	10.0	ND	80.9		70-130			
Diethyl Ether	11.3	2.0	µg/L	10.0	0.750	105		70-130			
Diisopropyl Ether (DIPE)	11.3	0.50	µg/L	10.0	0.260	111		70-130			
1,4-Dioxane	103	50	µg/L	100	ND	103		70-130			R-06
Ethylbenzene	9.90	1.0	µg/L	10.0	ND	99.0		70-130			
Hexachlorobutadiene	7.14	0.60	µg/L	10.0	ND	71.4		70-130			
2-Hexanone (MBK)	122	10	µg/L	100	ND	122		70-130			
Isopropylbenzene (Cumene)	9.08	1.0	µg/L	10.0	ND	90.8		70-130			
p-Isopropyltoluene (p-Cymene)	8.90	1.0	µg/L	10.0	ND	89.0		70-130			
Methyl Acetate	252	1.0	µg/L	10.0	1.97	**2500**	*	70-130			MS-12, V-06
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	µg/L	10.0	0.560	97.3		70-130			
Methyl Cyclohexane	9.43	1.0	µg/L	10.0	ND	94.3		70-130			
Methylene Chloride	11.9	5.0	µg/L	10.0	ND	119		70-130			
4-Methyl-2-pentanone (MIBK)	122	10	µg/L	100	ND	122		70-130			
Naphthalene	8.49	2.0	µg/L	10.0	ND	84.9		70-130			V-05
n-Propylbenzene	9.18	1.0	µg/L	10.0	ND	91.8		70-130			
Styrene	9.09	1.0	µg/L	10.0	ND	90.9		70-130			
1,1,1,2-Tetrachloroethane	9.16	1.0	µg/L	10.0	ND	91.6		70-130			
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0	ND	106		70-130			
Tetrachloroethylene	10.9	1.0	µg/L	10.0	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 B324991 - SW-846 5030B											
Matrix Spike (B324991-MS1)	**Source: 22L0331-10**			Prepared: 12/07/22 Analyzed: 12/08/22							
Tetrahydrofuran	12.1	10	µg/L	10.0	ND	121		70-130			
Toluene	10.8	1.0	µg/L	10.0	0.330	104		70-130			
1,2,3-Trichlorobenzene	8.30	5.0	µg/L	10.0	ND	83.0		70-130			
1,2,4-Trichlorobenzene	8.24	1.0	µg/L	10.0	ND	82.4		70-130			
1,3,5-Trichlorobenzene	8.19	1.0	µg/L	10.0	ND	81.9		70-130			
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0	ND	102		70-130			
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0	ND	104		70-130			
Trichloroethylene	11.1	1.0	µg/L	10.0	ND	111		70-130			
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.0	ND	106		70-130			
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0	ND	104		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1	1.0	µg/L	10.0	ND	111		70-130			
1,2,4-Trimethylbenzene	9.23	1.0	µg/L	10.0	ND	92.3		70-130			
1,3,5-Trimethylbenzene	8.98	1.0	µg/L	10.0	ND	89.8		70-130			
Vinyl Chloride	22.3	2.0	µg/L	10.0	10.6	116		70-130			
m+p Xylene	19.9	2.0	µg/L	20.0	ND	99.6		70-130			
o-Xylene	9.68	1.0	µg/L	10.0	ND	96.8		70-130			
Surrogate: 1,2-Dichloroethane-d4	*27.7*		µg/L	25.0		111		70-130			
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130			
Surrogate: 4-Bromofluorobenzene	*23.9*		µg/L	25.0		95.7		70-130			
Matrix Spike Dup (B324991-MSD1)	**Source: 22L0331-10**			Prepared: 12/07/22 Analyzed: 12/08/22							
Acetone	112	50	µg/L	100	9.64	102		70-130	13.5	30	
Acrylonitrile	10.1	5.0	µg/L	10.0	ND	101		70-130	8.23	30	
tert-Amyl Methyl Ether (TAME)	9.08	0.50	µg/L	10.0	ND	90.8		70-130	1.10	30	
Benzene	12.0	1.0	µg/L	10.0	1.67	103		70-130	0.840	30	
Bromobenzene	9.35	1.0	µg/L	10.0	ND	93.5		70-130	1.06	30	
Bromochloromethane	11.2	1.0	µg/L	10.0	ND	112		70-130	4.38	30	
Bromodichloromethane	9.82	0.50	µg/L	10.0	ND	98.2		70-130	0.613	30	
Bromoform	7.71	1.0	µg/L	10.0	ND	77.1		70-130	1.93	30	
Bromomethane	8.27	2.0	µg/L	10.0	ND	82.7		70-130	0.242	30	
2-Butanone (MEK)	122	20	µg/L	100	11.9	111		70-130	9.66	30	
tert-Butyl Alcohol (TBA)	90.9	20	µg/L	100	ND	90.9		70-130	22.9	30	
n-Butylbenzene	8.66	1.0	µg/L	10.0	ND	86.6		70-130	3.29	30	
sec-Butylbenzene	9.17	1.0	µg/L	10.0	ND	91.7		70-130	4.80	30	
tert-Butylbenzene	9.66	1.0	µg/L	10.0	ND	96.6		70-130	2.83	30	
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0	ND	101		70-130	1.47	30	
Carbon Disulfide	101	5.0	µg/L	100	ND	101		70-130	2.24	30	
Carbon Tetrachloride	9.80	5.0	µg/L	10.0	ND	98.0		70-130	0.409	30	
Chlorobenzene	10.0	1.0	µg/L	10.0	ND	100		70-130	1.10	30	
Chlorodibromomethane	8.87	0.50	µg/L	10.0	ND	88.7		70-130	0.452	30	
Chloroethane	12.3	2.0	µg/L	10.0	ND	123		70-130	2.49	30	
Chloroform	10.4	2.0	µg/L	10.0	ND	104		70-130	1.06	30	
Chloromethane	10.4	2.0	µg/L	10.0	ND	104		70-130	3.73	30	
2-Chlorotoluene	9.50	1.0	µg/L	10.0	ND	95.0		70-130	0.634	30	
4-Chlorotoluene	9.73	1.0	µg/L	10.0	ND	97.3		70-130	0.929	30	
1,2-Dibromo-3-chloropropane (DBCP)	8.27	5.0	µg/L	10.0	ND	82.7		70-130	8.79	30	V-05
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0	ND	103		70-130	1.83	30	
Dibromomethane	10.8	1.0	µg/L	10.0	ND	108		70-130	2.84	30	
1,2-Dichlorobenzene	9.74	1.0	µg/L	10.0	ND	97.4		70-130	1.87	30	
1,3-Dichlorobenzene	9.46	1.0	µg/L	10.0	ND	94.6		70-130	2.57	30	
1,4-Dichlorobenzene	9.70	1.0	µg/L	10.0	ND	97.0		70-130	1.53	30	
trans-1,4-Dichloro-2-butene	5.02	2.0	µg/L	10.0	ND	**50.2**	*	70-130	11.8	30	MS-07A, V-05

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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 B324991 - SW-846 5030B												
Matrix Spike Dup (B324991-MSD1)	**Source: 22L0331-10**			Prepared: 12/07/22 Analyzed: 12/08/22								
Dichlorodifluoromethane (Freon 12)	12.2	2.0	µg/L	10.0	ND	122		70-130	6.09		30	
1,1-Dichloroethane	12.2	1.0	µg/L	10.0	0.810	114		70-130	1.82		30	
1,2-Dichloroethane	11.9	1.0	µg/L	10.0	0.860	111		70-130	2.48		30	
1,1-Dichloroethylene	11.5	1.0	µg/L	10.0	ND	115		70-130	4.18		30	
cis-1,2-Dichloroethylene	21.8	1.0	µg/L	10.0	10.6	112		70-130	0.506		30	
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0	ND	112		70-130	0.178		30	
1,2-Dichloropropane	10.9	1.0	µg/L	10.0	ND	109		70-130	0.554		30	
1,3-Dichloropropane	10.4	0.50	µg/L	10.0	ND	104		70-130	4.23		30	
2,2-Dichloropropane	5.87	1.0	µg/L	10.0	ND	**58.7**	*	70-130	0.170		30	MS-07A
1,1-Dichloropropene	10.2	2.0	µg/L	10.0	ND	102		70-130	0.981		30	
cis-1,3-Dichloropropene	8.08	0.50	µg/L	10.0	ND	80.8		70-130	3.88		30	
trans-1,3-Dichloropropene	7.85	0.50	µg/L	10.0	ND	78.5		70-130	3.01		30	
Diethyl Ether	11.2	2.0	µg/L	10.0	0.750	104		70-130	0.892		30	
Diisopropyl Ether (DIPE)	11.2	0.50	µg/L	10.0	0.260	109		70-130	1.07		30	
1,4-Dioxane	69.9	50	µg/L	100	ND	**69.9**	*	70-130	**38.3**	*	30	MS-24
Ethylbenzene	10.1	1.0	µg/L	10.0	ND	101		70-130	2.20		30	
Hexachlorobutadiene	7.29	0.60	µg/L	10.0	ND	72.9		70-130	2.08		30	
2-Hexanone (MBK)	111	10	µg/L	100	ND	111		70-130	9.98		30	
Isopropylbenzene (Cumene)	9.31	1.0	µg/L	10.0	ND	93.1		70-130	2.50		30	
p-Isopropyltoluene (p-Cymene)	9.38	1.0	µg/L	10.0	ND	93.8		70-130	5.25		30	
Methyl Acetate	273	1.0	µg/L	10.0	1.97	**2710**	*	70-130	7.99		30	MS-12, V-06
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0	0.560	95.8		70-130	1.47		30	
Methyl Cyclohexane	9.65	1.0	µg/L	10.0	ND	96.5		70-130	2.31		30	
Methylene Chloride	11.8	5.0	µg/L	10.0	ND	118		70-130	0.169		30	
4-Methyl-2-pentanone (MIBK)	112	10	µg/L	100	ND	112		70-130	9.01		30	
Naphthalene	8.34	2.0	µg/L	10.0	ND	83.4		70-130	1.78		30	V-05
n-Propylbenzene	9.37	1.0	µg/L	10.0	ND	93.7		70-130	2.05		30	
Styrene	9.46	1.0	µg/L	10.0	ND	94.6		70-130	3.99		30	
1,1,1,2-Tetrachloroethane	9.43	1.0	µg/L	10.0	ND	94.3		70-130	2.90		30	
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0	ND	101		70-130	4.66		30	
Tetrachloroethylene	10.3	1.0	µg/L	10.0	ND	103		70-130	5.36		30	
Tetrahydrofuran	11.2	10	µg/L	10.0	ND	112		70-130	7.72		30	
Toluene	10.6	1.0	µg/L	10.0	0.330	103		70-130	1.22		30	
1,2,3-Trichlorobenzene	8.72	5.0	µg/L	10.0	ND	87.2		70-130	4.94		30	
1,2,4-Trichlorobenzene	8.25	1.0	µg/L	10.0	ND	82.5		70-130	0.121		30	
1,3,5-Trichlorobenzene	8.37	1.0	µg/L	10.0	ND	83.7		70-130	2.17		30	
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0	ND	106		70-130	4.13		30	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0	ND	103		70-130	1.16		30	
Trichloroethylene	10.9	1.0	µg/L	10.0	ND	109		70-130	1.72		30	
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0	ND	113		70-130	6.30		30	
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.0	ND	101		70-130	3.13		30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9	1.0	µg/L	10.0	ND	109		70-130	1.45		30	
1,2,4-Trimethylbenzene	9.46	1.0	µg/L	10.0	ND	94.6		70-130	2.46		30	
1,3,5-Trimethylbenzene	8.96	1.0	µg/L	10.0	ND	89.6		70-130	0.223		30	
Vinyl Chloride	22.8	2.0	µg/L	10.0	10.6	122		70-130	2.22		30	
m+p Xylene	20.1	2.0	µg/L	20.0	ND	100		70-130	0.751		20	
o-Xylene	9.82	1.0	µg/L	10.0	ND	98.2		70-130	1.44		30	
Surrogate: 1,2-Dichloroethane-d4	*27.4*		µg/L	25.0		109		70-130				
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101		70-130				
Surrogate: 4-Bromofluorobenzene	*24.3*		µg/L	25.0		97.2		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
Batch B325948 - RSK175											
Blank (B325948-BLK1)				Prepared & Analyzed: 12/12/22							
Ethane	ND	0.014	mg/L								
Ethene	ND	0.017	mg/L								
Methane	ND	0.0070	mg/L								
LCS (B325948-BS1)				Prepared & Analyzed: 12/12/22							
Ethane	0.25		mg/L	0.344		72.6		70.1-110			
Ethene	0.23		mg/L	0.322		71.0		67.5-110			
Methane	0.13		mg/L	0.183		71.7		70.9-110			
Duplicate (B325948-DUP1)		**Source: 22L0331-06**		Prepared & Analyzed: 12/12/22							
Ethane	0.0728	0.014	mg/L		0.0717				1.50	20	
Ethene	0.00351	0.017	mg/L		0.00344				2.01	20	J
Methane	4.69	0.0070	mg/L		4.61				1.77	20	
Matrix Spike (B325948-MS1)		**Source: 22L0331-01**		Prepared & Analyzed: 12/12/22							
Ethane	0.168		mg/L	0.341	0.00210	48.6		0-200			
Ethene	0.149		mg/L	0.319	0.00	46.7		0-200			
Matrix Spike (B325948-MS2)		**Source: 22L0331-01RE1**		Prepared & Analyzed: 12/12/22							
Methane	6.62		mg/L	0.181	7.69	**-592**	*	0-200			MS-09
Matrix Spike Dup (B325948-MSD1)		**Source: 22L0331-01**		Prepared & Analyzed: 12/12/22							
Ethane	0.175		mg/L	0.341	0.00210	50.7		0-200	4.06		
Ethene	0.157		mg/L	0.319	0.00	49.2		0-200	5.29		
Matrix Spike Dup (B325948-MSD2)		**Source: 22L0331-01RE1**		Prepared & Analyzed: 12/12/22							
Methane	7.84		mg/L	0.181	7.69	85.0		0-200	16.9		
Batch B325949 - RSK175											
Blank (B325949-BLK1)				Prepared & Analyzed: 12/13/22							
Ethane	ND	0.014	mg/L								
Ethene	ND	0.017	mg/L								
Methane	ND	0.0070	mg/L								
LCS (B325949-BS1)				Prepared & Analyzed: 12/13/22							
Ethane	0.26		mg/L	0.339		77.9		70.1-110			
Ethene	0.24		mg/L	0.317		76.5		67.5-110			
Methane	0.14		mg/L	0.180		79.3		70.9-110			
Duplicate (B325949-DUP1)		**Source: 22L0331-29**		Prepared & Analyzed: 12/13/22							
Ethane	0.0901	0.014	mg/L		0.0898				0.345	20	
Ethene	0.0740	0.017	mg/L		0.0722				2.42	20	
Methane	4.52	0.0070	mg/L		4.44				1.78	20	

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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
Batch B325949 - RSK175											
Duplicate (B325949-DUP2)		**Source: 22L0331-31**		Prepared & Analyzed: 12/13/22							
Ethane	ND	0.014	mg/L		ND				NC	20	
Ethene	ND	0.017	mg/L		ND				NC	20	
Methane	0.0152	0.0070	mg/L		0.0128				17.1	20	
Duplicate (B325949-DUP3)		**Source: 22L0331-12**		Prepared & Analyzed: 12/13/22							
Ethane	ND	0.014	mg/L		ND				NC	20	
Ethene	ND	0.017	mg/L		ND				NC	20	
Methane	0.0304	0.0070	mg/L		0.0304				0.296	20	
Matrix Spike (B325949-MS1)		**Source: 22L0331-10**		Prepared & Analyzed: 12/13/22							
Ethane	0.384		mg/L	0.346	0.158	65.3		0-200			
Ethene	0.327		mg/L	0.324	0.122	63.4		0-200			
Matrix Spike (B325949-MS2)		**Source: 22L0331-10RE1**		Prepared & Analyzed: 12/13/22							
Methane	12.6		mg/L	0.184	12.9	**-186**	*	0-200			MS-19
Matrix Spike Dup (B325949-MSD1)		**Source: 22L0331-10**		Prepared & Analyzed: 12/13/22							
Ethane	0.377		mg/L	0.346	0.158	63.3		0-200	1.83		
Ethene	0.323		mg/L	0.324	0.122	62.0		0-200	1.43		
Matrix Spike Dup (B325949-MSD2)		**Source: 22L0331-10RE1**		Prepared & Analyzed: 12/13/22							
Methane	11.7		mg/L	0.184	12.9	**-687**	*	0-200	7.61		MS-19
Batch B325950 - RSK175											
Blank (B325950-BLK1)				Prepared & Analyzed: 12/14/22							
Ethane	ND	0.014	mg/L								
Ethene	ND	0.017	mg/L								
Methane	ND	0.0070	mg/L								
LCS (B325950-BS1)				Prepared & Analyzed: 12/14/22							
Ethane	0.28		mg/L	0.338		81.9		70.1-110			
Ethene	0.27		mg/L	0.316		83.9		67.5-110			
Methane	0.16		mg/L	0.179		89.9		70.9-110			
Duplicate (B325950-DUP1)		**Source: 22L0331-25**		Prepared & Analyzed: 12/14/22							
Ethane	0.124	0.014	mg/L		0.139				11.4	20	
Ethene	0.0247	0.017	mg/L		0.0261				5.43	20	
Methane	2.14	0.0070	mg/L		2.41				11.8	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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
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-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-23	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 outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
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.
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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
RSK175 in Water	
Ethane	VA,NY,ME
Ethene	VA,NY,ME
Methane	VA,NY,ME
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	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
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,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
trans-1,4-Dichloro-2-butene	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
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	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
SW-846 8260D in Water	
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,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
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	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
1,3,5-Trichlorobenzene	ME
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
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

Pace Analytical®

Phone: 612-607-6400 2210331
Fax: 612-607-6344

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 4

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: Arcadis
Address: One Lincoln Center 110 West Fayette St. Syracuse
Phone: 315-992-0568
Project Name: Jacobs Dry Cleaners
Project Location: Brewerton NY
Project Number: 30135043
Project Manager: Stefan Bugnacki
Pace Analytical Quote Name/Number: Contract #: C100701, ID: 145616
Invoice Recipient: Bill NYS DEC
Sampled By: Daniel Meardo

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: Stefan.Bugnacki@arcadis
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	VOC 8260	Dissolved Gas 12SK-175	MS/MSD
1	IV-29	11-29-22	0940		X	GW		X	X	X
2	IV-25	11-29-22	1140		X			X	X	
3	IV-24	11-29-22	1345		X			X	X	
4	IV-19	11-29-22	1450		X			X	X	
5	MW-14BR	11-29-22	1600		X			X	X	
6	MW-11	11-29-22	1530		X			X	X	
7	IV-7	11-29-22	1405		X			X	X	
8	IV-11	11-29-22	1300		X			X	X	
9	IV-14	11-29-22	1115		X			X	X	
10	IV-17	11-29-22	0955		X			X	X	X

# of Containers	2	2								
[2] Preservation Code	H	H								
[3] Container Code	V	V								

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
- ASP Cat B Deliverables
- Arcadis EQuIS 4-File EDD's

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
	12-1-22 1600
Received by: (signature) 4.3.81 5.3	Date/Time: 12/2/22 954
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Pace Analytical®
Phone: 612-607-6400
Fax: 612-607-6344
https://www.pacelabs.com/
1800 Elm Street SE
Minneapolis, MN 55414

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	Arcadis
Address:	One Lincoln Center 110 West Fayette St. Syracuse
Phone:	315-992-0568
Project Name:	Jacobs Dry Cleaners
Project Location:	Brewerton NY
Project Number:	30135043
Project Manager:	Stefan Bagnato
Pace Analytical Quote Name/Number:	Contract: C100701, ID: 145616
Invoice Recipient:	Bills NYS DEC
Sampled By:	Daniel Meandro

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: Stefan.Bagnato@arcadis
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	VOC 8260	Dissolved Gases RSK175
11	IV-3	11-30-22	0920		X	GW		X	X
12	MW-15	11-30-22	1035		X			X	X
13	MW-15BR	11-30-22	1145		X			X	X
14	IV-1	11-30-22	1330		X			X	X
15	IV-2	11-30-22	1615		X			X	X
16	MW-13	11-30-22	1035		X			X	X
17	MW-9	11-30-22	1130		X			X	X
18	MW-10BR	11-30-22	0855		X			X	X
19	MW-5	11-30-22	1510		X			X	X
20	MW-14	11-30-22	1340		X	↓		X	X

# of Containers	2 2
[2] Preservation Code	H H
[3] Container Code	V V

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments:
- ASP Cat B Deliverables
- Arcadis EQuIS 4-File EDD's

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
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[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 12-1-22 1600
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: Arcadis

Address: One Lincoln Center 110 West Fayette st. Syracuse

Phone: 315-992-0568

Project Name: Jack's Dry Cleaners

Project Location: Brewerton NY

Project Number: 20135043

Project Manager: Stefan Bergstol

Pace Analytical Quote Name/Number: Contract #C100701, ID: 145616

Invoice Recipient: Bill NYS DEC

Sampled By: Daniel Meander

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	VOC 8260	Dissolved Gases RSK-175	1,4-Dioxane (SIM)	1633 (40 comp)	PFAS YS/MSD	# of Containers	Preservation Code	Container Code
21	MW-17	12-1-22	0930		X	GW		X	X				2	H	V
22	MW-17BR	12-1-22	1045		X			X	X				2	H	V
23	MW-16	12-1-22	1325		X			X	X				2	H	V
24	MW-16BR	12-1-22	1220		X			X	X				2	H	V
25	MW-1R	12-1-22	1420		X			X	X	X			3	I	P
26	MW-7	12-1-22	1240		X			X	X	X			3	I	P
27	MW-12	12-1-22	1050		X			X	X	X	X		6	I	P
28	MW-2	12-1-22	0910		X			X	X				2	H	V
~~29~~	DUP-120122	12-1-22	—		X					X			3	I	P
29 Bottle	DUP-112922-1	11-29-22	—					X	X				2	H	V

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments:
- ASP Cat B Deliverables
- Arcadis EQuIS 4-File EDD's

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Relinquished by: (signature)	Date/Time: 12-1-22 1600	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
ceived by: (signature)	Date/Time:	
linquished by: (signature)	Date/Time:	
ceived by: (signature)	Date/Time:	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
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☐ Non Soxhlet

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1800 Elm Street SE
Minneapolis, MN 55414

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: Arcadis

Address: One Lincoln Center 110 West Fayette St. Syracuse

Phone: 315-992-0568

Project Name: Jacobs Dry Cleaners

Project Location: Breverton NY

Project Number: 30135043

Project Manager: Stefan Baginabo

Pace Analytical Quote Name/Number: Contract #: C100701, ID: 145616

Invoice Recipient: Bill NYS DEC

Sampled By: Daniel Meander

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7-Day ☐ 10-Day ☐
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Data Delivery
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Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	VOC 8260	Dissolved Gas (RK-175)	5-PFAS 1633
3031	DUP-112922-02	11-29-22	—		X	GW		X	X	
32	EQ-120122	12-1-22	1545		X	DI				X
D										

ANALYSIS REQUESTED

# of Containers	2	2	3
[2] Preservation Code	H	H	
[3] Container Code	V	V	

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

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- Arcadis EQuIS 4-File EDD's

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H - High; M - Medium; L - Low; C - Clean; U - Unknown

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Received by: (signature)		Date/Time:
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Program & Regulatory Information
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Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

[redacted]

FedEx® Tracking

DELIVERED

Friday

12/2/2022 at 9:54 am

Signed for by: L.RIOW

Obtain Proof of delivery

How was your delivery?

☆ ☆ ☆ ☆ ☆

DELIVERY STATUS

Delivered

TRACKING ID

791314586832

FROM
Syracuse, NY US

Label Created
11/21/2022 12:52 PM

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
12/1/2022 5:22 PM

IN TRANSIT
WINDSOR LOCKS, CT
12/2/2022 7:48 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
12/2/2022 7:57 AM

DELIVERED
East Longmeadow, MA US

DELIVERED
12/2/2022 at 9:54 AM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

SUBMIT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

Pace PEOPLE ADVANCING SCIENCE

Doc# 277 Rev 6 July 2022

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Received By Arcadis LA Date 12/7/22 Time 954

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct From Sample F Ambient _____ Melted Ice _____

Were samples within Tempurature? Within 2-6°C T By Gun # 5 Actual Temp - 4.9/3.8/5.3

By Blank # _____ Actual Temp - _____

Was Custody Seal In tact? N/A By Blank # _____ Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client? T Analysis? T Sampler Name? T

Project? T ID's? T Collection Dates/Times? T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Samples are received within holding time? T Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T splitting samples required? F (LP)

Were trip blanks receive F On COC? F

Do All Samples Have the proper pH? N/A Acid Base

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	1	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

1 vial broken in transit.

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 19, 2022

Stephanie Fitzgerald
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Breverton, NY
Client Job Number:
Project Number: 734112
Laboratory Work Order Number: 22L0428

Enclosed are results of analyses for samples as received by the laboratory on December 3, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Stephanie Fitzgerald

REPORT DATE: 12/19/2022

PURCHASE ORDER NUMBER: 145616

PROJECT NUMBER: 734112

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22L0428

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Breverton, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IW-31	22L0428-01	Ground Water		RSK175	
				SW-846 8260D	
MW-8	22L0428-02	Ground Water		RSK175	
				SW-846 8260D	
Trip Blank	22L0428-03	Ground Water		SW-846 8260D	

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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.

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SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Methyl Acetate
B325215-BS1, B325215-BSD1, S080515-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:

Vinyl Chloride
22L0428-01[IW-31], B325215-BS1, B325215-BSD1, S080515-CCV1

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:

Acrylonitrile
22L0428-01[IW-31], 22L0428-02[MW-8], 22L0428-03[Trip Blank], B325215-BLK1, B325215-BS1, B325215-BSD1, S080515-CCV1

tert-Butyl Alcohol (TBA)
22L0428-01[IW-31], 22L0428-02[MW-8], 22L0428-03[Trip Blank], B325215-BLK1, B325215-BS1, B325215-BSD1, S080515-CCV1

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:

2,2-Dichloropropane
22L0428-01[IW-31], 22L0428-02[MW-8], 22L0428-03[Trip Blank], B325215-BLK1, B325215-BS1, B325215-BSD1, S080515-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:

Acetone
22L0428-01[IW-31], 22L0428-02[MW-8], B325215-BS1, B325215-BSD1, S080515-CCV1

Vinyl Chloride
22L0428-01[IW-31], B325215-BS1, B325215-BSD1, S080515-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:

2-Butanone (MEK)
B325215-BS1, B325215-BSD1, S080515-CCV1

2-Hexanone (MBK)
B325215-BS1, B325215-BSD1, S080515-CCV1

4-Methyl-2-pentanone (MIBK)
B325215-BS1, B325215-BSD1, S080515-CCV1

Diethyl Ether
B325215-BS1, B325215-BSD1, S080515-CCV1

Methyl Acetate
B325215-BS1, B325215-BSD1, S080515-CCV1

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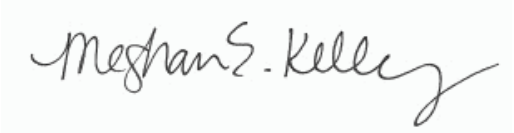
The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in 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

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Breverton, NY | Sample Description: | Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: IW-31 | Sampled: 12/2/2022 09:45

Sample ID: 22L0428-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.5	50	2.0	µg/L	1	J, V-06	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1	R-05	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1	R-05	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
cis-1,2-Dichloroethylene	2.2	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1	V-05	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH

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Project Location: Breverton, NY | Sample Description: | Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: IW-31 | Sampled: 12/2/2022 09:45

Sample ID: 22L0428-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Tetrachloroethylene	0.48	1.0	0.19	µg/L	1	J	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Trichloroethylene	0.43	1.0	0.19	µg/L	1	J	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Vinyl Chloride	4.4	2.0	0.21	µg/L	1	L-06, V-06	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		12/10/22 3:15
Toluene-d8	101	70-130		12/10/22 3:15
4-Bromofluorobenzene	101	70-130		12/10/22 3:15

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Project Location: Breverton, NY | Sample Description: | Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: IW-31 | Sampled: 12/2/2022 09:45

Sample ID: 22L0428-01

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 13:07	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 13:07	TPH
Methane	11	0.035	0.0060	mg/L	5		RSK175	12/13/22	12/13/22 13:16	TPH

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Project Location: Breverton, NY | Sample Description: | Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: MW-8 | Sampled: 12/2/2022 11:40

Sample ID: 22L0428-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	3.1	50	2.0	µg/L	1	J, V-06	SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1	R-05	SW-846 8260D	12/8/22	12/10/22 3:42	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1	R-05	SW-846 8260D	12/8/22	12/10/22 3:42	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1	V-05	SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Breverton, NY | Sample Description: | Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: MW-8 | Sampled: 12/2/2022 11:40

Sample ID: 22L0428-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		12/10/22 3:42
Toluene-d8	98.7	70-130		12/10/22 3:42
4-Bromofluorobenzene	99.6	70-130		12/10/22 3:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Breverton, NY | Sample Description: | Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: MW-8 | Sampled: 12/2/2022 11:40

Sample ID: 22L0428-02

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 13:24	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 13:24	TPH
Methane	0.019	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 13:24	TPH

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Project Location: Breverton, NY | Sample Description: | Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: Trip Blank | Sampled: 12/2/2022 00:00

Sample ID: 22L0428-03

Sample Matrix: Ground 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	12/8/22	12/10/22 0:32	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1	R-05	SW-846 8260D	12/8/22	12/10/22 0:32	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1	R-05	SW-846 8260D	12/8/22	12/10/22 0:32	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Chloroform	1.0	2.0	0.17	µg/L	1	J	SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1	V-05	SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Breverton, NY | Sample Description: | Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: Trip Blank | Sampled: 12/2/2022 00:00

Sample ID: 22L0428-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		12/10/22 0:32
Toluene-d8	97.3	70-130		12/10/22 0:32
4-Bromofluorobenzene	101	70-130		12/10/22 0:32

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: RSK175 **Analytical Method: RSK175**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22L0428-01 [IW-31]	B325949	1.00	1.00	12/13/22
22L0428-01RE1 [IW-31]	B325949	1.00	1.00	12/13/22
22L0428-02 [MW-8]	B325949	1.00	1.00	12/13/22

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22L0428-01 [IW-31]	B325215	5	5.00	12/08/22
22L0428-02 [MW-8]	B325215	5	5.00	12/08/22
22L0428-03 [Trip Blank]	B325215	5	5.00	12/08/22

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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 B325215 - SW-846 5030B										
Blank (B325215-BLK1)				Prepared: 12/08/22 Analyzed: 12/10/22						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	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							R-05
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	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							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	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							
trans-1,4-Dichloro-2-butene	ND	2.0	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							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							V-05
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	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 B325215 - SW-846 5030B											
Blank (B325215-BLK1)				Prepared: 12/08/22 Analyzed: 12/10/22							
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								
Naphthalene	ND	2.0	µg/L								
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	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								
1,3,5-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								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	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								
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103	70-130				
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.4	70-130				
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		99.9	70-130				
LCS (B325215-BS1)				Prepared: 12/08/22 Analyzed: 12/09/22							
Acetone	140	50	µg/L	100		140	70-160			V-06	†
Acrylonitrile	7.46	5.0	µg/L	10.0		74.6	70-130			R-05	
tert-Amyl Methyl Ether (TAME)	9.77	0.50	µg/L	10.0		97.7	70-130				
Benzene	9.21	1.0	µg/L	10.0		92.1	70-130				
Bromobenzene	11.6	1.0	µg/L	10.0		116	70-130				
Bromochloromethane	10.8	1.0	µg/L	10.0		108	70-130				
Bromodichloromethane	10.0	0.50	µg/L	10.0		100	70-130				
Bromoform	10.4	1.0	µg/L	10.0		104	70-130				
Bromomethane	11.2	2.0	µg/L	10.0		112	40-160				†
2-Butanone (MEK)	128	20	µg/L	100		128	40-160			V-20	†
tert-Butyl Alcohol (TBA)	62.3	20	µg/L	100		62.3	40-160			R-05	†
n-Butylbenzene	9.99	1.0	µg/L	10.0		99.9	70-130				
sec-Butylbenzene	9.91	1.0	µg/L	10.0		99.1	70-130				
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
tert-Butyl Ethyl Ether (TBEE)	10.6	0.50	µg/L	10.0		106	70-130				
Carbon Disulfide	86.6	5.0	µg/L	100		86.6	70-130				
Carbon Tetrachloride	9.36	5.0	µg/L	10.0		93.6	70-130				
Chlorobenzene	10.9	1.0	µg/L	10.0		109	70-130				
Chlorodibromomethane	10.1	0.50	µg/L	10.0		101	70-130				
Chloroethane	10.5	2.0	µg/L	10.0		105	70-130				
Chloroform	9.63	2.0	µg/L	10.0		96.3	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	
Batch B325215 - SW-846 5030B											
LCS (B325215-BS1)				Prepared: 12/08/22 Analyzed: 12/09/22							
Chloromethane	12.7	2.0	µg/L	10.0		127	40-160				†
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130				
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	11.1	5.0	µg/L	10.0		111	70-130				
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130				
Dibromomethane	10.9	1.0	µg/L	10.0		109	70-130				
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130				
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130				
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130				
trans-1,4-Dichloro-2-butene	10.5	2.0	µg/L	10.0		105	70-130				
Dichlorodifluoromethane (Freon 12)	9.39	2.0	µg/L	10.0		93.9	40-160				†
1,1-Dichloroethane	9.26	1.0	µg/L	10.0		92.6	70-130				
1,2-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130				
1,1-Dichloroethylene	9.79	1.0	µg/L	10.0		97.9	70-130				
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130				
trans-1,2-Dichloroethylene	9.25	1.0	µg/L	10.0		92.5	70-130				
1,2-Dichloropropane	10.5	1.0	µg/L	10.0		105	70-130				
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130				
2,2-Dichloropropane	7.02	1.0	µg/L	10.0		70.2	40-130			V-05	†
1,1-Dichloropropene	9.69	2.0	µg/L	10.0		96.9	70-130				
cis-1,3-Dichloropropene	9.65	0.50	µg/L	10.0		96.5	70-130				
trans-1,3-Dichloropropene	9.77	0.50	µg/L	10.0		97.7	70-130				
Diethyl Ether	11.7	2.0	µg/L	10.0		117	70-130			V-20	
Diisopropyl Ether (DIPE)	11.3	0.50	µg/L	10.0		113	70-130				
1,4-Dioxane	119	50	µg/L	100		119	40-130				†
Ethylbenzene	10.7	1.0	µg/L	10.0		107	70-130				
Hexachlorobutadiene	10.3	0.60	µg/L	10.0		103	70-130				
2-Hexanone (MBK)	137	10	µg/L	100		137	70-160			V-20	†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130				
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130				
Methyl Acetate	14.4	1.0	µg/L	10.0		**144**	* 70-130			L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.0		105	70-130				
Methyl Cyclohexane	10.8	1.0	µg/L	10.0		108	70-130				
Methylene Chloride	7.18	5.0	µg/L	10.0		71.8	70-130				
4-Methyl-2-pentanone (MIBK)	128	10	µg/L	100		128	70-160			V-20	†
Naphthalene	12.3	2.0	µg/L	10.0		123	40-130				†
n-Propylbenzene	10.7	1.0	µg/L	10.0		107	70-130				
Styrene	10.9	1.0	µg/L	10.0		109	70-130				
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130				
1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.0		112	70-130				
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130				
Tetrahydrofuran	12.5	10	µg/L	10.0		125	70-130				
Toluene	10.0	1.0	µg/L	10.0		100	70-130				
1,2,3-Trichlorobenzene	12.3	5.0	µg/L	10.0		123	70-130				
1,2,4-Trichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130				
1,3,5-Trichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130				
1,1,1-Trichloroethane	9.62	1.0	µg/L	10.0		96.2	70-130				
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130				
Trichloroethylene	11.1	1.0	µg/L	10.0		111	70-130				
Trichlorofluoromethane (Freon 11)	9.40	2.0	µg/L	10.0		94.0	70-130				
1,2,3-Trichloropropane	11.9	2.0	µg/L	10.0		119	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 B325215 - SW-846 5030B													
LCS (B325215-BS1)				Prepared: 12/08/22 Analyzed: 12/09/22									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.30	1.0	µg/L	10.0		83.0		70-130					
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103		70-130					
1,3,5-Trimethylbenzene	11.3	1.0	µg/L	10.0		113		70-130					
Vinyl Chloride	26.7	2.0	µg/L	10.0		**267**	*	40-160				L-06, V-06	†
m+p Xylene	21.7	2.0	µg/L	20.0		108		70-130					
o-Xylene	11.1	1.0	µg/L	10.0		111		70-130					
Surrogate: 1,2-Dichloroethane-d4	*25.3*		µg/L	25.0		101		70-130					
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.5		70-130					
Surrogate: 4-Bromofluorobenzene	*26.5*		µg/L	25.0		106		70-130					
LCS Dup (B325215-BSD1)				Prepared: 12/08/22 Analyzed: 12/09/22									
Acetone	140	50	µg/L	100		140		70-160	0.0783		25	V-06	†
Acrylonitrile	9.81	5.0	µg/L	10.0		98.1		70-130	**27.2**	*	25	R-05	
tert-Amyl Methyl Ether (TAME)	10.4	0.50	µg/L	10.0		104		70-130	6.73		25		
Benzene	9.63	1.0	µg/L	10.0		96.3		70-130	4.46		25		
Bromobenzene	11.8	1.0	µg/L	10.0		118		70-130	1.89		25		
Bromochloromethane	11.0	1.0	µg/L	10.0		110		70-130	1.38		25		
Bromodichloromethane	9.88	0.50	µg/L	10.0		98.8		70-130	1.61		25		
Bromoform	10.2	1.0	µg/L	10.0		102		70-130	2.13		25		
Bromomethane	13.0	2.0	µg/L	10.0		130		40-160	15.4		25		†
2-Butanone (MEK)	126	20	µg/L	100		126		40-160	1.23		25	V-20	†
tert-Butyl Alcohol (TBA)	90.2	20	µg/L	100		90.2		40-160	**36.6**	*	25	R-05	†
n-Butylbenzene	10.2	1.0	µg/L	10.0		102		70-130	2.28		25		
sec-Butylbenzene	10.3	1.0	µg/L	10.0		103		70-130	3.76		25		
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106		70-130	3.95		25		
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	µg/L	10.0		109		70-130	2.79		25		
Carbon Disulfide	91.5	5.0	µg/L	100		91.5		70-130	5.54		25		
Carbon Tetrachloride	9.48	5.0	µg/L	10.0		94.8		70-130	1.27		25		
Chlorobenzene	11.1	1.0	µg/L	10.0		111		70-130	1.73		25		
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102		70-130	1.28		25		
Chloroethane	11.9	2.0	µg/L	10.0		119		70-130	12.5		25		
Chloroform	10.1	2.0	µg/L	10.0		101		70-130	4.47		25		
Chloromethane	13.6	2.0	µg/L	10.0		136		40-160	6.62		25		†
2-Chlorotoluene	10.6	1.0	µg/L	10.0		106		70-130	2.38		25		
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110		70-130	0.181		25		
1,2-Dibromo-3-chloropropane (DBCP)	11.1	5.0	µg/L	10.0		111		70-130	0.630		25		
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108		70-130	1.10		25		
Dibromomethane	10.8	1.0	µg/L	10.0		108		70-130	0.735		25		
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110		70-130	1.83		25		
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109		70-130	2.04		25		
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130	0.188		25		
trans-1,4-Dichloro-2-butene	10.4	2.0	µg/L	10.0		104		70-130	1.05		25		
Dichlorodifluoromethane (Freon 12)	9.77	2.0	µg/L	10.0		97.7		40-160	3.97		25		†
1,1-Dichloroethane	9.70	1.0	µg/L	10.0		97.0		70-130	4.64		25		
1,2-Dichloroethane	10.9	1.0	µg/L	10.0		109		70-130	3.65		25		
1,1-Dichloroethylene	10.4	1.0	µg/L	10.0		104		70-130	6.43		25		
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101		70-130	1.48		25		
trans-1,2-Dichloroethylene	8.82	1.0	µg/L	10.0		88.2		70-130	4.76		25		
1,2-Dichloropropane	10.7	1.0	µg/L	10.0		107		70-130	1.89		25		
1,3-Dichloropropane	11.4	0.50	µg/L	10.0		114		70-130	3.66		25		
2,2-Dichloropropane	7.13	1.0	µg/L	10.0		71.3		40-130	1.55		25	V-05	†
1,1-Dichloropropene	10.3	2.0	µg/L	10.0		103		70-130	5.71		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 B325215 - SW-846 5030B												
LCS Dup (B325215-BSD1)				Prepared: 12/08/22 Analyzed: 12/09/22								
cis-1,3-Dichloropropene	9.47	0.50	µg/L	10.0		94.7		70-130	1.88	25		
trans-1,3-Dichloropropene	9.26	0.50	µg/L	10.0		92.6		70-130	5.36	25		
Diethyl Ether	12.9	2.0	µg/L	10.0		129		70-130	10.2	25	V-20	
Diisopropyl Ether (DIPE)	11.3	0.50	µg/L	10.0		113		70-130	0.00	25		
1,4-Dioxane	116	50	µg/L	100		116		40-130	2.08	50		† ‡
Ethylbenzene	10.9	1.0	µg/L	10.0		109		70-130	1.30	25		
Hexachlorobutadiene	10.6	0.60	µg/L	10.0		106		70-130	3.15	25		
2-Hexanone (MBK)	133	10	µg/L	100		133		70-160	2.91	25	V-20	†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108		70-130	0.556	25		
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0		104		70-130	1.94	25		
Methyl Acetate	14.5	1.0	µg/L	10.0		**145**	*	70-130	0.900	25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0		107		70-130	1.69	25		
Methyl Cyclohexane	11.4	1.0	µg/L	10.0		114		70-130	5.95	25		
Methylene Chloride	7.60	5.0	µg/L	10.0		76.0		70-130	5.68	25		
4-Methyl-2-pentanone (MIBK)	129	10	µg/L	100		129		70-160	0.678	25	V-20	†
Naphthalene	12.8	2.0	µg/L	10.0		128		40-130	3.74	25		†
n-Propylbenzene	11.0	1.0	µg/L	10.0		110		70-130	2.49	25		
Styrene	11.1	1.0	µg/L	10.0		111		70-130	1.45	25		
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106		70-130	0.00	25		
1,1,2,2-Tetrachloroethane	11.8	0.50	µg/L	10.0		118		70-130	4.61	25		
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109		70-130	2.60	25		
Tetrahydrofuran	12.8	10	µg/L	10.0		128		70-130	2.29	25		
Toluene	10.4	1.0	µg/L	10.0		104		70-130	3.04	25		
1,2,3-Trichlorobenzene	13.0	5.0	µg/L	10.0		130		70-130	5.47	25		
1,2,4-Trichlorobenzene	11.6	1.0	µg/L	10.0		116		70-130	6.38	25		
1,3,5-Trichlorobenzene	11.8	1.0	µg/L	10.0		118		70-130	4.60	25		
1,1,1-Trichloroethane	9.92	1.0	µg/L	10.0		99.2		70-130	3.07	25		
1,1,2-Trichloroethane	11.6	1.0	µg/L	10.0		116		70-130	2.00	25		
Trichloroethylene	11.1	1.0	µg/L	10.0		111		70-130	0.451	25		
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102		70-130	7.87	25		
1,2,3-Trichloropropane	12.2	2.0	µg/L	10.0		122		70-130	3.07	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.59	1.0	µg/L	10.0		85.9		70-130	3.43	25		
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.0		106		70-130	2.97	25		
1,3,5-Trimethylbenzene	11.5	1.0	µg/L	10.0		115		70-130	1.76	25		
Vinyl Chloride	27.0	2.0	µg/L	10.0		**270**	*	40-160	1.04	25	L-06, V-06	†
m+p Xylene	22.1	2.0	µg/L	20.0		110		70-130	1.78	25		
o-Xylene	11.2	1.0	µg/L	10.0		112		70-130	0.717	25		
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102		70-130				
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.8		70-130				
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		104		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
Batch B325949 - RSK175										
Blank (B325949-BLK1)				Prepared & Analyzed: 12/13/22						
Ethane	ND	0.014	mg/L							
Ethene	ND	0.017	mg/L							
Methane	ND	0.0070	mg/L							
LCS (B325949-BS1)				Prepared & Analyzed: 12/13/22						
Ethane	0.26		mg/L	0.339		77.9	70.1-110			
Ethene	0.24		mg/L	0.317		76.5	67.5-110			
Methane	0.14		mg/L	0.180		79.3	70.9-110			

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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-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high 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.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
RSK175 in Water	
Ethane	VA,NY,ME
Ethene	VA,NY,ME
Methane	VA,NY,ME
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	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
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,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
trans-1,4-Dichloro-2-butene	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
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,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
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	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
1,3,5-Trichlorobenzene	ME
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
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

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1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 1

22L0478

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	ArcAdis
Address:	One Lincoln Center 110 West Fayette St. Syracuse
Phone:	315-992-0568
Project Name:	Jacks Dry Cleaners
Project Location:	Brewerton NY
Project Number:	30135043
Project Manager:	Stefan Bagnato
Pace Analytical Quote Name/Number:	Contract#: C100701 ID: 145616
Invoice Recipient:	Bill NYS DEC
Sampled By:	Daniel Meandro

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: Stefan.Bagnato@arcadis.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	VOC 8260	Dissolved Gas (RSK-175)
1	IW-31	12-2-22	0945		X	GW		X	X
2	MW-8	12-2-22	1140		X			X	X
3	TRIP BLANK	—	—			DI		X	

# of Containers	2 2
[2] Preservation Code	HCl H
[3] Container Code	V S

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments:
- ASP Cat B Deliverable
- ArcAdis EQUIS 4-File EDD's

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 12-2-22 1300
Received by: (signature)	Date/Time: 12/3 847
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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[redacted]

FedEx® Tracking

DELIVERED

Saturday

12/3/2022 at 8:47 am

Signature not required
Package delivered to recipient address

Obtain Proof of delivery

DELIVERY STATUS

Delivered

TRACKING ID

391557283854

FROM
EAST LONGMEADOW, MA US

Label Created
12/2/2022 12:11 PM

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
12/2/2022 4:03 PM

IN TRANSIT
WINDSOR LOCKS, CT
12/3/2022 7:29 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
12/3/2022 7:29 AM

DELIVERED
East Longmeadow, MA US

DELIVERED
12/3/2022 at 8:47 AM

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Pace PEOPLE ADVANCING SCIENCE

Doc# 277 Rev 6 July 2022

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Arcadis

Received By [illegible] Date 12/3 Time 847

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____

Direct From Sample ____ Ambient ____ Melted Ice ____

Were samples within Tempurature? Within 2-6°C T By Gun # 3 Actual Temp - 2.1

By Blank # ____ Actual Temp - ____

Was Custody Seal In tact? T Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client? T Analysis? T Sampler Name? T

Project? T ID's? T Collection Dates/Times? T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? F Who was notified? ____

Are there Short Holds? F Who was notified? ____

Samples are received within holding time? T Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T splitting samples require F

Were trip blanks receive T On COC? T

Do All Samples Have the proper pH? NA Acid Base

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	10	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

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January 16, 2023

Stephanie Fitzgerald
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Brewerton, NY
Client Job Number:
Project Number: 734112
Laboratory Work Order Number: 22L0503

Enclosed are results of analyses for samples as received by the laboratory on December 5, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Stephanie Fitzgerald

REPORT DATE: 1/16/2023

PURCHASE ORDER NUMBER: 145616

PROJECT NUMBER: 734112

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22L0503

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Brewerton, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1R	22L0503-01	Ground Water		Draft Method 1633	MA M-MA-086/CT PH-0574/NY11148
MW-7	22L0503-02	Ground Water		Draft Method 1633	MA M-MA-086/CT PH-0574/NY11148
MW-12	22L0503-03	Ground Water		Draft Method 1633	MA M-MA-086/CT PH-0574/NY11148
DUP-120122	22L0503-04	Ground Water		Draft Method 1633	MA M-MA-086/CT PH-0574/NY11148
EQ- 120122	22L0503-05	Ground Water		Draft Method 1633	MA M-MA-086/CT PH-0574/NY11148

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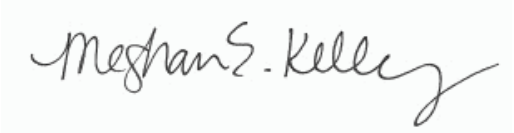
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: MW-1R | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-01

Sample Matrix: Ground 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)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluoropentanoic acid (PFPeA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorohexanoic acid (PFHxA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluoroheptanoic acid (PFHpA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorooctanoic acid (PFOA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorononanoic acid (PFNA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorodecanoic acid (PFDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluoroundecanoic acid (PFUnA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorododecanoic acid (PFDoA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorotridecanoic acid (PFTrDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorotetradecanoic acid (PFTeDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorobutanesulfonic acid (PFBS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluoropetanesulfonic acid (PFPeS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorohexanesulfonic acid (PFHxS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluoroheptanesulfonic acid (PFHpS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorooctanesulfonic acid (PFOS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorononanesulfonic acid (PFNS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorodecanesulfonic acid (PFDS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorododecanesulfonic acid (PFDoS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluorooctanesulfonamide (PFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
N-MeFOSAA (NMeFOSAA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
N-EtFOSAA (NEtFOSAA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
9Cl-PF3ONS (F53B Minor)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
11Cl-PF3OUdS (F53B Major)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Perfluoro-3-methoxypropanoic acid (PFMPA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: MW-1R | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-01

Sample Matrix: Ground 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)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C4-PFBA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C5-PFPeA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C5-PFHxA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C4-PFHpA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C8-PFOA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C9-PFNA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C6-PFDA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C7-PFUnA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C2-PFDoA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C2-PFTeDA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C3-PFBS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C3-PFHxS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C8-PFOS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C2-4:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C2-6:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C2-8:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C8-PFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
D3-NMeFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
D5-NEtFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
D3-NMeFOSAA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
D5-NEtFOSAA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
D7-NMeFOSE (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
D9-NEtFOSE (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL
13C3-HFPO-DA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:11	AAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA		-		1/6/23 18:11
13C5-PFPeA		-		1/6/23 18:11
13C5-PFHxA		-		1/6/23 18:11
13C4-PFHpA		-		1/6/23 18:11
13C8-PFOA		-		1/6/23 18:11
13C9-PFNA		-		1/6/23 18:11
13C6-PFDA		-		1/6/23 18:11
13C7-PFUnA		-		1/6/23 18:11
13C2-PFDoA		-		1/6/23 18:11
13C2-PFTeDA		-		1/6/23 18:11
13C3-PFBS		-		1/6/23 18:11
13C3-PFHxS		-		1/6/23 18:11
13C8-PFOS		-		1/6/23 18:11
13C2-4:2FTS		-		1/6/23 18:11
13C2-6:2FTS		-		1/6/23 18:11
13C2-8:2FTS		-		1/6/23 18:11
13C8-PFOSA		-		1/6/23 18:11
D3-NMeFOSA		-		1/6/23 18:11
D5-NEtFOSA		-		1/6/23 18:11

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: MW-1R | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**		**Recovery Limits**		**Flag/Qual**				
D3-NMeFOSAA				-					1/6/23 18:11	
D5-NEtFOSAA				-					1/6/23 18:11	
D7-NMeFOSE				-					1/6/23 18:11	
D9-NEtFOSE				-					1/6/23 18:11	
13C3-HFPO-DA				-					1/6/23 18:11	

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: MW-7 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-02

Sample Matrix: Ground 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)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluoropentanoic acid (PFPeA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorohexanoic acid (PFHxA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluoroheptanoic acid (PFHpA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorooctanoic acid (PFOA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorononanoic acid (PFNA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorodecanoic acid (PFDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluoroundecanoic acid (PFUnA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorododecanoic acid (PFDoA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorotridecanoic acid (PFTrDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorotetradecanoic acid (PFTeDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorobutanesulfonic acid (PFBS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluoropetanesulfonic acid (PFPeS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorohexanesulfonic acid (PFHxS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluoroheptanesulfonic acid (PFHpS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorooctanesulfonic acid (PFOS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorononanesulfonic acid (PFNS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorodecanesulfonic acid (PFDS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorododecanesulfonic acid (PFDoS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluorooctanesulfonamide (PFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
N-MeFOSAA (NMeFOSAA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
N-EtFOSAA (NEtFOSAA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
9Cl-PF3ONS (F53B Minor)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
11Cl-PF3OUdS (F53B Major)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Perfluoro-3-methoxypropanoic acid (PFMPA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: MW-7 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-02

Sample Matrix: Ground 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)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C4-PFBA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C5-PFPeA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C5-PFHxA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C4-PFHpA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C8-PFOA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C9-PFNA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C6-PFDA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C7-PFUnA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C2-PFDoA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C2-PFTeDA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C3-PFBS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C3-PFHxS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C8-PFOS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C2-4:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C2-6:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C2-8:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C8-PFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
D3-NMeFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
D5-NEtFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
D3-NMeFOSAA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
D5-NEtFOSAA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
D7-NMeFOSE (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
D9-NEtFOSE (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL
13C3-HFPO-DA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/6/23 18:24	AAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA		-		1/6/23 18:24
13C5-PFPeA		-		1/6/23 18:24
13C5-PFHxA		-		1/6/23 18:24
13C4-PFHpA		-		1/6/23 18:24
13C8-PFOA		-		1/6/23 18:24
13C9-PFNA		-		1/6/23 18:24
13C6-PFDA		-		1/6/23 18:24
13C7-PFUnA		-		1/6/23 18:24
13C2-PFDoA		-		1/6/23 18:24
13C2-PFTeDA		-		1/6/23 18:24
13C3-PFBS		-		1/6/23 18:24
13C3-PFHxS		-		1/6/23 18:24
13C8-PFOS		-		1/6/23 18:24
13C2-4:2FTS		-		1/6/23 18:24
13C2-6:2FTS		-		1/6/23 18:24
13C2-8:2FTS		-		1/6/23 18:24
13C8-PFOSA		-		1/6/23 18:24
D3-NMeFOSA		-		1/6/23 18:24
D5-NEtFOSA		-		1/6/23 18:24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: MW-7 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**		**Recovery Limits**		**Flag/Qual**				
D3-NMeFOSAA				-					1/6/23 18:24	
D5-NEtFOSAA				-					1/6/23 18:24	
D7-NMeFOSE				-					1/6/23 18:24	
D9-NEtFOSE				-					1/6/23 18:24	
13C3-HFPO-DA				-					1/6/23 18:24	

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: MW-12 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-03

Sample Matrix: Ground 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)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluoropentanoic acid (PFPeA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorohexanoic acid (PFHxA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluoroheptanoic acid (PFHpA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorooctanoic acid (PFOA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorononanoic acid (PFNA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorodecanoic acid (PFDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluoroundecanoic acid (PFUnA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorododecanoic acid (PFDoA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorotridecanoic acid (PFTrDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorotetradecanoic acid (PFTeDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorobutanesulfonic acid (PFBS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluoropetanesulfonic acid (PFPeS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorohexanesulfonic acid (PFHxS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluoroheptanesulfonic acid (PFHpS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorooctanesulfonic acid (PFOS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorononanesulfonic acid (PFNS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorodecanesulfonic acid (PFDS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorododecanesulfonic acid (PFDoS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluorooctanesulfonamide (PFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
N-MeFOSAA (NMeFOSAA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
N-EtFOSAA (NEtFOSAA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
9Cl-PF3ONS (F53B Minor)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
11Cl-PF3OUdS (F53B Major)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Perfluoro-3-methoxypropanoic acid (PFMPA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: MW-12 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-03

Sample Matrix: Ground 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)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C4-PFBA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C5-PFPeA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C5-PFHxA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C4-PFHpA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C8-PFOA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C9-PFNA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C6-PFDA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C7-PFUnA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C2-PFDoA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C2-PFTeDA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C3-PFBS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C3-PFHxS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C8-PFOS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C2-4:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C2-6:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C2-8:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C8-PFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
D3-NMeFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
D5-NEtFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
D3-NMeFOSAA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
D5-NEtFOSAA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
D7-NMeFOSE (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
D9-NEtFOSE (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL
13C3-HFPO-DA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 14:25	AAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA		-		1/5/23 14:25
13C5-PFPeA		-		1/5/23 14:25
13C5-PFHxA		-		1/5/23 14:25
13C4-PFHpA		-		1/5/23 14:25
13C8-PFOA		-		1/5/23 14:25
13C9-PFNA		-		1/5/23 14:25
13C6-PFDA		-		1/5/23 14:25
13C7-PFUnA		-		1/5/23 14:25
13C2-PFDoA		-		1/5/23 14:25
13C2-PFTeDA		-		1/5/23 14:25
13C3-PFBS		-		1/5/23 14:25
13C3-PFHxS		-		1/5/23 14:25
13C8-PFOS		-		1/5/23 14:25
13C2-4:2FTS		-		1/5/23 14:25
13C2-6:2FTS		-		1/5/23 14:25
13C2-8:2FTS		-		1/5/23 14:25
13C8-PFOSA		-		1/5/23 14:25
D3-NMeFOSA		-		1/5/23 14:25
D5-NEtFOSA		-		1/5/23 14:25

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: MW-12 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**		**Recovery Limits**		**Flag/Qual**				
D3-NMeFOSAA				-					1/5/23 14:25	
D5-NEtFOSAA				-					1/5/23 14:25	
D7-NMeFOSE				-					1/5/23 14:25	
D9-NEtFOSE				-					1/5/23 14:25	
13C3-HFPO-DA				-					1/5/23 14:25	

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: DUP-120122 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-04

Sample Matrix: Ground 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)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluoropentanoic acid (PFPeA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorohexanoic acid (PFHxA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluoroheptanoic acid (PFHpA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorooctanoic acid (PFOA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorononanoic acid (PFNA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorodecanoic acid (PFDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluoroundecanoic acid (PFUnA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorododecanoic acid (PFDoA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorotridecanoic acid (PFTrDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorotetradecanoic acid (PFTeDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorobutanesulfonic acid (PFBS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluoropetanesulfonic acid (PFPeS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorohexanesulfonic acid (PFHxS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluoroheptanesulfonic acid (PFHpS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorooctanesulfonic acid (PFOS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorononanesulfonic acid (PFNS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorodecanesulfonic acid (PFDS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorododecanesulfonic acid (PFDoS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluorooctanesulfonamide (PFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
N-MeFOSAA (NMeFOSAA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
N-EtFOSAA (NEtFOSAA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
9Cl-PF3ONS (F53B Minor)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
11Cl-PF3OUdS (F53B Major)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Perfluoro-3-methoxypropanoic acid (PFMPA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: DUP-120122 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-04

Sample Matrix: Ground 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)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C4-PFBA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C5-PFPeA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C5-PFHxA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C4-PFHpA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C8-PFOA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C9-PFNA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C6-PFDA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C7-PFUnA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C2-PFDoA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C2-PFTeDA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C3-PFBS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C3-PFHxS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C8-PFOS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C2-4:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C2-6:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C2-8:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C8-PFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
D3-NMeFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
D5-NEtFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
D3-NMeFOSAA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
D5-NEtFOSAA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
D7-NMeFOSE (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
D9-NEtFOSE (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL
13C3-HFPO-DA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:03	AAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA		-		1/5/23 15:03
13C5-PFPeA		-		1/5/23 15:03
13C5-PFHxA		-		1/5/23 15:03
13C4-PFHpA		-		1/5/23 15:03
13C8-PFOA		-		1/5/23 15:03
13C9-PFNA		-		1/5/23 15:03
13C6-PFDA		-		1/5/23 15:03
13C7-PFUnA		-		1/5/23 15:03
13C2-PFDoA		-		1/5/23 15:03
13C2-PFTeDA		-		1/5/23 15:03
13C3-PFBS		-		1/5/23 15:03
13C3-PFHxS		-		1/5/23 15:03
13C8-PFOS		-		1/5/23 15:03
13C2-4:2FTS		-		1/5/23 15:03
13C2-6:2FTS		-		1/5/23 15:03
13C2-8:2FTS		-		1/5/23 15:03
13C8-PFOSA		-		1/5/23 15:03
D3-NMeFOSA		-		1/5/23 15:03
D5-NEtFOSA		-		1/5/23 15:03

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: DUP-120122 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**		**Recovery Limits**		**Flag/Qual**				
D3-NMeFOSAA				-					1/5/23 15:03	
D5-NEtFOSAA				-					1/5/23 15:03	
D7-NMeFOSE				-					1/5/23 15:03	
D9-NEtFOSE				-					1/5/23 15:03	
13C3-HFPO-DA				-					1/5/23 15:03	

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: EQ- 120122 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-05

Sample Matrix: Ground 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)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluoropentanoic acid (PFPeA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorohexanoic acid (PFHxA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluoroheptanoic acid (PFHpA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorooctanoic acid (PFOA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorononanoic acid (PFNA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorodecanoic acid (PFDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluoroundecanoic acid (PFUnA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorododecanoic acid (PFDoA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorotridecanoic acid (PFTrDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorotetradecanoic acid (PFTeDA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorobutanesulfonic acid (PFBS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluoropetanesulfonic acid (PFPeS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorohexanesulfonic acid (PFHxS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluoroheptanesulfonic acid (PFHpS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorooctanesulfonic acid (PFOS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorononanesulfonic acid (PFNS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorodecanesulfonic acid (PFDS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorododecanesulfonic acid (PFDoS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluorooctanesulfonamide (PFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
N-MeFOSAA (NMeFOSAA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
N-EtFOSAA (NEtFOSAA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
9Cl-PF3ONS (F53B Minor)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
11Cl-PF3OUdS (F53B Major)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Perfluoro-3-methoxypropanoic acid (PFMPA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: EQ- 120122 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-05

Sample Matrix: Ground 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)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C4-PFBA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C5-PFPeA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C5-PFHxA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C4-PFHpA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C8-PFOA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C9-PFNA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C6-PFDA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C7-PFUnA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C2-PFDoA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C2-PFTeDA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C3-PFBS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C3-PFHxS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C8-PFOS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C2-4:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C2-6:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C2-8:2FTS (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C8-PFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
D3-NMeFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
D5-NEtFOSA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
D3-NMeFOSAA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
D5-NEtFOSAA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
D7-NMeFOSE (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
D9-NEtFOSE (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL
13C3-HFPO-DA (ISTD)	d Subcontra			ng/L	1		Draft Method 1633	12/28/22	1/5/23 15:16	AAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA		-		1/5/23 15:16
13C5-PFPeA		-		1/5/23 15:16
13C5-PFHxA		-		1/5/23 15:16
13C4-PFHpA		-		1/5/23 15:16
13C8-PFOA		-		1/5/23 15:16
13C9-PFNA		-		1/5/23 15:16
13C6-PFDA		-		1/5/23 15:16
13C7-PFUnA		-		1/5/23 15:16
13C2-PFDoA		-		1/5/23 15:16
13C2-PFTeDA		-		1/5/23 15:16
13C3-PFBS		-		1/5/23 15:16
13C3-PFHxS		-		1/5/23 15:16
13C8-PFOS		-		1/5/23 15:16
13C2-4:2FTS		-		1/5/23 15:16
13C2-6:2FTS		-		1/5/23 15:16
13C2-8:2FTS		-		1/5/23 15:16
13C8-PFOSA		-		1/5/23 15:16
D3-NMeFOSA		-		1/5/23 15:16
D5-NEtFOSA		-		1/5/23 15:16

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewerton, NY | Sample Description: | Work Order: 22L0503

Date Received: 12/5/2022

Field Sample #: EQ- 120122 | Sampled: 12/1/2022 09:30

Sample ID: 22L0503-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**		**Recovery Limits**		**Flag/Qual**				
D3-NMeFOSAA				-					1/5/23 15:16	
D5-NEtFOSAA				-					1/5/23 15:16	
D7-NMeFOSE				-					1/5/23 15:16	
D9-NEtFOSE				-					1/5/23 15:16	
13C3-HFPO-DA				-					1/5/23 15:16	

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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.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires

Pace Analytical®

Phone: 612-607-6400
Fax: 612-607-6344

22L0503

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

1800 Elm Street SE
Minneapolis, MN 55414

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CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	Arcadis
Address:	One Lincoln Center 110 West Fayette St. Syracuse
Phone:	315-992-0568
Project Name:	Jack's Dry Cleaners
Project Location:	Brewerton NY
Project Number:	20135043
Project Manager:	Stefan Bergstol
Pace Analytical Quote Name/Number:	Contract #C100701, ID: 145616
Invoice Recipient:	Bill NYS DEC
Sampled By:	Daniel Meandro

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	VOC 8260	Dissolved Gases RSK-175	1,4-Dioxane 8270 SIM (40 cap)	1633	PFAS ISMSD	# of Containers	Preservation Code	Container Code
	MW-17	12-1-22	0930		X	GW		X	X				2	H	V
	MW-17BR	12-1-22	1045		X			X	X				2	H	V
	MW-16	12-1-22	1325		X			X	X				2	H	V
	MW-16BR	12-1-22	1220		X			X	X				2	H	V
1	MW-1R	12-1-22	1420		X			X	X	X			2	H	V
2	MW-7	12-1-22	1240		X			X	X	X			2	H	V
3	MW-12	12-1-22	1050		X			X	X	X	X		3	I	P
	MW-2	12-1-22	0910		X			X	X				6	H	P
4	DUP-120122	12-1-22	—		X					X					
	DUP-112922-1	11-29-22	—					X	X						

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
- ASP Cat B Deliverables
- ArcaDis EQuIS 4-File EDD's

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)		Date/Time: 12-1-22 1600
Received by: (signature)	3-C	Date/Time: 12/2/22 954
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

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Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 4 of 4

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	Arcadis
Address:	One Lincoln Center 110 West Fayette St. Syracuse
Phone:	315-992-0568
Project Name:	Jacobs Dry Cleaners
Project Location:	Brewerton NY
Project Number:	30135043
Project Manager:	Stefan Bagnato
Pace Analytical Quote Name/Number:	Contract #: C100701, ID: 145616
Invoice Recipient:	Bill NYS DEC
Sampled By:	Darrel Means Jr.

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix[1] Code	Conc Code	VOC 8260	Dissolved Mn BK-175	5-PFAS 1633
	DUP-112922-02	11-29-22	—		X	GW		X	X	
5	EQ-120122	12-1-22	1545		X	DI				X

ANALYSIS REQUESTED

| | | | | | | | | | |

https://www.fedex.com/fedextrack/?trknbr=791314586832

FedEx® Tracking

DELIVERED

Friday

12/2/2022 at 9:54 am

Signed for by: L.RIOW

Obtain Proof of delivery

How was your delivery?

☆ ☆ ☆ ☆ ☆

DELIVERY STATUS

Delivered

TRACKING ID

791314586832

FROM
Syracuse, NY US

Label Created
11/21/2022 12:52 PM

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
12/1/2022 5:22 PM

IN TRANSIT
WINDSOR LOCKS, CT
12/2/2022 7:48 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
12/2/2022 7:57 AM

DELIVERED
East Longmeadow, MA US

DELIVERED
12/2/2022 at 9:54 AM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

SUBMIT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

Pace PEOPLE ADVANCING SCIENCE

Doc# 277 Rev 6 July 2022

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Arcadis

Received By LA Date 12/2/22 Time 954

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct From Sample F Ambient _____ Melted Ice _____

Were samples within Tempurature? Within 2-6°C T By Gun # 5 Actual Temp - 3.0

By Blank # _____ Actual Temp - _____

Was Custody Seal In tact? N/A Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client? T Analysis? T Sampler Name? T

Project? T ID's? T Collection Dates/Times? T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Samples are received within holding time? T Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? T

Proper Media/Containers Used? T splitting samples require T

Were trip blanks receive F On COC? F

Do All Samples Have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	2	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

ANALYTICAL REPORT

Lab Number:	L2269855
Client:	Pace Analytical Services, LLC 39 Spruce Street East Longmeadow, MA 01028
ATTN:	Raymond McCarthy
Phone:	(413) 525-2332
Project Name:	22L0503
Project Number:	Not Specified
Report Date:	01/13/23

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2269855-01	22L0503-01	WATER	Not Specified	12/01/22 09:30	12/13/22
L2269855-02	22L0503-02	WATER	Not Specified	12/01/22 09:30	12/13/22
L2269855-03	22L0503-03	WATER	Not Specified	12/01/22 09:30	12/13/22
L2269855-04	22L0503-04	WATER	Not Specified	12/01/22 09:30	12/13/22
L2269855-05	22L0503-05	WATER	Not Specified	12/01/22 09:30	12/13/22

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by 1633

L2269855-01R, -02R, -03R, -04R, and -05R: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.

L2269855-01R, -02R, -03R, -04R, and WG1728076-4/-5: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

The WG1728076-2 LCS recoveries, associated with L2269855-01R, -02R, -03R, -04R, and -05R, are above the acceptance criteria for perfluorodecanesulfonic acid (pfds) (155%) and perfluorododecane sulfonic acid (pfdos) (165%); however, the associated samples are non-detect to the RL for these target analytes. The results of the original analysis are reported.

The WG1728076-4/-5 MS/MSD RPDs, performed on L2269855-03, are outside the acceptance criteria for perfluorooctanoic acid (pfoa) (31%) and perfluorotetradecanoic acid (pfta) (34%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative

Date: 01/13/23

Serial_No:01132317:49

ORGANICS

SEMIVOLATILES

Serial_No:01132317:49

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-01 R
Client ID: 22L0503-01
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 01/06/23 18:11
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 12/28/22 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	7.92		ng/l	5.76	0.921	1
Perfluoropentanoic Acid (PFPeA)	19.1		ng/l	2.88	0.770	1
Perfluorobutanesulfonic Acid (PFBS)	3.67		ng/l	1.44	0.482	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.76	1.50	1
Perfluorohexanoic Acid (PFHxA)	14.3		ng/l	1.44	0.424	1
Perfluoropentanesulfonic Acid (PFPeS)	2.66		ng/l	1.44	0.252	1
Perfluoroheptanoic Acid (PFHpA)	10.2		ng/l	1.44	0.288	1
Perfluorohexanesulfonic Acid (PFHxS)	8.42		ng/l	1.44	0.345	1
Perfluorooctanoic Acid (PFOA)	49.9		ng/l	1.44	0.626	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.76	1.94	1
Perfluoroheptanesulfonic Acid (PFHpS)	4.10		ng/l	1.44	0.388	1
Perfluorononanoic Acid (PFNA)	9.43		ng/l	1.44	0.453	1
Perfluorooctanesulfonic Acid (PFOS)	415		ng/l	1.44	0.655	1
Perfluorodecanoic Acid (PFDA)	10.1		ng/l	1.44	0.583	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.76	2.24	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.44	0.446	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.44	0.784	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.44	0.626	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.44	0.331	1
Perfluorooctanesulfonamide (PFOSA)	7.92	F	ng/l	1.44	0.388	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	4.46		ng/l	1.44	0.777	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.44	0.662	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.44	0.540	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.44	0.381	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.76	0.806	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.76	0.907	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.44	0.547	1

Serial_No:011323

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-01 R
Client ID: 22L0503-01
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.76	1.19	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.76	1.19	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.44	0.626	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.44	0.662	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	14.4	3.38	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	14.4	1.76	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.88	0.410	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.88	0.381	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.88	0.317	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.88	1.70	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.20	2.37	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	36.0	8.42	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	36.0	5.68	1

Serial_No:01132317:49

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-01 R
Client ID: 22L0503-01
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	81		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	92		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	86		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	**186**	Q	20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	89		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	91		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	78		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	78		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	103		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	62		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	53		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	44		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	83		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	36		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	42		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	38		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	45		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	44		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	36		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	90		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	29		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	30		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	43		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	43		20-150

Serial_No:011323

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-02 R
Client ID: 22L0503-02
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 01/06/23 18:24
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 12/28/22 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	6.95		ng/l	6.24	0.999	1
Perfluoropentanoic Acid (PFPeA)	9.83		ng/l	3.12	0.835	1
Perfluorobutanesulfonic Acid (PFBS)	2.03		ng/l	1.56	0.523	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.24	1.63	1
Perfluorohexanoic Acid (PFHxA)	7.34		ng/l	1.56	0.460	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.56	0.273	1
Perfluoroheptanoic Acid (PFHpA)	2.18		ng/l	1.56	0.312	1
Perfluorohexanesulfonic Acid (PFHxS)	1.80		ng/l	1.56	0.375	1
Perfluorooctanoic Acid (PFOA)	9.99		ng/l	1.56	0.679	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.24	2.11	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.56	0.421	1
Perfluorononanoic Acid (PFNA)	1.09	J	ng/l	1.56	0.492	1
Perfluorooctanesulfonic Acid (PFOS)	42.1		ng/l	1.56	0.710	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.56	0.632	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.24	2.43	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.56	0.484	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.56	0.851	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.56	0.679	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.56	0.359	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.56	0.421	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.56	0.843	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.56	0.718	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.56	0.585	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.56	0.414	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.24	0.874	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.24	0.983	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.56	0.593	1

Serial_No:01132317:49

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-02 R
Client ID: 22L0503-02
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.24	1.29	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.24	1.29	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.56	0.679	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.56	0.718	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.6	3.67	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.6	1.91	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.12	0.445	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.12	0.414	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.12	0.343	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.12	1.84	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.80	2.58	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	39.0	9.13	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	39.0	6.16	1

Serial_No:011323

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-02 R
Client ID: 22L0503-02
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	73		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	93		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	96		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	**173**	Q	20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	88		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	91		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	86		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	89		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	94		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	68		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	63		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	67		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	81		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	56		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	67		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	48		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	55		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	67		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	74		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	92		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	53		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	55		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	70		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	73		20-150

Serial_No:01132317:49

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-03 R
Client ID: 22L0503-03
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 01/05/23 14:25
Analyst: PNB

Extraction Method: EPA 1633
Extraction Date: 12/28/22 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.98	J	ng/l	5.81	0.929	1
Perfluoropentanoic Acid (PFPeA)	1.81	J	ng/l	2.90	0.777	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.45	0.486	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.81	1.52	1
Perfluorohexanoic Acid (PFHxA)	2.40		ng/l	1.45	0.428	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.45	0.254	1
Perfluoroheptanoic Acid (PFHpA)	0.508	J	ng/l	1.45	0.290	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.45	0.348	1
Perfluorooctanoic Acid (PFOA)	0.798	J	ng/l	1.45	0.632	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.81	1.96	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.45	0.392	1
Perfluorononanoic Acid (PFNA)	2.47		ng/l	1.45	0.457	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.45	0.660	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.45	0.588	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.81	2.26	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.45	0.450	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.45	0.791	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.45	0.632	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.45	0.334	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.45	0.392	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.45	0.784	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.45	0.668	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.45	0.544	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.45	0.385	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.81	0.813	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.81	0.915	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.45	0.552	1

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-03 R
Client ID: 22L0503-03
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.81	1.20	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.81	1.20	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.45	0.632	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.45	0.668	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	14.5	3.41	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	14.5	1.78	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.90	0.414	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.90	0.385	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.90	0.319	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.90	1.71	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.26	2.40	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	36.3	8.49	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	36.3	5.73	1

Serial_No:01132317:49

Project Name: 22L0503 **Lab Number:** L2269855

Project Number: Not Specified **Report Date:** 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-03 R Date Collected: 12/01/22 09:30

Client ID: 22L0503-03 Date Received: 12/13/22

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	64		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	105		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	94		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	**225**	Q	20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	89		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	88		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	91		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	88		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	123		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	72		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	78		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	86		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	**204**	Q	20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	102		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	94		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	71		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	100		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	84		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	72		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	91		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	60		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	70		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	69		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	66		20-150

Serial_No:011323

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-04 R
Client ID: 22L0503-04
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 01/05/23 15:03
Analyst: PNB

Extraction Method: EPA 1633
Extraction Date: 12/28/22 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	3.37	J	ng/l	5.86	0.938	1
Perfluoropentanoic Acid (PFPeA)	1.90	J	ng/l	2.93	0.784	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.46	0.491	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.86	1.53	1
Perfluorohexanoic Acid (PFHxA)	1.32	J	ng/l	1.46	0.432	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.46	0.256	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.46	0.293	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.46	0.352	1
Perfluorooctanoic Acid (PFOA)	0.806	J	ng/l	1.46	0.637	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.86	1.98	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.46	0.396	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.46	0.461	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.46	0.666	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.46	0.593	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.86	2.28	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.46	0.454	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.46	0.798	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.46	0.637	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.46	0.337	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.46	0.396	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.46	0.791	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.46	0.674	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.46	0.549	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.46	0.388	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.86	0.820	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.86	0.923	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.46	0.557	1

Serial_No:01132317:49

Project Name: 22L0503 **Lab Number:** L2269855

Project Number: Not Specified **Report Date:** 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-04 R Date Collected: 12/01/22 09:30

Client ID: 22L0503-04 Date Received: 12/13/22

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.86	1.21	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.86	1.21	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.46	0.637	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.46	0.674	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	14.6	3.44	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	14.6	1.79	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.93	0.417	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.93	0.388	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.93	0.322	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.93	1.73	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.32	2.42	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	36.6	8.57	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	36.6	5.78	1

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-04 R
Client ID: 22L0503-04
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	81		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	97		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	97		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	**232**	Q	20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	97		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	92		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	90		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	87		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	122		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	83		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	76		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	92		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	144		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	76		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	96		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	57		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	71		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	86		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	96		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	84		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	53		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	64		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	60		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	57		20-150

Serial_No:01132317:49

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-05 R
Client ID: 22L0503-05
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 01/05/23 15:16
Analyst: PNB

Extraction Method: EPA 1633
Extraction Date: 12/28/22 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.36	1.02	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.18	0.851	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.59	0.533	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.36	1.66	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.59	0.469	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.59	0.278	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.59	0.318	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.59	0.382	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.59	0.692	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.36	2.15	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.59	0.429	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.59	0.501	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.59	0.724	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.59	0.644	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.36	2.47	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.59	0.493	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.59	0.867	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.59	0.692	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.59	0.366	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.59	0.429	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.59	0.859	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.59	0.731	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.59	0.596	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.59	0.421	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.36	0.890	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.36	1.00	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.59	0.604	1

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-05 R
Client ID: 22L0503-05
Sample Location: Not Specified

Date Collected: 12/01/22 09:30
Date Received: 12/13/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.36	1.31	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.36	1.31	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.59	0.692	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.59	0.731	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.9	3.74	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.9	1.95	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.18	0.453	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.18	0.421	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.18	0.350	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.18	1.88	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.95	2.62	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	39.8	9.30	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	39.8	6.27	1

Project Name: 22L0503 **Lab Number:** L2269855

Project Number: Not Specified **Report Date:** 01/13/23

SAMPLE RESULTS

Lab ID: L2269855-05 R Date Collected: 12/01/22 09:30

Client ID: 22L0503-05 Date Received: 12/13/22

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	96		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	105		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	103		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	102		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	103		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	103		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	94		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	96		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	101		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	75		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	86		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	92		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	105		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	69		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	106		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	68		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	82		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	92		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	78		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	96		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	54		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	63		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	61		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	64		20-150

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 01/04/23 18:43
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 12/28/22 14:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-05 Batch: WG1728076-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.96	1.11
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.48	0.930
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.74	0.583
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.96	1.82
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.74	0.513
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.74	0.304
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.74	0.348
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.74	0.417
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.74	0.756
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.96	2.35
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.74	0.470
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.74	0.548
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.74	0.791
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.74	0.704
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.96	2.70
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.74	0.539
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.74	0.948
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.74	0.756
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.74	0.400
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.74	0.470
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.74	0.939
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.74	0.800
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.74	0.652
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.74	0.461
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.96	0.974
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.96	1.10
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.74	0.661

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 01/04/23 18:43
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 12/28/22 14:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-05 Batch: WG1728076-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.96	1.43
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.96	1.43
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.74	0.756
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.74	0.800
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	17.4	4.09
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	17.4	2.13
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.48	0.496
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.48	0.461
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.48	0.383
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.48	2.05
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.70	2.87
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	43.5	10.2
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	43.5	6.86

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 01/04/23 18:43
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 12/28/22 14:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-05 Batch: WG1728076-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	91		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	92		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	94		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	103		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	79		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	92		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	81		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	73		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	86		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	71		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	95		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	81		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	93		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	94		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	84		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	105		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	111		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	81		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	94		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	97		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	92		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	95		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	106		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	94		20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1728076-2								
Perfluorobutanoic Acid (PFBA)	106		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	112		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	87		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	141		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	108		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	109		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	148		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	112		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	105		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	123		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	144		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	138		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	132		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	130		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	92		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	148		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	92		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	92		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	155	Q	-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	105		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	70		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	120		-		40-150	-		30

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Lab Control Sample Analysis
Batch Quality Control

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1728076-2								
Perfluorotridecanoic Acid (PFTrDA)	118		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	95		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	90		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	91		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	165	Q	-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	102		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	102		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	102		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	100		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	93		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	95		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	130		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	119		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	94		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	90		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	114		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	88		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	59		-		40-150	-		30

Table of Contents

Lab Control Sample Analysis
Batch Quality Control

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1728076-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	87				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	81				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	96				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	67				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	108				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	77				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	93				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	108				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	91				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	78				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	90				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	81				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	98				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	104				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	88				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	106				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	120				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	82				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	106				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	103				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	89				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	82				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	105				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	100				20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1728076-3								
Perfluorobutanoic Acid (PFBA)	108		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	94		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	94		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	141		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	101		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	105		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	113		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	102		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	116		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	105		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	136		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	128		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	127		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	122		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	127		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	130		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	116		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	103		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	133		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	110		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	115		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	111		-		40-150	-		30

Table of Contents

Lab Control Sample Analysis
Batch Quality Control

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1728076-3								
Perfluorotridecanoic Acid (PFTrDA)	117		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	88		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	114		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	118		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	139		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	116		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	117		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	99		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	93		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	88		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	94		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	92		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	86		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	110		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	89		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	95		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	113		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	85		-		40-150	-		30

Table of Contents

Lab Control Sample Analysis

Batch Quality Control

Project Name: 22L0503

Project Number: Not Specified

Lab Number: L2269855

Report Date: 01/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1728076-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	90				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	106				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	78				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	69				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	84				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	85				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	87				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	86				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	87				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	80				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	76				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	93				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	86				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	66				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	100				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	84				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	88				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	91				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	110				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	81				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	76				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	72				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	80				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	78				20-150

Matrix Spike Analysis

Batch Quality Control

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1728076-4 WG1728076-5 QC Sample: L2269855-03 Client ID: 22L0503-03												
Perfluorobutanoic Acid (PFBA)	2.98J	73	76.4	101		83.8	104		40-150	9		30
Perfluoropentanoic Acid (PFPeA)	1.81J	36.5	38.8	101		39.1	96		40-150	1		30
Perfluorobutanesulfonic Acid (PFBS)	ND	16.2	16.1	100		19.4	113		40-150	19		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	68.4	60.8	89		76.3	105		40-150	23		30
Perfluorohexanoic Acid (PFHxA)	2.40	18.2	19.7	95		22.9	106		40-150	15		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	17.2	16.6	97		19.3	106		40-150	15		30
Perfluoroheptanoic Acid (PFHpA)	0.508J	18.2	16.6	88		19.0	96		40-150	13		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	16.7	15.5	93		17.0	96		40-150	9		30
Perfluorooctanoic Acid (PFOA)	0.798J	18.2	15.5	81		21.2	105		40-150	31	Q	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	69.3	69.0	100		74.1	101		40-150	7		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	17.4	20.6	118		22.0	119		40-150	7		30
Perfluorononanoic Acid (PFNA)	2.47	18.2	19.0	91		21.7	99		40-150	13		30
Perfluorooctanesulfonic Acid (PFOS)	ND	16.9	16.8	99		21.1	117		40-150	23		30
Perfluorodecanoic Acid (PFDA)	ND	18.2	20.9	115		25.2	130		40-150	19		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	70	70.0	100		79.1	106		40-150	12		30
Perfluorononanesulfonic Acid (PFNS)	ND	17.6	17.1	97		17.6	94		40-150	3		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	18.2	17.3	95		16.9	87		40-150	2		30
Perfluoroundecanoic Acid (PFUnA)	ND	18.2	21.5	118		18.7	97		40-150	14		30
Perfluorodecanesulfonic Acid (PFDS)	ND	17.6	15.8	90		16.6	89		40-150	5		30
Perfluorooctanesulfonamide (PFOSA)	ND	18.2	18.3	100		21.2	110		40-150	15		30
thyl fluorooctanesulfonamidoacetic d (NEtFOSAA)	ND	18.2	16.5	90		18.0	93		40-150	9		30
fluorododecanoic Acid (PFDoA)	ND	18.2	17.1	94		19.3	100		40-150	12		30

Table of Contents

Matrix Spike Analysis

Batch Quality Control

Project Name: 22L0503

Project Number: Not Specified

Lab Number: L2269855

Report Date: 01/13/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1728076-4 WG1728076-5 QC Sample: L2269855-03 Client ID: 22L0503-03												
Perfluorotridecanoic Acid (PFTrDA)	ND	18.2	18.5	101		20.0	103		40-150	8		30
Perfluorotetradecanoic Acid (PFTeDA)	ND	18.2	13.7	75		19.3	100		40-150	34	Q	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	73	73.6	101		77.5	100		40-150	5		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	69	78.4	114		78.3	107		40-150	0		30
Perfluorododecanesulfonic Acid (PFDoS)	ND	17.7	15.6	88		15.8	84		40-150	1		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	68.2	66.8	98		69.3	96		40-150	4		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	69	59.5	86		56.8	78		40-150	5		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	18.2	16.3	89		19.7	102		40-150	19		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	18.2	16.0	88		16.3	84		40-150	2		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	182	173	95		191	99		40-150	10		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	182	193	106		176	91		40-150	9		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	36.5	30.9	85		35.5	92		40-150	14		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	36.5	32.5	89		36.2	94		40-150	11		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	32.5	31.7	98		35.7	104		40-150	12		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	36.5	30.4	83		29.0	75		40-150	5		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	91.2	87.4	96		99.8	103		40-150	13		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	456	374	82		432	89		40-150	14		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	456	304	67		341	70		40-150	11		30

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Matrix Spike Analysis

Batch Quality Control

Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1728076-4 WG1728076-5 QC Sample: L2269855-03 Client ID: 22L0503-03												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	**151**	Q	135		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	**222**	Q	**196**	Q	20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	119		106		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	70		68		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	87		78		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	61		66		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	66		64		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	86		84		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	68		67		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	91		85		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	63		60		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	76		83		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	99		83		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	74		83		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	81		66		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	88		89		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	82		89		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	78		69		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	77		68		20-150
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	61		75		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	92		95		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	89		87		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	84		82		20-150

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Matrix Spike Analysis

Batch Quality Control

Project Name: 22L0503

Project Number: Not Specified

Lab Number: L2269855

Report Date: 01/13/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1728076-4 WG1728076-5 QC Sample: L2269855-03 Client ID: 22L0503-03												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	72		82		20-150

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Project Name: 22L0503
Project Number: Not Specified

Lab Number: L2269855
Report Date: 01/13/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2269855-01A	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-01B	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-01C	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-02A	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-02B	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-02C	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-03A	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-03A1	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-03A2	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-03B	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-03B1	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-03B2	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-03C	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-03C1	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-03C2	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-04A	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-04B	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-04C	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-05A	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-05B	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2269855-05C	Plastic 500ml unpreserved	A	NA		3.7	Y	Absent		A2-1633-DRAFT(28)

*Values in parentheses indicate holding time in days

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Serial_No:011323

Project Name: 22L0503
Project Number:

Lab Number: L2269855
Report Date: 01/13/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: 22L0503
Project Number:

Lab Number: L2269855
Report Date: 01/13/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name: 22L0503 **Lab Number:** L2269855
Project Number: Not Specified **Report Date:** 01/13/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	22L0503	**Lab Number:**	L2269855
Project Number:	Not Specified	**Report Date:**	01/13/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name: 22L0503 **Lab Number:** L2269855
Project Number: Not Specified **Report Date:** 01/13/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name: 22L0503 **Lab Number:** L2269855

Project Number: Not Specified **Report Date:** 01/13/23

REFERENCES

144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

12/13/22

SUBCONTRACT CHAIN OF CUSTODY

L2269855

Pace New England

22L0503

SENDING LABORATORY:	RECEIVING LABORATORY:
Pace New England	Alpha Analytical Laboratory
39 Spruce Street	8 Walkup Drive
East Longmeadow, MA 01028	Westborough, MA 01581
Phone: 413.525.2332	Phone :(508) 898-9220
Fax: 413.525.6405	Fax: (508) 898-9193
Project Manager: Raymond J. McCarthy	

Analysis	Due		Expires	Comments
-01				
Sample ID: 22L0503-01	**Water**	**Sampled:**	**12/01/22 09:30**	**ASP CAT B LIKE**
S-PFAS	12/19/22 15:30		12/15/22 09:30	Method 1633, Cat B Report to MDL
Containers Supplied:				
500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv				
-02				
Sample ID: 22L0503-02	**Water**	**Sampled:**	**12/01/22 09:30**	**ASP CAT B LIKE**
S-PFAS	12/19/22 15:30		12/15/22 09:30	Method 1633, Cat B Report to MDL
Containers Supplied:				
500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv				
-03				
Sample ID: 22L0503-03	**Water**	**Sampled:**	**12/01/22 09:30**	**ASP CAT B LIKE MS/MSD**
S-PFAS	12/19/22 15:30		12/15/22 09:30	MS/MSD Method 1633, Cat B Report to MDL
Containers Supplied:				
500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv				
-04				
Sample ID: 22L0503-04	**Water**	**Sampled:**	**12/01/22 09:30**	**ASP CAT B LIKE**
S-PFAS	12/19/22 15:30		12/15/22 09:30	Method 1633, Cat B Report to MDL
Containers Supplied:				
500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv				
-05				
Sample ID: 22L0503-05	**Water**	**Sampled:**	**12/01/22 09:30**	**ASP CAT B LIKE**
S-PFAS	12/19/22 15:30		12/15/22 09:30	Method 1633, Cat B Report to MDL
Containers Supplied:				
500 mL plastic Unpreserv 500 mL plastic Unpreserv 500 mL plastic Unpreserv				

0956

Released By	Date	Received By	Date
	12-13-22	AAL	12/13/22 9:56
		MCM	12-13-22 1515
MCM	12/13/22 1700	AAL	12/13/22 1700

Serial_No:01132317:49

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January 4, 2023

Stephanie Fitzgerald
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Brewrton, NY
Client Job Number:
Project Number: 734112
Laboratory Work Order Number: 22L2164

Enclosed are results of analyses for samples as received by the laboratory on December 15, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Stephanie Fitzgerald

REPORT DATE: 1/4/2023

PURCHASE ORDER NUMBER: 145616

PROJECT NUMBER: 734112

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22L2164

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Brewrton, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-10	22L2164-01	Ground Water		RSK175	
				SW-846 8260D	
Trip Blank	22L2164-02	Ground Water		SW-846 8260D	

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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.

SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Methyl Acetate
B326438-BS1, B326438-BSD1

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:

Bromomethane
22L2164-01[MW-10], 22L2164-02[Trip Blank], B326438-BLK1, B326438-BS1, B326438-BSD1, S081044-CCV1

Naphthalene
22L2164-01[MW-10], 22L2164-02[Trip Blank], B326438-BLK1, B326438-BS1, B326438-BSD1, S081044-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:

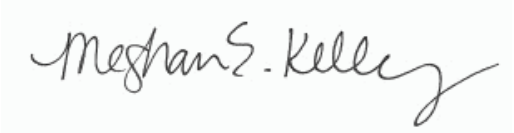
2-Butanone (MEK)
B326438-BS1, B326438-BSD1, S081044-CCV1

2-Hexanone (MBK)
B326438-BS1, B326438-BSD1, S081044-CCV1

4-Methyl-2-pentanone (MIBK)
B326438-BS1, B326438-BSD1, S081044-CCV1

Methyl Acetate
B326438-BS1, B326438-BSD1, S081044-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

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Project Location: Brewrton, NY | Sample Description: | Work Order: 22L2164

Date Received: 12/15/2022

Field Sample #: MW-10 | Sampled: 12/14/2022 13:20

Sample ID: 22L2164-01

Sample Matrix: Ground 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	12/21/22	12/21/22 15:13	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Bromomethane	ND	2.0	1.5	µg/L	1	V-05	SW-846 8260D	12/21/22	12/21/22 15:13	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF

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Project Location: Brewrton, NY | Sample Description: | Work Order: 22L2164

Date Received: 12/15/2022

Field Sample #: MW-10 | Sampled: 12/14/2022 13:20

Sample ID: 22L2164-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Methyl tert-Butyl Ether (MTBE)	1.0	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/21/22	12/21/22 15:13	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		12/21/22 15:13
Toluene-d8	101	70-130		12/21/22 15:13
4-Bromofluorobenzene	100	70-130		12/21/22 15:13

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Project Location: Brewrton, NY | Sample Description: | Work Order: 22L2164

Date Received: 12/15/2022

Field Sample #: MW-10 | Sampled: 12/14/2022 13:20

Sample ID: 22L2164-01

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.035	0.014	0.0026	mg/L	1		RSK175	12/28/22	12/28/22 11:29	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/28/22	12/28/22 11:29	TPH
Methane	5.0	0.0070	0.0012	mg/L	1		RSK175	12/28/22	12/28/22 11:29	TPH

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Project Location: Brewrton, NY | Sample Description: | Work Order: 22L2164

Date Received: 12/15/2022

Field Sample #: Trip Blank | Sampled: 12/14/2022 00:00

Sample ID: 22L2164-02

Sample Matrix: Ground 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	12/21/22	12/21/22 13:55	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Bromomethane	ND	2.0	1.5	µg/L	1	V-05	SW-846 8260D	12/21/22	12/21/22 13:55	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Chloroform	0.91	2.0	0.17	µg/L	1	J	SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF

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Project Location: Brewrton, NY | Sample Description: | Work Order: 22L2164

Date Received: 12/15/2022

Field Sample #: Trip Blank | Sampled: 12/14/2022 00:00

Sample ID: 22L2164-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/21/22	12/21/22 13:55	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		12/21/22 13:55
Toluene-d8	102	70-130		12/21/22 13:55
4-Bromofluorobenzene	101	70-130		12/21/22 13:55

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Sample Extraction Data

Prep Method: RSK175 **Analytical Method: RSK175**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22L2164-01 [MW-10]	B327396	1.00	1.00	12/28/22

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22L2164-01 [MW-10]	B326438	5	5.00	12/21/22
22L2164-02 [Trip Blank]	B326438	5	5.00	12/21/22

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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 B326438 - SW-846 5030B										
Blank (B326438-BLK1)				Prepared & Analyzed: 12/21/22						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	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							V-05
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	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							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	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							
trans-1,4-Dichloro-2-butene	ND	2.0	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							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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 B326438 - SW-846 5030B											
Blank (B326438-BLK1)				Prepared & Analyzed: 12/21/22							
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								
Naphthalene	ND	2.0	µg/L							V-05	
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	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								
1,3,5-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								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	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								
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102	70-130				
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130				
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		102	70-130				
LCS (B326438-BS1)				Prepared & Analyzed: 12/21/22							
Acetone	125	50	µg/L	100		125	70-160				†
Acrylonitrile	10.5	5.0	µg/L	10.0		105	70-130				
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.0		100	70-130				
Benzene	10.2	1.0	µg/L	10.0		102	70-130				
Bromobenzene	10.2	1.0	µg/L	10.0		102	70-130				
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130				
Bromodichloromethane	10.8	0.50	µg/L	10.0		108	70-130				
Bromoform	10.5	1.0	µg/L	10.0		105	70-130				
Bromomethane	7.21	2.0	µg/L	10.0		72.1	40-160			V-05	†
2-Butanone (MEK)	124	20	µg/L	100		124	40-160			V-20	†
tert-Butyl Alcohol (TBA)	106	20	µg/L	100		106	40-160				†
n-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130				
sec-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130				
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	µg/L	10.0		109	70-130				
Carbon Disulfide	107	5.0	µg/L	100		107	70-130				
Carbon Tetrachloride	10.9	5.0	µg/L	10.0		109	70-130				
Chlorobenzene	10.9	1.0	µg/L	10.0		109	70-130				
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109	70-130				
Chloroethane	10.9	2.0	µg/L	10.0		109	70-130				
Chloroform	10.2	2.0	µg/L	10.0		102	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 B326438 - SW-846 5030B											
LCS (B326438-BS1)				Prepared & Analyzed: 12/21/22							
Chloromethane	11.3	2.0	µg/L	10.0		113	40-160				†
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130				
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.28	5.0	µg/L	10.0		92.8	70-130				
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130				
Dibromomethane	11.4	1.0	µg/L	10.0		114	70-130				
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130				
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130				
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130				
trans-1,4-Dichloro-2-butene	8.43	2.0	µg/L	10.0		84.3	70-130				
Dichlorodifluoromethane (Freon 12)	11.9	2.0	µg/L	10.0		119	40-160				†
1,1-Dichloroethane	11.0	1.0	µg/L	10.0		110	70-130				
1,2-Dichloroethane	11.7	1.0	µg/L	10.0		117	70-130				
1,1-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130				
cis-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130				
trans-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130				
1,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	70-130				
1,3-Dichloropropane	11.1	0.50	µg/L	10.0		111	70-130				
2,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	40-130				†
1,1-Dichloropropene	10.8	2.0	µg/L	10.0		108	70-130				
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130				
trans-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130				
Diethyl Ether	10.8	2.0	µg/L	10.0		108	70-130				
Diisopropyl Ether (DIPE)	12.1	0.50	µg/L	10.0		121	70-130				
1,4-Dioxane	98.2	50	µg/L	100		98.2	40-130				†
Ethylbenzene	10.9	1.0	µg/L	10.0		109	70-130				
Hexachlorobutadiene	9.86	0.60	µg/L	10.0		98.6	70-130				
2-Hexanone (MBK)	127	10	µg/L	100		127	70-160			V-20	†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130				
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130				
Methyl Acetate	13.3	1.0	µg/L	10.0		**133**	* 70-130			L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	9.99	1.0	µg/L	10.0		99.9	70-130				
Methyl Cyclohexane	11.0	1.0	µg/L	10.0		110	70-130				
Methylene Chloride	11.8	5.0	µg/L	10.0		118	70-130				
4-Methyl-2-pentanone (MIBK)	127	10	µg/L	100		127	70-160			V-20	†
Naphthalene	8.19	2.0	µg/L	10.0		81.9	40-130			V-05	†
n-Propylbenzene	10.7	1.0	µg/L	10.0		107	70-130				
Styrene	10.5	1.0	µg/L	10.0		105	70-130				
1,1,1,2-Tetrachloroethane	10.7	1.0	µg/L	10.0		107	70-130				
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130				
Tetrachloroethylene	11.9	1.0	µg/L	10.0		119	70-130				
Tetrahydrofuran	11.7	10	µg/L	10.0		117	70-130				
Toluene	11.1	1.0	µg/L	10.0		111	70-130				
1,2,3-Trichlorobenzene	9.03	5.0	µg/L	10.0		90.3	70-130				
1,2,4-Trichlorobenzene	9.94	1.0	µg/L	10.0		99.4	70-130				
1,3,5-Trichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130				
1,1,1-Trichloroethane	11.1	1.0	µg/L	10.0		111	70-130				
1,1,2-Trichloroethane	11.3	1.0	µg/L	10.0		113	70-130				
Trichloroethylene	11.8	1.0	µg/L	10.0		118	70-130				
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0		110	70-130				
1,2,3-Trichloropropane	10.4	2.0	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 B326438 - SW-846 5030B											
LCS (B326438-BS1)				Prepared & Analyzed: 12/21/22							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.3	1.0	µg/L	10.0		113	70-130				
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	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	22.0	2.0	µg/L	20.0		110	70-130				
o-Xylene	10.8	1.0	µg/L	10.0		108	70-130				
Surrogate: 1,2-Dichloroethane-d4	*26.2*		µg/L	25.0		105	70-130				
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		102	70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130				
LCS Dup (B326438-BSD1)				Prepared & Analyzed: 12/21/22							
Acetone	126	50	µg/L	100		126	70-160	0.606	25		†
Acrylonitrile	10.9	5.0	µg/L	10.0		109	70-130	3.37	25		
tert-Amyl Methyl Ether (TAME)	10.1	0.50	µg/L	10.0		101	70-130	0.694	25		
Benzene	10.2	1.0	µg/L	10.0		102	70-130	0.489	25		
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130	3.36	25		
Bromochloromethane	11.5	1.0	µg/L	10.0		115	70-130	0.609	25		
Bromodichloromethane	11.0	0.50	µg/L	10.0		110	70-130	2.48	25		
Bromoform	10.7	1.0	µg/L	10.0		107	70-130	1.69	25		
Bromomethane	7.96	2.0	µg/L	10.0		79.6	40-160	9.89	25	V-05	†
2-Butanone (MEK)	124	20	µg/L	100		124	40-160	0.00	25	V-20	†
tert-Butyl Alcohol (TBA)	107	20	µg/L	100		107	40-160	0.0845	25		†
n-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	0.193	25		
sec-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130	0.393	25		
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	0.670	25		
tert-Butyl Ethyl Ether (TBEE)	10.8	0.50	µg/L	10.0		108	70-130	0.646	25		
Carbon Disulfide	109	5.0	µg/L	100		109	70-130	2.15	25		
Carbon Tetrachloride	11.0	5.0	µg/L	10.0		110	70-130	0.548	25		
Chlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	3.08	25		
Chlorodibromomethane	10.8	0.50	µg/L	10.0		108	70-130	1.29	25		
Chloroethane	11.0	2.0	µg/L	10.0		110	70-130	1.64	25		
Chloroform	10.5	2.0	µg/L	10.0		105	70-130	2.60	25		
Chloromethane	11.5	2.0	µg/L	10.0		115	40-160	1.67	25		†
2-Chlorotoluene	10.7	1.0	µg/L	10.0		107	70-130	2.47	25		
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130	1.65	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.87	5.0	µg/L	10.0		88.7	70-130	4.52	25		
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.0		114	70-130	1.13	25		
Dibromomethane	11.7	1.0	µg/L	10.0		117	70-130	2.33	25		
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	0.480	25		
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	2.12	25		
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	1.82	25		
trans-1,4-Dichloro-2-butene	8.34	2.0	µg/L	10.0		83.4	70-130	1.07	25		
Dichlorodifluoromethane (Freon 12)	12.2	2.0	µg/L	10.0		122	40-160	2.91	25		†
1,1-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130	2.86	25		
1,2-Dichloroethane	11.8	1.0	µg/L	10.0		118	70-130	0.768	25		
1,1-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130	3.79	25		
cis-1,2-Dichloroethylene	11.5	1.0	µg/L	10.0		115	70-130	2.01	25		
trans-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130	2.53	25		
1,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	70-130	0.435	25		
1,3-Dichloropropane	11.2	0.50	µg/L	10.0		112	70-130	0.805	25		
2,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	40-130	1.94	25		†
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107	70-130	0.839	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 B326438 - SW-846 5030B												
LCS Dup (B326438-BSD1)				Prepared & Analyzed: 12/21/22								
cis-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106		70-130	0.939	25		
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106		70-130	1.69	25		
Diethyl Ether	10.7	2.0	µg/L	10.0		107		70-130	0.373	25		
Diisopropyl Ether (DIPE)	12.2	0.50	µg/L	10.0		122		70-130	0.742	25		
1,4-Dioxane	96.3	50	µg/L	100		96.3		40-130	2.03	50		† ‡
Ethylbenzene	11.2	1.0	µg/L	10.0		112		70-130	2.08	25		
Hexachlorobutadiene	9.95	0.60	µg/L	10.0		99.5		70-130	0.909	25		
2-Hexanone (MBK)	125	10	µg/L	100		125		70-160	1.62	25	V-20	†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106		70-130	2.00	25		
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102		70-130	0.489	25		
Methyl Acetate	13.6	1.0	µg/L	10.0		**136**	*	70-130	2.30	25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101		70-130	0.897	25		
Methyl Cyclohexane	11.0	1.0	µg/L	10.0		110		70-130	0.546	25		
Methylene Chloride	12.2	5.0	µg/L	10.0		122		70-130	2.92	25		
4-Methyl-2-pentanone (MIBK)	126	10	µg/L	100		126		70-160	0.883	25	V-20	†
Naphthalene	8.04	2.0	µg/L	10.0		80.4		40-130	1.85	25	V-05	†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108		70-130	1.39	25		
Styrene	10.7	1.0	µg/L	10.0		107		70-130	1.32	25		
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106		70-130	0.0939	25		
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106		70-130	2.10	25		
Tetrachloroethylene	11.8	1.0	µg/L	10.0		118		70-130	1.01	25		
Tetrahydrofuran	11.5	10	µg/L	10.0		115		70-130	1.47	25		
Toluene	11.1	1.0	µg/L	10.0		111		70-130	0.270	25		
1,2,3-Trichlorobenzene	9.13	5.0	µg/L	10.0		91.3		70-130	1.10	25		
1,2,4-Trichlorobenzene	9.74	1.0	µg/L	10.0		97.4		70-130	2.03	25		
1,3,5-Trichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130	0.488	25		
1,1,1-Trichloroethane	11.2	1.0	µg/L	10.0		112		70-130	0.810	25		
1,1,2-Trichloroethane	11.3	1.0	µg/L	10.0		113		70-130	0.0885	25		
Trichloroethylene	11.9	1.0	µg/L	10.0		119		70-130	0.505	25		
Trichlorofluoromethane (Freon 11)	11.6	2.0	µg/L	10.0		116		70-130	5.41	25		
1,2,3-Trichloropropane	10.7	2.0	µg/L	10.0		107		70-130	3.32	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.5	1.0	µg/L	10.0		115		70-130	1.49	25		
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102		70-130	1.07	25		
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107		70-130	1.60	25		
Vinyl Chloride	11.9	2.0	µg/L	10.0		119		40-160	3.06	25		†
m+p Xylene	22.3	2.0	µg/L	20.0		112		70-130	1.26	25		
o-Xylene	11.0	1.0	µg/L	10.0		110		70-130	2.20	25		
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102		70-130				
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		102		70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103		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
Batch B327396 - RSK175										
Blank (B327396-BLK1)				Prepared & Analyzed: 12/28/22						
Ethane	ND	0.014	mg/L							
Ethene	ND	0.017	mg/L							
Methane	ND	0.0070	mg/L							
LCS (B327396-BS1)				Prepared & Analyzed: 12/28/22						
Ethane	0.27		mg/L	0.332		80.4	70.1-110			
Ethene	0.25		mg/L	0.309		79.9	67.5-110			
Methane	0.14		mg/L	0.177		79.4	70.9-110			
Duplicate (B327396-DUP1)		**Source: 22L2164-01**		Prepared & Analyzed: 12/28/22						
Ethane	0.0357	0.014	mg/L		0.0352			1.33	20	
Ethene	ND	0.017	mg/L		ND			NC	20	
Methane	5.09	0.0070	mg/L		5.03			1.10	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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
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
RSK175 in Water	
Ethane	VA,NY,ME
Ethene	VA,NY,ME
Methane	VA,NY,ME
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	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
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,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
trans-1,4-Dichloro-2-butene	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
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,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
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	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
1,3,5-Trichlorobenzene	ME
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
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

Pace Analytical

Phone: 612-607-6400 22L2164
Fax: 612-607-6344

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CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: Arcadis
Address: One Lincoln Center 110 West Fayette St. Syracuse
Phone: 315-992-0568
Project Name: Jacks Dry Cleaners
Project Location: Brewerton NY
Project Number: 30135043
Project Manager: Stefan Bagnato
Pace Analytical Quote Name/Number: Contract #: C100701, ID: 145616
Invoice Recipient: Bill NYS DEC
Sampled By: Daniel Meandro

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: stefan.bagnato@arcadis
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260 VOC	1254-1/3 Dissolved Cu	# of Containers	Preservation Code	Container Code
1	MW-10	12-14-22	1320		X	GW		X	X	2	H	V
2	TRIP BLANK	—	—		—	DI		X				

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
- ASP Cat B Deliverables
- Arcadis EQUIS 4-File EDDs

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	12-14-22/1400
Received by: (signature) 4.5	Date/Time: 12/15 0855
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☒ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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12/15/2022 at 9:58 am

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Delivered

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791314586865

FROM
Syracuse, NY US

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11/21/2022 12:52 PM

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
12/14/2022 5:15 PM

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WINDSOR LOCKS, CT
12/15/2022 8:17 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
12/15/2022 8:24 AM

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East Longmeadow, MA US

DELIVERED
12/15/2022 at 9:58 AM

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Doc# 277 Rev 6 July 2022

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Received By: Arnold S / LA — Date: 12/15/22 — Time: 955

How were the samples received? In Cooler: T — No Cooler: — — On Ice: T — No Ice: —

Direct From Sample: F — Ambient: — — Melted Ice: —

Were samples within Tempurature? Within 2-6°C: T — By Gun #: 5 — Actual Temp: 4.5

By Blank #: — — Actual Temp: —

Was Custody Seal In tact? N/A — Were Samples Tampered with? F

Was COC Relinquished ? T — Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T — Were samples received within holding time? T

Did COC include all pertinent Information? Client? T — Analysis? T — Sampler Name? T

Project? T — ID's? T — Collection Dates/Times? T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F — Who was notified?

Are there Rushes? F — Who was notified?

Are there Short Holds? F — Who was notified?

Samples are received within holding time? T — Is there enough Volume? T

Is there Headspace where applicable? N/A — MS/MSD? F

Proper Media/Containers Used? T — splitting samples require F

Were trip blanks receive T — On COC? F

Do All Samples Have the proper pH? N/A — Acid: F — Base:

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	~~6~~ 6	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

APPENDIX C

Data Usability Summary Reports

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
JACKS DRY CLEANERS, BREWERTON, NEW YORK

Client: Arcadis, Clifton Park, New York
SDG: 22L0331
Laboratory: Con-Test, East Longmeadow, Massachusetts
Site: Jacks Dry Cleaners, Brewerton, New York
Date: February 25, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	IW-29	22L0331-01	Water
1MS	IW-29MS	22L0331-01MS	Water
1MSD	IW-29MSD	22L0331-01MSD	Water
2	IW-25	22L0331-02	Water
3	IW-24	22L0331-03	Water
4	IW-19	22L0331-04	Water
5	MW-14BR	22L0331-05	Water
6	MW-11	22L0331-06	Water
7	IW-7	22L0331-07	Water
8	IW-11	22L0331-08	Water
9	IW-14	22L0331-09	Water
10	IW-17	22L0331-10	Water
10MS	IW-17MS	22L0331-10MS	Water
10MSD	IW-17MSD	22L0331-10MSD	Water
11	IW-3	22L0331-11	Water
12	MW-15	22L0331-12	Water
13	MW-15BR	22L0331-13	Water
14	IW-1	22L0331-14	Water
15	IW-2	22L0331-15	Water
16	MW-13	22L0331-16	Water
17	MW-9	22L0331-17	Water
18	MW-10BR	22L0331-18	Water
19	MW-5	22L0331-19	Water
20	MW-14	22L0331-20	Water
21	MW-17	22L0331-21	Water
22	MW-17BR	22L0331-22	Water
23	MW-16	22L0331-23	Water
24	MW-16BR	22L0331-24	Water
25	MW-1R	22L0331-25	Water
26	MW-7	22L0331-26	Water
27	MW-12	22L0331-27	Water
28	MW-2	22L0331-28	Water
29	DUP-112922-1	22L0331-29	Water
30	DUP-112922-2	22L0331-30	Water
31	TRIP BLANK	22L0331-31	Water

A Data Usability Summary Review was performed on the analytical data for thirty water samples and one aqueous trip blank sample collected on November 29 - December 1, 2022 by Arcadis at the Jacks Dry Cleaners site in Brewerton, New York. The samples were analyzed under Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions, and the Method for the Determination of Dissolved Gases in Water.

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260D
MEE	Method RSK 175

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D	Qualifier	Affected Samples
12/07/22 (0830)	1,2-Dichloroethane	20.7%	UJ	1-9, 11-18
	trans-1,2-Dichloroethene	21.5%	J/UJ	
	Naphthalene	20.8%	UJ	
12/07/22 (2118)	Naphthalene	24.7%	UJ	10, 19-31

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations of methylene chloride, 2-butanone, toluene or acetone (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Sample ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TRIP BLANK	Chloroform	0.92	U	28

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

MS/MSD Sample ID	Compound	MS %R/MSD %R/ RPD	Qualifier
1	Chloroethene	132%/OK/OK	None - Sample ND
	trans-1,4-Dichloro-2-butene	66.0%/60.1%/OK	UJ
	Dichlorodifluoromethane	132%/OK/OK	None - Sample ND
	Naphthalene	262%/OK/94.9	
10	trans-1,4-Dichloro-2-butene	56.5%/50.2%/OK	UJ
	2,2-Dichloropropane	58.8%/58.7%/OK	UJ
	Methyl Acetate	2500%/2710%/OK	J
	1,4-Dioxane	OK/69.9%/38.3	UJ

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	IW-25 ug/L	DUP-112922-1 ug/L	RPD	Qualifier
Benzene	20U	2.4	NC	None
1,1-Dichloroethylene	20U	2.0	NC	
cis-1,2-Dichloroethylene	1400	1300	7%	
trans-1,2-Dichloroethylene	13	12	8%	
Trichloroethylene	31	30	3%	
Vinyl Chloride	450	420	7%	

Compound	IW-17 ug/L	DUP-112922-2 ug/L	RPD	Qualifier
Acetone	9.6	9.4	2%	None
Benzene	1.7	1.8	6%	
2-Butanone	12	12	0%	
1,1-Dichloroethane	0.81	0.86	6%	
1,2-Dichloroethane	0.86	0.90	5%	
cis-1,2-Dichloroethylene	11	11	0%	
Diethyl Ether	0.75	0.81	8%	
Diisopropyl Ether	0.26	0.28	7%	
Methyl Acetate	2.0	1.8	11%	
MTBE	0.56	0.57	2%	
Toluene	0.33	0.30	10%	
Vinyl Chloride	11	11	0%	

Dissolved Gases (Methane, Ethane, Ethene)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than five times (5x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Sample ID	Compound	Conc. mg/L	Qualifier	Affected Samples
TRIP BLANK	Methane	0.013	U	12, 19, 21, 22, 23, 28

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

MS/MSD Sample ID	Compound	MS %R/MSD %R/ RPD	Qualifier
1	Methane	-592%/OK/OK	None - 4X Rule Applies
10	Methane	-186%/-687%/OK	None - 4X Rule Applies

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- Several samples were analyzed at a dilution due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was unacceptable for ethane in one field duplicate pair. These results were qualified as estimated (J).

Compound	IW-25 mg/L	DUP-112922-1 mg/L	RPD	Qualifier
Ethane	0.0049	0.090	179%	J
Ethene	0.064	0.072	12%	None
Methane	4.6	4.4	4%	

Compound	IW-17 mg/L	DUP-112922-2 mg/L	RPD	Qualifier
Ethane	0.16	0.17	6%	None
Ethene	0.12	0.13	8%	
Methane	13	12	8%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 2/27/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-29
Sampled: 11/29/2022 09:40

Sample ID: 22L0331-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.3	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
trans-1,4-Dichloro-2-butene	ND UJ	2.0	1.6	µg/L	1	~~MS-07A~~	SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2-Dichloroethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
cis-1,2-Dichloroethylene	1.1	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
trans-1,2-Dichloroethylene	ND UJ	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF

NW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-29 | Sampled: 11/29/2022 09:40

Sample ID: 22L0331-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~R-06, V-05~~	SW-846 8260D	12/7/22	12/7/22 11:43	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Toluene	0.27	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
Vinyl Chloride	0.36	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 11:43	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 11:43	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/7/22 11:43
Toluene-d8	100	70-130		12/7/22 11:43
4-Bromofluorobenzene	94.3	70-130		12/7/22 11:43

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: IW-25
Sampled: 11/29/2022 11:40
Sample ID: 22L0331-02
Sample Matrix: Ground 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	1000	41	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Acrylonitrile	ND	100	11	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
tert-Amyl Methyl Ether (TAME)	ND	10	2.9	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Benzene	ND	20	4.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Bromobenzene	ND	20	3.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Bromochloromethane	ND	20	6.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Bromodichloromethane	ND	10	3.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Bromoform	ND	20	7.7	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Bromomethane	ND	40	31	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
2-Butanone (MEK)	ND	400	32	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
tert-Butyl Alcohol (TBA)	ND	400	94	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
n-Butylbenzene	ND	20	3.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
sec-Butylbenzene	ND	20	2.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
tert-Butylbenzene	ND	20	2.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	10	3.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Carbon Disulfide	ND	100	29	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Carbon Tetrachloride	ND	100	3.3	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Chlorobenzene	ND	20	2.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Chlorodibromomethane	ND	10	4.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Chloroethane	ND	40	6.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Chloroform	ND	40	3.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Chloromethane	ND	40	10	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
2-Chlorotoluene	ND	20	2.3	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
4-Chlorotoluene	ND	20	2.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	16	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2 Dibromoethane (EDB)	ND	10	3.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Dibromomethane	ND	20	7.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2-Dichlorobenzene	ND	20	2.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,3-Dichlorobenzene	ND	20	2.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,4-Dichlorobenzene	ND	20	2.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
trans-1,4-Dichloro-2-butene	ND	40	32	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Dichlorodifluoromethane (Freon 12)	ND	40	3.8	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1-Dichloroethane	ND	20	2.8	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2-Dichloroethane	ND UJ	20	6.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1-Dichloroethylene	ND	20	2.8	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
cis-1,2-Dichloroethylene	1400	20	2.9	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
trans-1,2-Dichloroethylene	13 J	20	3.4	µg/L	20	~~V-06, J~~	SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2-Dichloropropane	ND	20	3.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,3-Dichloropropane	ND	10	2.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
2,2-Dichloropropane	ND	20	6.5	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1-Dichloropropene	ND	40	3.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
cis-1,3-Dichloropropene	ND	10	3.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
trans-1,3-Dichloropropene	ND	10	3.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Diethyl Ether	ND	40	3.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF

MW 2/25/23

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Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-25 | Sampled: 11/29/2022 11:40

Sample ID: 22L0331-02

Sample Matrix: Ground 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
Diisopropyl Ether (DIPE)	ND	10	2.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,4-Dioxane	ND	1000	410	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Ethylbenzene	ND	20	4.3	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Hexachlorobutadiene	ND	12	9.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
2-Hexanone (MBK)	ND	200	22	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Isopropylbenzene (Cumene)	ND	20	2.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
p-Isopropyltoluene (p-Cymene)	ND	20	1.9	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Methyl Acetate	ND	20	9.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Methyl tert-Butyl Ether (MTBE)	ND	20	3.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Methyl Cyclohexane	ND	20	4.9	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Methylene Chloride	ND	100	4.7	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
4-Methyl-2-pentanone (MIBK)	ND	200	26	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Naphthalene	ND UJ	40	4.9	µg/L	20	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 17:49	MFF
n-Propylbenzene	ND	20	1.7	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Styrene	ND	20	2.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1,1,2-Tetrachloroethane	ND	20	3.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1,2,2-Tetrachloroethane	ND	10	2.5	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Tetrachloroethylene	ND	20	3.7	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Tetrahydrofuran	ND	200	9.8	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Toluene	ND	20	4.5	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2,3-Trichlorobenzene	ND	100	6.1	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2,4-Trichlorobenzene	ND	20	5.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,3,5-Trichlorobenzene	ND	20	4.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1,1-Trichloroethane	ND	20	3.4	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1,2-Trichloroethane	ND	20	3.7	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Trichloroethylene	31	20	3.8	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Trichlorofluoromethane (Freon 11)	ND	40	3.5	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2,3-Trichloropropane	ND	40	5.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	4.5	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,2,4-Trimethylbenzene	ND	20	4.0	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
1,3,5-Trimethylbenzene	ND	20	2.3	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
Vinyl Chloride	450	40	4.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
m+p Xylene	ND	40	9.2	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF
o-Xylene	ND	20	4.6	µg/L	20		SW-846 8260D	12/7/22	12/7/22 17:49	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/7/22 17:49
Toluene-d8	98.2	70-130		12/7/22 17:49
4-Bromofluorobenzene	93.5	70-130		12/7/22 17:49

NW 2/23/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: IW-24
Sampled: 11/29/2022 13:45
Sample ID: 22L0331-03
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	28	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
2-Butanone (MEK)	6.9	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2 Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2-Dichloroethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
cis-1,2-Dichloroethylene	1.4 J	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-24 | Sampled: 11/29/2022 13:45

Sample ID: 22L0331-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Methyl Acetate	0.91	1.0	0.45	µg/L	1	~~V-06~~, J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Methyl tert-Butyl Ether (MTBE)	0.58	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Tetrahydrofuran	1.3	10	0.49	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
Vinyl Chloride	0.22	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:09	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 12:09
Toluene-d8	99.3	70-130		12/7/22 12:09
4-Bromofluorobenzene	94.6	70-130		12/7/22 12:09

NW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: IW-19
Sampled: 11/29/2022 14:50
Sample ID: 22L0331-04
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.6	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Benzene	3.5	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2 Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2-Dichloroethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
cis-1,2-Dichloroethylene	27	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
trans-1,2-Dichloroethylene	ND UJ	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF

NW 2/23/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-19
Sampled: 11/29/2022 14:50

Sample ID: 22L0331-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Methyl tert-Butyl Ether (MTBE)	0.98	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 12:35	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Toluene	0.98	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Trichloroethylene	1.3	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
Vinyl Chloride	16	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 12:35	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 12:35
Toluene-d8	99.3	70-130		12/7/22 12:35
4-Bromofluorobenzene	93.9	70-130		12/7/22 12:35

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14BR
Sampled: 11/29/2022 16:00

Sample ID: 22L0331-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.5	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Benzene	0.36	1.0	0.20	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2-Dichloroethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
cis-1,2-Dichloroethylene	3.1	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
trans-1,2-Dichloroethylene	ND UJ	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF

NW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14BR | Sampled: 11/29/2022 16:00

Sample ID: 22L0331-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 13:01	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Trichloroethylene	0.96	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
Vinyl Chloride	0.59	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:01	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	113	70-130		12/7/22 13:01	
Toluene-d8	97.8	70-130		12/7/22 13:01	
4-Bromofluorobenzene	95.0	70-130		12/7/22 13:01	

NW 12/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-11
Sampled: 11/29/2022 15:30

Sample ID: 22L0331-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.3	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2-Dichloroethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
cis-1,2-Dichloroethylene	0.42	1.0	0.15	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:27	MFF
trans-1,2-Dichloroethylene	ND UJ	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-11 | Sampled: 11/29/2022 15:30

Sample ID: 22L0331-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Methyl tert-Butyl Ether (MTBE)	0.45	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 13:27	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 13:27
Toluene-d8	98.3	70-130		12/7/22 13:27
4-Bromofluorobenzene	96.4	70-130		12/7/22 13:27

NW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: IW-7
Sampled: 11/29/2022 14:05
Sample ID: 22L0331-07
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	3.6	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Benzene	0.81	1.0	0.20	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2 Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2-Dichloroethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
cis-1,2-Dichloroethylene	0.40	1.0	0.15	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:54	MFF
trans-1,2-Dichloroethylene	ND UJ	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: 1W-7
Sampled: 11/29/2022 14:05
Sample ID: 22L0331-07
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Methyl tert-Butyl Ether (MTBE)	0.50	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 13:54	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 13:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	113	70-130		12/7/22 13:54	
Toluene-d8	98.5	70-130		12/7/22 13:54	
4-Bromofluorobenzene	93.4	70-130		12/7/22 13:54	

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: IW-11
Sampled: 11/29/2022 13:00
Sample ID: 22L0331-08
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.8	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
2-Butanone (MEK)	3.5	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2 Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2-Dichloroethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
cis-1,2-Dichloroethylene	1.2	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
trans-1,2-Dichloroethylene	ND UJ	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF

12/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-11 | Sampled: 11/29/2022 13:00

Sample ID: 22L0331-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Tetrahydrofuran	2.2	10	0.49	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Trichloroethylene	0.33	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
Vinyl Chloride	0.61	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:20	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	116	70-130		12/7/22 14:20	
Toluene-d8	98.4	70-130		12/7/22 14:20	
4-Bromofluorobenzene	94.3	70-130		12/7/22 14:20	

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: IW-14
Sampled: 11/29/2022 11:15
Sample ID: 22L0331-09
Sample Matrix: Ground 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	12/7/22	12/7/22 14:46	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Benzene	1.2	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
2-Butanone (MEK)	13	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:46	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2 Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2-Dichloroethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
cis-1,2-Dichloroethylene	1.7	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
trans-1,2-Dichloroethylene	0.21 J	1.0	0.17	µg/L	1	~~V-06,J~~	SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF

MW 12/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL, 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-14
Sampled: 11/29/2022 11:15

Sample ID: 22L0331-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 14:46	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Toluene	0.39	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
Vinyl Chloride	1.5	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 14:46	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 14:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	112	70-130		12/7/22 14:46	
Toluene-d8	98.7	70-130		12/7/22 14:46	
4-Bromofluorobenzene	92.9	70-130		12/7/22 14:46	

MW 2/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-17
Sampled: 11/29/2022 09:55

Sample ID: 22L0331-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	9.6	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Benzene	1.7	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
2-Butanone (MEK)	12	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
trans-1,4-Dichloro-2-butene	ND UJ	2.0	1.6	µg/L	1	~~MS-07A, V-05~~	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1-Dichloroethane	0.81	1.0	0.14	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2-Dichloroethane	0.86	1.0	0.31	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
cis-1,2-Dichloroethylene	11	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
2,2-Dichloropropane	ND UJ	1.0	0.33	µg/L	1	~~MS-07A~~	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Diethyl Ether	0.75	2.0	0.18	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF

MW 2/25/23

con-test
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: IW-17
Sampled: 11/29/2022 09:55
Sample ID: 22L0331-10
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	0.26	0.50	0.13	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1	~~R-06~~	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Methyl Acetate	2.0 J	1.0	0.45	µg/L	1	~~MS-12, V-06~~	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Methyl tert-Butyl Ether (MTBE)	0.56	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Toluene	0.33	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
Vinyl Chloride	11	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		12/7/22 23:55
Toluene-d8	99.0	70-130		12/7/22 23:55
4-Bromofluorobenzene	95.6	70-130		12/7/22 23:55

AW 2/25/23

con-test
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: IW-3
Sampled: 11/30/2022 09:20
Sample ID: 22L0331-11
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	19	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
2-Butanone (MEK)	11	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 15:12	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2 Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2-Dichloroethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
cis-1,2-Dichloroethylene	3.9	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
trans-1,2-Dichloroethylene	0.34 J	1.0	0.17	µg/L	1	~~V-06, J-~~	SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF

JW 12/25/23

11

con-test
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: IW-3
Sampled: 11/30/2022 09:20
Sample ID: 22L0331-11
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 15:12	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Tetrahydrofuran	36	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
Vinyl Chloride	1.1	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 15:12	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 15:12
Toluene-d8	98.6	70-130		12/7/22 15:12
4-Bromofluorobenzene	93.8	70-130		12/7/22 15:12

MW 12/5/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-15
Sampled: 11/30/2022 10:35

Sample ID: 22L0331-12

Sample Matrix: Ground 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	12/7/22	12/7/22 15:38	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1	UJ	SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1	UJ	SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF

NW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: MW-15
Sampled: 11/30/2022 10:35
Sample ID: 22L0331-12
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 15:38	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 15:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	116	70-130			12/7/22 15:38
Toluene-d8	100	70-130			12/7/22 15:38
4-Bromofluorobenzene	94.8	70-130			12/7/22 15:38

MW-2/25123

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: MW-15BR
Sampled: 11/30/2022 11:45
Sample ID: 22L0331-13
Sample Matrix: Ground 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	12/7/22	12/7/22 16:04	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Benzene	1.4	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2-Dichloroethane	ND	UJ 1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
cis-1,2-Dichloroethylene	43	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
trans-1,2-Dichloroethylene	ND	UJ 1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF

NW 12/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-15BR
Sampled: 11/30/2022 11:45

Sample ID: 22L0331-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Methyl tert-Butyl Ether (MTBE)	0.45	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Naphthalene	ND ug	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 16:04	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Trichloroethylene	2.0	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
Vinyl Chloride	16	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/7/22 16:04
Toluene-d8	99.2	70-130		12/7/22 16:04
4-Bromofluorobenzene	94.1	70-130		12/7/22 16:04

mw 12/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: IW-1
Sampled: 11/30/2022 13:30
Sample ID: 22L0331-14
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	75	50	2.0	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
2-Butanone (MEK)	15	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:31	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2-Dichloroethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
trans-1,2-Dichloroethylene	ND UJ	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF

NW 2125123

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-1 | Sampled: 11/30/2022 13:30

Sample ID: 22L0331-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 16:31	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Tetrahydrofuran	11	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Toluene	0.25	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 16:31
Toluene-d8	98.2	70-130		12/7/22 16:31
4-Bromofluorobenzene	95.2	70-130		12/7/22 16:31

12/23/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-2
Sampled: 11/30/2022 15:15

Sample ID: 22L0331-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	26	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
2-Butanone (MEK)	3.5	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:57	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2-Dichloroethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
trans-1,2-Dichloroethylene	ND UJ	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF

MW 2/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-2
Sampled: 11/30/2022 15:15

Sample ID: 22L0331-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 16:57	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Tetrahydrofuran	2.6	10	0.49	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Toluene	0.30	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 16:57	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	114	70-130		12/7/22 16:57	
Toluene-d8	99.5	70-130		12/7/22 16:57	
4-Bromofluorobenzene	92.0	70-130		12/7/22 16:57	

MW 2/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: MW-13
Sampled: 11/30/2022 10:35
Sample ID: 22L0331-16
Sample Matrix: Ground 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	500	20	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Acrylonitrile	ND	50	5.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	1.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Benzene	ND	10	2.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Bromobenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Bromochloromethane	ND	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Bromodichloromethane	ND	5.0	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Bromoform	ND	10	3.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Bromomethane	ND	20	15	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
2-Butanone (MEK)	ND	200	16	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
tert-Butyl Alcohol (TBA)	ND	200	47	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
n-Butylbenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
sec-Butylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
tert-Butylbenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Carbon Disulfide	ND	50	14	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Carbon Tetrachloride	ND	50	1.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Chlorobenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Chlorodibromomethane	ND	5.0	2.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Chloroethane	ND	20	3.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Chloroform	ND	20	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Chloromethane	ND	20	5.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
2-Chlorotoluene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
4-Chlorotoluene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	8.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Dibromomethane	ND	10	3.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,3-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,4-Dichlorobenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
trans-1,4-Dichloro-2-butene	ND	20	16	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1-Dichloroethane	ND	10	1.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2-Dichloroethane	ND UJ	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1-Dichloroethylene	1.8	10	1.4	µg/L	10	J	SW-846 8260D	12/7/22	12/7/22 18:15	MFF
cis-1,2-Dichloroethylene	810	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
trans-1,2-Dichloroethylene	11 J	10	1.7	µg/L	10	~~V-06~~	SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2-Dichloropropane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,3-Dichloropropane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
2,2-Dichloropropane	ND	10	3.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1-Dichloropropene	ND	20	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
cis-1,3-Dichloropropene	ND	5.0	1.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
trans-1,3-Dichloropropene	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Diethyl Ether	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF

jw 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-13 | Sampled: 11/30/2022 10:35

Sample ID: 22L0331-16

Sample Matrix: Ground 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
Diisopropyl Ether (DIPE)	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,4-Dioxane	ND	500	210	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Ethylbenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Hexachlorobutadiene	ND	6.0	4.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
2-Hexanone (MBK)	ND	100	11	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Isopropylbenzene (Cumene)	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	0.97	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Methyl Acetate	ND	10	4.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Methyl Cyclohexane	3.2	10	2.4	µg/L	10	J	SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Methylene Chloride	ND	50	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	13	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Naphthalene	ND UJ	20	2.4	µg/L	10	V-05	SW-846 8260D	12/7/22	12/7/22 18:15	MFF
n-Propylbenzene	ND	10	0.86	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Styrene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1,1,2-Tetrachloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Tetrachloroethylene	1000	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Tetrahydrofuran	ND	100	4.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Toluene	ND	10	2.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2,3-Trichlorobenzene	ND	50	3.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2,4-Trichlorobenzene	ND	10	2.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,3,5-Trichlorobenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1,1-Trichloroethane	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1,2-Trichloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Trichloroethylene	490	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2,3-Trichloropropane	ND	20	2.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,2,4-Trimethylbenzene	ND	10	2.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
1,3,5-Trimethylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
Vinyl Chloride	76	20	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
m+p Xylene	ND	20	4.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF
o-Xylene	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/7/22 18:15
Toluene-d8	99.0	70-130		12/7/22 18:15
4-Bromofluorobenzene	94.5	70-130		12/7/22 18:15

mw 12/25/22

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-9
Sampled: 11/30/2022 11:30

Sample ID: 22L0331-17

Sample Matrix: Ground 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	500	20	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Acrylonitrile	ND	50	5.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	1.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Benzene	ND	10	2.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Bromobenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Bromochloromethane	ND	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Bromodichloromethane	ND	5.0	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Bromoform	ND	10	3.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Bromomethane	ND	20	15	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
2-Butanone (MEK)	ND	200	16	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
tert-Butyl Alcohol (TBA)	ND	200	47	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
n-Butylbenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
sec-Butylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
tert-Butylbenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Carbon Disulfide	ND	50	14	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Carbon Tetrachloride	ND	50	1.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Chlorobenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Chlorodibromomethane	ND	5.0	2.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Chloroethane	ND	20	3.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Chloroform	ND	20	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Chloromethane	ND	20	5.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
2-Chlorotoluene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
4-Chlorotoluene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	8.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Dibromomethane	ND	10	3.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,3-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,4-Dichlorobenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
trans-1,4-Dichloro-2-butene	ND	20	16	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1-Dichloroethane	ND	10	1.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2-Dichloroethane	ND UJ	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1-Dichloroethylene	ND	10	1.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
cis-1,2-Dichloroethylene	840	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
trans-1,2-Dichloroethylene	9.1 J	10	1.7	µg/L	10	~~V-06, J~~	SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2-Dichloropropane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,3-Dichloropropane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
2,2-Dichloropropane	ND	10	3.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1-Dichloropropene	ND	20	1.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
cis-1,3-Dichloropropene	ND	5.0	1.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
trans-1,3-Dichloropropene	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Diethyl Ether	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF

mw 12/25/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-9
Sampled: 11/30/2022 11:30

Sample ID: 22L0331-17

Sample Matrix: Ground 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
Diisopropyl Ether (DIPE)	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,4-Dioxane	ND	500	210	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Ethylbenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Hexachlorobutadiene	ND	6.0	4.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
2-Hexanone (MBK)	ND	100	11	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Isopropylbenzene (Cumene)	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	0.97	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Methyl Acetate	ND	10	4.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Methyl Cyclohexane	ND	10	2.4	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Methylene Chloride	ND	50	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	13	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Naphthalene	ND UJ	20	2.4	µg/L	10	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 18:41	MFF
n-Propylbenzene	ND	10	0.86	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Styrene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1,1,2-Tetrachloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Tetrachloroethylene	460	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Tetrahydrofuran	ND	100	4.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Toluene	ND	10	2.2	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2,3-Trichlorobenzene	ND	50	3.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2,4-Trichlorobenzene	ND	10	2.5	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,3,5-Trichlorobenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1,1-Trichloroethane	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1,2-Trichloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Trichloroethylene	370	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2,3-Trichloropropane	ND	20	2.8	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,2,4-Trimethylbenzene	ND	10	2.0	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
1,3,5-Trimethylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
Vinyl Chloride	110	20	2.1	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
m+p Xylene	ND	20	4.6	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF
o-Xylene	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/7/22 18:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/7/22 18:41
Toluene-d8	99.8	70-130		12/7/22 18:41
4-Bromofluorobenzene	93.9	70-130		12/7/22 18:41

MW 12/23/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-10BR
Sampled: 11/30/2022 08:55

Sample ID: 22L0331-18

Sample Matrix: Ground 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	12/7/22	12/7/22 17:23	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1	UJ	SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1	UJ	SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF

nw 2/25/23

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A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: MW-10BR
Sampled: 11/30/2022 08:55
Sample ID: 22L0331-18
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Methyl tert-Butyl Ether (MTBE)	1.3	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 17:23	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 17:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		12/7/22 17:23
Toluene-d8	98.9	70-130		12/7/22 17:23
4-Bromofluorobenzene	93.0	70-130		12/7/22 17:23

MW 12/5/23

con-test
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-5
Sampled: 11/30/2022 15:10

Sample ID: 22L0331-19

Sample Matrix: Ground 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	12/7/22	12/8/22 0:21	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
cis-1,2-Dichloroethylene	0.58	1.0	0.15	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF

mw 12/23/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: MW-5
Sampled: 11/30/2022 15:10
Sample ID: 22L0331-19
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Tetrachloroethylene	0.82	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Trichloroethylene	0.54	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		12/8/22 0:21
Toluene-d8	98.4	70-130		12/8/22 0:21
4-Bromofluorobenzene	94.8	70-130		12/8/22 0:21

12/12/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14
Sampled: 11/30/2022 13:40

Sample ID: 22L0331-20

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	20	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Benzene	1.3	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
cis-1,2-Dichloroethylene	1.7	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF

MW-2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14
Sampled: 11/30/2022 13:40

Sample ID: 22L0331-20

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Methyl tert-Butyl Ether (MTBE)	0.25	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Tetrachloroethylene	1.7	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Tetrahydrofuran	1.5	10	0.49	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Toluene	0.40	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Trichloroethylene	1.1	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
Vinyl Chloride	0.37	2.0	0.21	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 0:47	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 0:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/8/22 0:47
Toluene-d8	97.3	70-130		12/8/22 0:47
4-Bromofluorobenzene	96.3	70-130		12/8/22 0:47

MW-21251123

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-17
Sampled: 12/1/2022 09:30

Sample ID: 22L0331-21

Sample Matrix: Ground 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	12/7/22	12/8/22 1:14	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF

MW 21 25123

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-17
Sampled: 12/1/2022 09:30

Sample ID: 22L0331-21

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 1:14	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	109	70-130		12/8/22	1:14
Toluene-d8	98.2	70-130		12/8/22	1:14
4-Bromofluorobenzene	96.1	70-130		12/8/22	1:14

MW-12S123

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: MW-17BR
Sampled: 12/1/2022 10:45
Sample ID: 22L0331-22
Sample Matrix: Ground 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	12/7/22	12/8/22 1:40	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF

12/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-17BR
Sampled: 12/1/2022 10:45

Sample ID: 22L0331-22

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 1:40	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 1:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		12/8/22 1:40
Toluene-d8	97.3	70-130		12/8/22 1:40
4-Bromofluorobenzene	93.9	70-130		12/8/22 1:40

NW 2125123

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A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: MW-16
Sampled: 12/1/2022 13:25
Sample ID: 22L0331-23
Sample Matrix: Ground 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	12/7/22	12/8/22 2:06	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-16
Sampled: 12/1/2022 13:25

Sample ID: 22L0331-23

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 2:06	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Trichloroethylene	0.52	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		12/8/22 2:06
Toluene-d8	98.6	70-130		12/8/22 2:06
4-Bromofluorobenzene	95.8	70-130		12/8/22 2:06

12/12/22 12/5/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: MW-16BR
Sampled: 12/1/2022 12:20
Sample ID: 22L0331-24
Sample Matrix: Ground 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	12/7/22	12/8/22 2:32	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF

mw 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: MW-16BR
Sampled: 12/1/2022 12:20
Sample ID: 22L0331-24
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 2:32	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/8/22 2:32
Toluene-d8	98.9	70-130		12/8/22 2:32
4-Bromofluorobenzene	95.9	70-130		12/8/22 2:32

12/25/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-1R
Sampled: 12/1/2022 14:20

Sample ID: 22L0331-25

Sample Matrix: Ground 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	4.1	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Acrylonitrile	ND	10	1.1	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	1.0	0.29	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Benzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Bromobenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Bromochloromethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Bromodichloromethane	ND	1.0	0.36	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Bromoform	ND	2.0	0.77	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Bromomethane	ND	4.0	3.1	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
2-Butanone (MEK)	ND	40	3.2	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
tert-Butyl Alcohol (TBA)	ND	40	9.4	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
n-Butylbenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
sec-Butylbenzene	ND	2.0	0.22	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
tert-Butylbenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	0.30	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Carbon Disulfide	ND	10	2.9	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Chlorobenzene	ND	2.0	0.21	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Chlorodibromomethane	ND	1.0	0.44	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Chloroethane	ND	4.0	0.64	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Chloroform	ND	4.0	0.34	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Chloromethane	ND	4.0	1.0	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
2-Chlorotoluene	ND	2.0	0.23	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
4-Chlorotoluene	ND	2.0	0.24	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	1.6	µg/L	2	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2-Dibromoethane (EDB)	ND	1.0	0.34	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Dibromomethane	ND	2.0	0.71	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,3-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
trans-1,4-Dichloro-2-butene	ND	4.0	3.2	µg/L	2	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.38	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1-Dichloroethane	0.84	2.0	0.28	µg/L	2	J	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2-Dichloroethane	ND	2.0	0.62	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1-Dichloroethylene	0.66	2.0	0.28	µg/L	2	J	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
cis-1,2-Dichloroethylene	150	2.0	0.29	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
trans-1,2-Dichloroethylene	1.4	2.0	0.34	µg/L	2	J	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2-Dichloropropane	ND	2.0	0.36	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,3-Dichloropropane	ND	1.0	0.26	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
2,2-Dichloropropane	ND	2.0	0.65	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1-Dichloropropene	ND	4.0	0.30	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
cis-1,3-Dichloropropene	ND	1.0	0.32	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
trans-1,3-Dichloropropene	ND	1.0	0.34	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Diethyl Ether	ND	4.0	0.36	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-1R
Sampled: 12/1/2022 14:20

Sample ID: 22L0331-25

Sample Matrix: Ground 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
Diisopropyl Ether (DIPE)	ND	1.0	0.26	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,4-Dioxane	ND	100	41	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Ethylbenzene	ND	2.0	0.43	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Hexachlorobutadiene	ND	1.2	0.91	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
2-Hexanone (MBK)	ND	20	2.2	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Isopropylbenzene (Cumene)	ND	2.0	0.22	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.19	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Methyl Acetate	ND	2.0	0.91	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Methyl Cyclohexane	ND	2.0	0.49	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Methylene Chloride	ND	10	0.47	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Naphthalene	ND UJ	4.0	0.49	µg/L	2	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 6:28	MFF
n-Propylbenzene	ND	2.0	0.17	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Styrene	ND	2.0	0.21	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1,1,2-Tetrachloroethane	ND	2.0	0.36	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Tetrachloroethylene	200	2.0	0.37	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Tetrahydrofuran	ND	20	0.98	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2,3-Trichlorobenzene	ND	10	0.61	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2,4-Trichlorobenzene	ND	2.0	0.50	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,3,5-Trichlorobenzene	ND	2.0	0.42	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1,1-Trichloroethane	ND	2.0	0.34	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1,2-Trichloroethane	ND	2.0	0.37	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Trichloroethylene	71	2.0	0.38	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Trichlorofluoromethane (Freon 11)	ND	4.0	0.35	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2,3-Trichloropropane	ND	4.0	0.56	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.45	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,2,4-Trimethylbenzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
1,3,5-Trimethylbenzene	ND	2.0	0.23	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
Vinyl Chloride	32	4.0	0.42	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
m+p Xylene	ND	4.0	0.92	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF
o-Xylene	ND	2.0	0.46	µg/L	2		SW-846 8260D	12/7/22	12/8/22 6:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		12/8/22 6:28
Toluene-d8	97.2	70-130		12/8/22 6:28
4-Bromofluorobenzene	93.5	70-130		12/8/22 6:28

MW-1 12/5/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-7
Sampled: 12/1/2022 12:40

Sample ID: 22L0331-26

Sample Matrix: Ground 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	12/7/22	12/8/22 2:58	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Benzene	0.24	1.0	0.20	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
cis-1,2-Dichloroethylene	5.9	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF

MW 2125123

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-7
Sampled: 12/1/2022 12:40

Sample ID: 22L0331-26

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 2:58	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
Vinyl Chloride	16	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 2:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/8/22 2:58
Toluene-d8	97.6	70-130		12/8/22 2:58
4-Bromofluorobenzene	93.6	70-130		12/8/22 2:58

MW 2/25/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-12
Sampled: 12/1/2022 10:50

Sample ID: 22L0331-27

Sample Matrix: Ground 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	12/7/22	12/8/22 3:24	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Benzene	0.21	1.0	0.20	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Chloroethane	53	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
cis-1,2-Dichloroethylene	0.84	1.0	0.15	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF

mw-12251123

con-test
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-12
Sampled: 12/1/2022 10:50

Sample ID: 22L0331-27

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Toluene	0.50	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Trichloroethylene	0.69	1.0	0.19	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:24	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/8/22 3:24
Toluene-d8	98.0	70-130		12/8/22 3:24
4-Bromofluorobenzene	94.4	70-130		12/8/22 3:24

MW 12/25/23

con-test
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY | Sample Description: | Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-2 | Sampled: 12/1/2022 09:10

Sample ID: 22L0331-28

Sample Matrix: Ground 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	12/7/22	12/8/22 3:51	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Bromodichloromethane	0.70	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Chlorodibromomethane	0.33	0.50	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Chloroform	1.3 u	2.0	0.17	µg/L	1	✓	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
cis-1,2-Dichloroethylene	0.63	1.0	0.15	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF

MW 2/25/23

con-test
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-2
Sampled: 12/1/2022 09:10

Sample ID: 22L0331-28

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 3:51	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Tetrachloroethylene	15	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Trichloroethylene	1.8	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 3:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/8/22 3:51
Toluene-d8	98.6	70-130		12/8/22 3:51
4-Bromofluorobenzene	94.9	70-130		12/8/22 3:51

MW 12/25/23

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A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: DUP-112922-1
Sampled: 11/29/2022 00:00

Sample ID: 22L0331-29

Sample Matrix: Ground 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	500	20	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Acrylonitrile	ND	50	5.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	1.4	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Benzene	2.4	10	2.0	µg/L	10	J	SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Bromobenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Bromochloromethane	ND	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Bromodichloromethane	ND	5.0	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Bromoform	ND	10	3.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Bromomethane	ND	20	15	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
2-Butanone (MEK)	ND	200	16	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
tert-Butyl Alcohol (TBA)	ND	200	47	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
n-Butylbenzene	ND	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
sec-Butylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
tert-Butylbenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	1.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Carbon Disulfide	ND	50	14	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Carbon Tetrachloride	ND	50	1.6	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Chlorobenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Chlorodibromomethane	ND	5.0	2.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Chloroethane	ND	20	3.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Chloroform	ND	20	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Chloromethane	ND	20	5.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
2-Chlorotoluene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
4-Chlorotoluene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	8.0	µg/L	10	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Dibromomethane	ND	10	3.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,3-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,4-Dichlorobenzene	ND	10	1.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
trans-1,4-Dichloro-2-butene	ND	20	16	µg/L	10	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.9	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1-Dichloroethane	ND	10	1.4	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2-Dichloroethane	ND	10	3.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1-Dichloroethylene	2.0	10	1.4	µg/L	10	J	SW-846 8260D	12/7/22	12/8/22 6:54	MFF
cis-1,2-Dichloroethylene	1300	10	1.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
trans-1,2-Dichloroethylene	12	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2-Dichloropropane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,3-Dichloropropane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
2,2-Dichloropropane	ND	10	3.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1-Dichloropropene	ND	20	1.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
cis-1,3-Dichloropropene	ND	5.0	1.6	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
trans-1,3-Dichloropropene	ND	5.0	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Diethyl Ether	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF

MW 2/25/23

con-test
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: DUP-112922-1
Sampled: 11/29/2022 00:00
Sample ID: 22L0331-29
Sample Matrix: Ground 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
Diisopropyl Ether (DIPE)	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,4-Dioxane	ND	500	210	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Ethylbenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Hexachlorobutadiene	ND	6.0	4.6	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
2-Hexanone (MBK)	ND	100	11	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Isopropylbenzene (Cumene)	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	0.97	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Methyl Acetate	ND	10	4.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Methyl Cyclohexane	ND	10	2.4	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Methylene Chloride	ND	50	2.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	13	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Naphthalene	ND UJ	20	2.4	µg/L	10	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 6:54	MFF
n-Propylbenzene	ND	10	0.86	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Styrene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1,1,2-Tetrachloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Tetrachloroethylene	ND	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Tetrahydrofuran	ND	100	4.9	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Toluene	ND	10	2.2	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2,3-Trichlorobenzene	ND	50	3.0	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2,4-Trichlorobenzene	ND	10	2.5	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,3,5-Trichlorobenzene	ND	10	2.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1,1-Trichloroethane	ND	10	1.7	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1,2-Trichloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Trichloroethylene	30	10	1.9	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2,3-Trichloropropane	ND	20	2.8	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,2,4-Trimethylbenzene	ND	10	2.0	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
1,3,5-Trimethylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
Vinyl Chloride	420	20	2.1	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
m+p Xylene	ND	20	4.6	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF
o-Xylene	ND	10	2.3	µg/L	10		SW-846 8260D	12/7/22	12/8/22 6:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/8/22 6:54
Toluene-d8	97.0	70-130		12/8/22 6:54
4-Bromofluorobenzene	95.3	70-130		12/8/22 6:54

MW 2/25/23

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A Place Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: DUP-112922-2
Sampled: 11/29/2022 00:00
Sample ID: 22L0331-30
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	9.4	50	2.0	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Benzene	1.8	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
2-Butanone (MEK)	12	20	1.6	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1-Dichloroethane	0.86	1.0	0.14	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2-Dichloroethane	0.90	1.0	0.31	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
cis-1,2-Dichloroethylene	11	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Diethyl Ether	0.81	2.0	0.18	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: DUP-112922-2
Sampled: 11/29/2022 00:00

Sample ID: 22L0331-30

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	0.28	0.50	0.13	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Methyl Acetate	1.8	1.0	0.45	µg/L	1	~~V-06~~	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Methyl tert-Butyl Ether (MTBE)	0.57	1.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Toluene	0.30	1.0	0.22	µg/L	1	J	SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
Vinyl Chloride	11	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/8/22 4:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		12/8/22 4:17
Toluene-d8	98.6	70-130		12/8/22 4:17
4-Bromofluorobenzene	94.1	70-130		12/8/22 4:17

LW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: Trip Blank
Sampled: 11/29/2022 09:40

Sample ID: 22L0331-31

Sample Matrix: Ground 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	12/7/22	12/7/22 23:29	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Chloroform	0.92	2.0	0.17	µg/L	1	J	SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF

MW 2/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: Trip Blank
Sampled: 11/29/2022 09:40

Sample ID: 22L0331-31

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/7/22	12/7/22 23:29	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/7/22	12/7/22 23:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		12/7/22 23:29
Toluene-d8	97.4	70-130		12/7/22 23:29
4-Bromofluorobenzene	95.1	70-130		12/7/22 23:29

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-29
Sampled: 11/29/2022 09:40

Sample ID: 22L0331-01

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 13:26	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/12/22	12/12/22 13:26	TPH
Methane	7.7	0.014	0.0024	mg/L	2		RSK175	12/12/22	12/12/22 13:37	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: IW-25
Sampled: 11/29/2022 11:40
Sample ID: 22L0331-02
Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.0049 J	0.014	0.0026	mg/L	1	J	RSK175	12/12/22	12/12/22 14:47	TPH FD
Ethene	0.064	0.017	0.0030	mg/L	1		RSK175	12/12/22	12/12/22 14:47	TPH
Methane	4.6	0.0070	0.0012	mg/L	1		RSK175	12/12/22	12/12/22 14:47	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-24
Sampled: 11/29/2022 13:45

Sample ID: 22L0331-03

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 14:59	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/12/22	12/12/22 14:59	TPH
Methane	7.2	0.014	0.0024	mg/L	2		RSK175	12/12/22	12/12/22 15:24	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-19
Sampled: 11/29/2022 14:50

Sample ID: 22L0331-04

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.019	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 15:35	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/12/22	12/12/22 15:35	TPH
Methane	8.2	0.014	0.0024	mg/L	2		RSK175	12/12/22	12/12/22 15:42	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14BR
Sampled: 11/29/2022 16:00

Sample ID: 22L0331-05

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.028	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 15:52	TPH
Ethene	0.0068	0.017	0.0030	mg/L	1	J	RSK175	12/12/22	12/12/22 15:52	TPH
Methane	8.1	0.014	0.0024	mg/L	2		RSK175	12/12/22	12/12/22 15:59	TPH

MW 2/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-11
Sampled: 11/29/2022 15:30

Sample ID: 22L0331-06

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.072	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 16:14	TPH
Ethene	0.0034	0.017	0.0030	mg/L	1	J	RSK175	12/12/22	12/12/22 16:14	TPH
Methane	4.6	0.0070	0.0012	mg/L	1		RSK175	12/12/22	12/12/22 16:14	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-7
Sampled: 11/29/2022 14:05

Sample ID: 22L0331-07

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.063	0.014	0.0026	mg/L	1		RSK175	12/12/22	12/12/22 16:31	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/12/22	12/12/22 16:31	TPH
Methane	12	0.035	0.0060	mg/L	5		RSK175	12/12/22	12/12/22 16:41	TPH

MW-212512 3

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-11
Sampled: 11/29/2022 13:00

Sample ID: 22L0331-08

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 10:37	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 10:37	TPH
Methane	12	0.035	0.0060	mg/L	5		RSK175	12/13/22	12/13/22 10:50	TPH

m-12/5/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-14
Sampled: 11/29/2022 11:15

Sample ID: 22L0331-09

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.068	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 10:57	TPH
Ethene	0.0067	0.017	0.0030	mg/L	1	J	RSK175	12/13/22	12/13/22 10:57	TPH
Methane	11	0.035	0.0060	mg/L	5		RSK175	12/13/22	12/13/22 11:08	TPH

12/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-17
Sampled: 11/29/2022 09:55

Sample ID: 22L0331-10

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.16	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 11:15	TPH
Ethene	0.12	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 11:15	TPH
Methane	13	0.035	0.0060	mg/L	5		RSK175	12/13/22	12/13/22 11:23	TPH

12/23/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: 1W-3
Sampled: 11/30/2022 09:20

Sample ID: 22L0331-11

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 15:04	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 15:04	TPH
Methane	5.3	0.014	0.0024	mg/L	2		RSK175	12/13/22	12/13/22 14:46	TPH

NW 12/23/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-15
Sampled: 11/30/2022 10:35

Sample ID: 22L0331-12

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 15:16	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 15:16	TPH
Methane	0.030 4	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 15:16	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-15BR
Sampled: 11/30/2022 11:45

Sample ID: 22L0331-13

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.078	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 15:31	TPH
Ethene	0.039	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 15:31	TPH
Methane	4.2	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 15:31	TPH

W 12/23/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-1
Sampled: 11/30/2022 13:30

Sample ID: 22L0331-14

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 15:38	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 15:38	TPH
Methane	7.3	0.014	0.0024	mg/L	2		RSK175	12/13/22	12/13/22 15:50	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: IW-2
Sampled: 11/30/2022 15:15

Sample ID: 22L0331-15

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 16:10	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 16:10	TPH
Methane	0.20	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 16:10	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-13
Sampled: 11/30/2022 10:35

Sample ID: 22L0331-16

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.027	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 16:19	TPH
Ethene	0.0054	0.017	0.0030	mg/L	1	J	RSK175	12/13/22	12/13/22 16:19	TPH
Methane	1.4	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 16:19	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-9
Sampled: 11/30/2022 11:30

Sample ID: 22L0331-17

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.036	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 16:32	TPH
Ethene	0.0056	0.017	0.0030	mg/L	1	J	RSK175	12/13/22	12/13/22 16:32	TPH
Methane	2.1	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 16:32	TPH

12/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-10BR
Sampled: 11/30/2022 08:55

Sample ID: 22L0331-18

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.024	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 17:52	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 17:52	TPH
Methane	1.8	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 17:52	TPH

mw21-25123

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-5
Sampled: 11/30/2022 15:10

Sample ID: 22L0331-19

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 18:03	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 18:03	TPH
Methane	0.0062 J	0.0070	0.0012	mg/L	1	J	RSK175	12/13/22	12/13/22 18:03	TPH

12/23/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-14
Sampled: 11/30/2022 13:40

Sample ID: 22L0331-20

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.014	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 18:10	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 18:10	TPH
Methane	6.1	0.014	0.0024	mg/L	2		RSK175	12/13/22	12/13/22 18:17	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-17
Sampled: 12/1/2022 09:30

Sample ID: 22L0331-21

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 11:36	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 11:36	TPH
Methane	0.0019 U	0.0070	0.0012	mg/L	1		RSK175	12/14/22	12/14/22 11:36	TPH

NW 2/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-17BR
Sampled: 12/1/2022 10:45

Sample ID: 22L0331-22

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 11:54	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 11:54	TPH
Methane	0.0020 U	0.0070	0.0012	mg/L	1	✓	RSK175	12/14/22	12/14/22 11:54	TPH

MW 12/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-16
Sampled: 12/1/2022 13:25

Sample ID: 22L0331-23

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 12:06	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 12:06	TPH
Methane	0.0016 U	0.0070	0.0012	mg/L	1	J	RSK175	12/14/22	12/14/22 12:06	TPH

MW 12/5/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331
Date Received: 12/2/2022
Field Sample #: MW-16BR
Sampled: 12/1/2022 12:20
Sample ID: 22L0331-24
Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 12:14	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 12:14	TPH
Methane	ND	0.0070	0.0012	mg/L	1		RSK175	12/14/22	12/14/22 12:14	TPH

MW 12/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-1R
Sampled: 12/1/2022 14:20

Sample ID: 22L0331-25

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.14	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 12:22	TPH
Ethene	0.026	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 12:22	TPH
Methane	2.4	0.0070	0.0012	mg/L	1		RSK175	12/14/22	12/14/22 12:22	TPH

mw 2/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-7
Sampled: 12/1/2022 12:40

Sample ID: 22L0331-26

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.091	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 12:51	TPH
Ethene	0.011	0.017	0.0030	mg/L	1	J	RSK175	12/14/22	12/14/22 12:51	TPH
Methane	8.0	0.014	0.0024	mg/L	2		RSK175	12/14/22	12/14/22 13:00	TPH

12-21-23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-12
Sampled: 12/1/2022 10:50

Sample ID: 22L0331-27

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.044	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 13:23	TPH
Ethene	0.0052	0.017	0.0030	mg/L	1	J	RSK175	12/14/22	12/14/22 13:23	TPH
Methane	12	0.035	0.0060	mg/L	5		RSK175	12/14/22	12/14/22 13:33	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: MW-2
Sampled: 12/1/2022 09:10

Sample ID: 22L0331-28

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/14/22	12/14/22 13:43	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/14/22	12/14/22 13:43	TPH
Methane	0.0084 U	0.0070	0.0012	mg/L	1		RSK175	12/14/22	12/14/22 13:43	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: DUP-112922-1
Sampled: 11/29/2022 00:00

Sample ID: 22L0331-29

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.090 J	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 12:22	TPH FD
Ethene	0.072	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 12:22	TPH
Methane	4.4	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 12:22	TPH

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: DUP-112922-2
Sampled: 11/29/2022 00:00

Sample ID: 22L0331-30

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.17	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 12:45	TPH
Ethene	0.13	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 12:45	TPH
Methane	12	0.035	0.0060	mg/L	5		RSK175	12/13/22	12/13/22 12:52	TPH

MW 12/25/23

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Project Location: Brewston, NY
Sample Description:
Work Order: 22L0331

Date Received: 12/2/2022

Field Sample #: Trip Blank
Sampled: 11/29/2022 09:40

Sample ID: 22L0331-31

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 13:30	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 13:30	TPH
Methane	0.013	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 13:30	TPH

NW 12/25/23

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
JACKS DRY CLEANERS, BREWERTON, NEW YORK

Client: Arcadis, Clifton Park, New York
SDG: 22L0428
Laboratory: Con-Test, East Longmeadow, Massachusetts
Site: Jacks Dry Cleaners, Brewerton, New York
Date: February 25, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	IW-31	22L0428-01	Water
2	MW-8	22L0428-02	Water
3*	TRIP BLANK	22L0428-03	Water

* - VOC only

A Data Usability Summary Review was performed on the analytical data for two water samples and one aqueous trip blank sample collected on December 2, 2022 by Arcadis at the Jacks Dry Cleaners site in Brewerton, New York. The samples were analyzed under Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions, and the Method for the Determination of Dissolved Gases in Water.

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260D
MEE	Method RSK 175

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning

- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D	Qualifier	Affected Samples
12/09/22 (2149)	Acetone	48.2%	J/UJ	1, 2, 3
	Methyl Acetate	47.4%	UJ	
	Vinyl Chloride	208%	J/UJ	

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations of methylene chloride, 2-butanone, toluene or acetone (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Sample ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TRIP BLANK	Chloroform	1.0	None	All Samples ND

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	%R	Qualifier	Affected Samples
B325215-BS1	Methyl Acetate	144%	None	Samples ND
	Vinyl Chloride	267%	None	See CCAL

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Dissolved Gases (Methane, Ethane, Ethene)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field blank samples were not collected.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- Several samples were analyzed at a dilution due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 2/27/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

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Project Location: Breverton, NY
Sample Description:
Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: IW-31
Sampled: 12/2/2022 09:45

Sample ID: 22L0428-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.5 J	50	2.0	µg/L	1	~~L-V-06~~	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1	~~R-05~~	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1	~~R-05~~	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
cis-1,2-Dichloroethylene	2.2	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1	~~V-05~~	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH

NW 2/23/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Breverton, NY
Sample Description:
Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: 1W-31
Sampled: 12/2/2022 09:45

Sample ID: 22L0428-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Tetrachloroethylene	0.48	1.0	0.19	µg/L	1	J	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Trichloroethylene	0.43	1.0	0.19	µg/L	1	J	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
Vinyl Chloride	4.4 J	2.0	0.21	µg/L	1	~~L-06, V-06~~	SW-846 8260D	12/8/22	12/10/22 3:15	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:15	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	107	70-130		12/10/22	3:15
Toluene-d8	101	70-130		12/10/22	3:15
4-Bromofluorobenzene	101	70-130		12/10/22	3:15

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Breverton, NY
Sample Description:
Work Order: 22L0428

Date Received: 12/3/2022
Field Sample #: MW-8
Sampled: 12/2/2022 11:40
Sample ID: 22L0428-02
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	3.1 J	50	2.0	µg/L	1	~~J, V-06~~	SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1	~~R-05~~	SW-846 8260D	12/8/22	12/10/22 3:42	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1	~~R-05~~	SW-846 8260D	12/8/22	12/10/22 3:42	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1	~~V-05~~	SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Breverton, NY
Sample Description:
Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: MW-8
Sampled: 12/2/2022 11:40

Sample ID: 22L0428-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
Vinyl Chloride	ND UJ	2.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 3:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	106	70-130		12/10/22	3:42
Toluene-d8	98.7	70-130		12/10/22	3:42
4-Bromofluorobenzene	99.6	70-130		12/10/22	3:42

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Breverton, NY
Sample Description:
Work Order: 22L0428 3

Date Received: 12/3/2022

Field Sample #: Trip Blank
Sampled: 12/2/2022 00:00

Sample ID: 22L0428-03

Sample Matrix: Ground 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		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1	~~R-05~~	SW-846 8260D	12/8/22	12/10/22 0:32	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1	~~R-05~~	SW-846 8260D	12/8/22	12/10/22 0:32	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Chloroform	1.0	2.0	0.17	µg/L	1	J	SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1	~~V-05~~	SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Breverton, NY
Sample Description:
Work Order: 22L0428

3

Date Received: 12/3/2022
Field Sample #: Trip Blank
Sampled: 12/2/2022 00:00
Sample ID: 22L0428-03
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
Vinyl Chloride	ND UJ	2.0	0.21	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/8/22	12/10/22 0:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		12/10/22 0:32
Toluene-d8	97.3	70-130		12/10/22 0:32
4-Bromofluorobenzene	101	70-130		12/10/22 0:32

mw 12/28/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Breverton, NY
Sample Description:
Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: IW-31
Sampled: 12/2/2022 09:45

Sample ID: 22L0428-01

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 13:07	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 13:07	TPH
Methane	11	0.035	0.0060	mg/L	5		RSK175	12/13/22	12/13/22 13:16	TPH

12/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Breverton, NY
Sample Description:
Work Order: 22L0428

Date Received: 12/3/2022

Field Sample #: MW-8
Sampled: 12/2/2022 11:40

Sample ID: 22L0428-02

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	ND	0.014	0.0026	mg/L	1		RSK175	12/13/22	12/13/22 13:24	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/13/22	12/13/22 13:24	TPH
Methane	0.019	0.0070	0.0012	mg/L	1		RSK175	12/13/22	12/13/22 13:24	TPH

NW 12/23/23

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
JACKS DRY CLEANERS, BREWERTON, NEW YORK

Client: Arcadis, Clifton Park, New York
SDG: 22L0503
Laboratory: Con-Test, East Longmeadow, Massachusetts
Alpha Analytical, Mansfield, Massachusetts
Site: Jacks Dry Cleaners, Brewerton, New York
Date: February 25, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-1R	22L0503-01	Water
2	MW-7	22L0503-02	Water
3	MW-12	22L0503-03	Water
3MS	MW-12MS	22L0503-03MS	Water
3MSD	MW-12MSD	22L0503-03MSD	Water
4	DUP-120122	22L0503-04	Water
5	EQ-120122	22L0503-05	Water

A Data Usability Summary Review was performed on the analytical data for four water samples and one aqueous equipment blank sample collected on December 1, 2022 by Arcadis at the Jacks Dry Cleaners site in Brewerton, New York. The samples were analyzed under Environmental Protection Agency (USEPA) Draft Method for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS.

Specific method references are as follows:

Analysis	*Method References*
PFAS	USEPA Draft Method 1633

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- USEPA Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFAS) Analyzed Using EPA Method 537, November 2018;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness
- Holding times and sample preservation

- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All samples were extracted and analyzed within holding times.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field blank sample results are summarized below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
EB-120122	None – ND	-	-	-

Surrogate Spike Recoveries

- The following table presents samples that exhibited surrogate percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

PFAS			
EDS Sample	Surrogate	%R	Qualifier
1	M2-4:2 FTS	186%	None - Sample ND
2	M2-4:2 FTS	173%	None - Sample ND
3	M2-4:2 FTS	225%	None - Sample ND
	M2-8:2 FTS	204%	
4	M2-4:2 FTS	232%	None - Sample ND

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

PFAS			
MS/MSD Sample ID	Compound	MS %R/MSD %R/ RPD	Qualifier
3	PFOA	OK/OK/31	None for RPD Alone
	PFTeDA	OK/OK/34	

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

PFAS				
LCS ID	Compound	%R	Qualifier	Affected Samples
WG1728076-2	PFDS	155%	None	Samples ND
	PFDoS	165%	None	

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- EDS Sample 1 exhibited PFOSA with an ion ratio outside of QC criteria and was flagged (F) by the laboratory. This result was qualified as estimated (J).

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

PFAS				
Compound	MW-12 ng/L	DUP-120122 ng/L	RPD	Qualifier
PFBA	2.98	3.37	12%	None
PFPeA	1.81	1.90	5%	
PFHxA	2.40	1.32	58%	None - <5X RL
PFHpA	0.508	1.46U	NC	None
PFOA	0.798	0.806	1%	
PFNA	2.47	1.46U	NC	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 2/27/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-01R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-01	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/06/23 18:11
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230106_14	Analyst	: LMV
Sample Amount	: 555.88 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	7.92	5.76	0.921	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	19.1	2.88	0.770	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	3.67	1.44	0.482	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.76	1.50	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	14.3	1.44	0.424	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	2.66	1.44	0.252	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	10.2	1.44	0.288	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	8.42	1.44	0.345	
335-67-1	Perfluorooctanoic Acid (PFOA)	49.9	1.44	0.626	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.76	1.94	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	4.10	1.44	0.388	
375-95-1	Perfluorononanoic Acid (PFNA)	9.43	1.44	0.453	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	415	1.44	0.655	
335-76-2	Perfluorodecanoic Acid (PFDA)	10.1	1.44	0.583	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.76	2.24	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.44	0.446	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.44	0.784	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.44	0.626	U

MW 1/25/23

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-01R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-01	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/06/23 18:11
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230106_14	Analyst	: LMV
Sample Amount	: 555.88 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.44	0.331	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	7.92	1.44	0.388	J
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	4.46	1.44	0.777	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.44	0.662	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.44	0.540	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.44	0.381	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.76	0.806	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.76	0.907	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.44	0.547	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.76	1.19	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.76	1.19	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.44	0.626	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.44	0.662	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	14.4	3.38	U

NW 2/25/23

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-01R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-01	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/06/23 18:11
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230106_14	Analyst	: LMV
Sample Amount	: 555.88 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	14.4	1.76	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.88	0.410	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.88	0.381	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.88	0.317	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.88	1.70	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	7.20	2.37	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	36.0	8.42	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	36.0	5.68	U

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Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

2

Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-02R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-02	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/06/23 18:24
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230106_15	Analyst	: LMV
Sample Amount	: 512.47 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	6.95	6.24	0.999	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	9.83	3.12	0.835	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	2.03	1.56	0.523	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.24	1.63	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	7.34	1.56	0.460	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.56	0.273	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	2.18	1.56	0.312	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	1.80	1.56	0.375	
335-67-1	Perfluorooctanoic Acid (PFOA)	9.99	1.56	0.679	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.24	2.11	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.56	0.421	U
375-95-1	Perfluorononanoic Acid (PFNA)	1.09	1.56	0.492	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	42.1	1.56	0.710	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.56	0.632	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.24	2.43	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.56	0.484	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.56	0.851	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.56	0.679	U

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Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

2

Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-02R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-02	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/06/23 18:24
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230106_15	Analyst	: LMV
Sample Amount	: 512.47 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.56	0.359	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.56	0.421	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.56	0.843	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.56	0.718	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.56	0.585	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.56	0.414	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.24	0.874	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.24	0.983	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.56	0.593	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.24	1.29	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.24	1.29	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.56	0.679	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.56	0.718	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	15.6	3.67	U

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Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

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Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-02R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-02	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/06/23 18:24
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230106_15	Analyst	: LMV
Sample Amount	: 512.47 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	15.6	1.91	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.12	0.445	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.12	0.414	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.12	0.343	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.12	1.84	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	7.80	2.58	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	39.0	9.13	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	39.0	6.16	U

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Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

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Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-03R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-03	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/05/23 14:25
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230105_11	Analyst	: PNB
Sample Amount	: 551.06 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	2.98	5.81	0.929	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	1.81	2.90	0.777	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.45	0.486	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.81	1.52	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	2.40	1.45	0.428	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.45	0.254	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.508	1.45	0.290	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.45	0.348	U
335-67-1	Perfluorooctanoic Acid (PFOA)	0.798	1.45	0.632	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.81	1.96	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.45	0.392	U
375-95-1	Perfluorononanoic Acid (PFNA)	2.47	1.45	0.457	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.45	0.660	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.45	0.588	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.81	2.26	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.45	0.450	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.45	0.791	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.45	0.632	U

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Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

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Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-03R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-03	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/05/23 14:25
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230105_11	Analyst	: PNB
Sample Amount	: 551.06 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.45	0.334	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.45	0.392	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.45	0.784	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.45	0.668	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.45	0.544	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.45	0.385	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.81	0.813	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.81	0.915	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.45	0.552	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.81	1.20	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.81	1.20	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.45	0.632	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.45	0.668	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	14.5	3.41	U

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Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

3

Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-03R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-03	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/05/23 14:25
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230105_11	Analyst	: PNB
Sample Amount	: 551.06 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	14.5	1.78	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.90	0.414	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.90	0.385	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.90	0.319	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.90	1.71	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	7.26	2.40	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	36.3	8.49	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	36.3	5.73	U

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Results Summary
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Perfluorinated Alkyl Acids by EPA 1633

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Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-04R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-04	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/05/23 15:03
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230105_14	Analyst	: PNB
Sample Amount	: 546.12 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	3.37	5.86	0.938	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	1.90	2.93	0.784	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.46	0.491	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.86	1.53	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	1.32	1.46	0.432	J
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.46	0.256	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.46	0.293	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.46	0.352	U
335-67-1	Perfluorooctanoic Acid (PFOA)	0.806	1.46	0.637	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.86	1.98	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.46	0.396	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.46	0.461	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.46	0.666	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.46	0.593	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.86	2.28	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.46	0.454	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.46	0.798	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.46	0.637	U

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Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

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Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-04R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-04	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/05/23 15:03
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230105_14	Analyst	: PNB
Sample Amount	: 546.12 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.46	0.337	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.46	0.396	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.46	0.791	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.46	0.674	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.46	0.549	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.46	0.388	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.86	0.820	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.86	0.923	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.46	0.557	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.86	1.21	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.86	1.21	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.46	0.637	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.46	0.674	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	14.6	3.44	U

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Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-04R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-04	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/05/23 15:03
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230105_14	Analyst	: PNB
Sample Amount	: 546.12 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	14.6	1.79	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.93	0.417	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.93	0.388	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.93	0.322	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.93	1.73	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	7.32	2.42	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	36.6	8.57	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	36.6	5.78	U

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Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-05R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-05	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/05/23 15:16
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230105_15	Analyst	: PNB
Sample Amount	: 503.09 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	6.36	1.02	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	3.18	0.851	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.59	0.533	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.36	1.66	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.59	0.469	U
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.59	0.278	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.59	0.318	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.59	0.382	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.59	0.692	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.36	2.15	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.59	0.429	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.59	0.501	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.59	0.724	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.59	0.644	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.36	2.47	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.59	0.493	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.59	0.867	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.59	0.692	U

MW 2/25/23

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Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-05R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-05	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/05/23 15:16
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230105_15	Analyst	: PNB
Sample Amount	: 503.09 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.59	0.366	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.59	0.429	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.59	0.859	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.59	0.731	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.59	0.596	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.59	0.421	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.36	0.890	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.36	1.00	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.59	0.604	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.36	1.31	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.36	1.31	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.59	0.692	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.59	0.731	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	15.9	3.74	U

MW 2/25/23

5

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Pace Analytical Services, LLC	Lab Number	: L2269855
Project Name	: 22L0503	Project Number	:
Lab ID	: L2269855-05R	Date Collected	: 12/01/22 09:30
Client ID	: 22L0503-05	Date Received	: 12/13/22
Sample Location	:	Date Analyzed	: 01/05/23 15:16
Sample Matrix	: WATER	Date Extracted	: 12/28/22
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_2230105_15	Analyst	: PNB
Sample Amount	: 503.09 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	15.9	1.95	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.18	0.453	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.18	0.421	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.18	0.350	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.18	1.88	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	7.95	2.62	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	39.8	9.30	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	39.8	6.27	U

NW 2/25/23

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
JACKS DRY CLEANERS, BREWERTON, NEW YORK

Client: Arcadis, Clifton Park, New York
SDG: 22L2164
Laboratory: Con-Test, East Longmeadow, Massachusetts
Site: Jacks Dry Cleaners, Brewerton, New York
Date: February 25, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-10	22L2164-01	Water
2*	TRIP BLANK	22L2164-02	Water

* - VOC only

A Data Usability Summary Review was performed on the analytical data for one water sample and one aqueous trip blank sample collected on December 14, 2022 by Arcadis at the Jacks Dry Cleaners site in Brewerton, New York. The samples were analyzed under Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions, and the Method for the Determination of Dissolved Gases in Water.

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260D
MEE	Method RSK 175

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries

- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D	Qualifier	Affected Samples
12/21/22 (1118)	Bromomethane	34.5%	UJ	1, 2
	Methyl Acetate	37.7%	UJ	
	Naphthalene	21.4%	UJ	

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations of methylene chloride, 2-butanone, toluene or acetone (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Sample ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TRIP BLANK	Chloroform	0.91	None	Sample ND

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	%R	Qualifier	Affected Samples
B326438-BS1	Methyl Acetate	133%	None	Samples ND

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Dissolved Gases (Methane, Ethane, Ethene)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field blank samples were not collected.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 2/27/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewrton, NY
Sample Description:
Work Order: 22L2164

Date Received: 12/15/2022

Field Sample #: MW-10
Sampled: 12/14/2022 13:20

Sample ID: 22L2164-01

Sample Matrix: Ground 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	12/21/22	12/21/22 15:13	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Bromomethane	ND UJ	2.0	1.5	µg/L	1	~~V-05~~	SW-846 8260D	12/21/22	12/21/22 15:13	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF

MW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewrton, NY | Sample Description: | Work Order: 22L2164

Date Received: 12/15/2022

Field Sample #: MW-10 | Sampled: 12/14/2022 13:20

Sample ID: 22L2164-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Methyl tert-Butyl Ether (MTBE)	1.0	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/21/22	12/21/22 15:13	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 15:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		12/21/22 15:13
Toluene-d8	101	70-130		12/21/22 15:13
4-Bromofluorobenzene	100	70-130		12/21/22 15:13

NW 2/25/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewrton, NY
Sample Description:
Work Order: 22L2164 2

Date Received: 12/15/2022

Field Sample #: Trip Blank
Sampled: 12/14/2022 00:00

Sample ID: 22L2164-02

Sample Matrix: Ground 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	12/21/22	12/21/22 13:55	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Bromomethane	ND UJ	2.0	1.5	µg/L	1	~~V-05~~	SW-846 8260D	12/21/22	12/21/22 13:55	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Chloroform	0.91	2.0	0.17	µg/L	1	J	SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF

MW 12/23/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewrton, NY
Sample Description:
Work Order: 22L2164

Date Received: 12/15/2022
Field Sample #: Trip Blank
Sampled: 12/14/2022 00:00
Sample ID: 22L2164-02
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	~~V-05~~	SW-846 8260D	12/21/22	12/21/22 13:55	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	12/21/22	12/21/22 13:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		12/21/22 13:55
Toluene-d8	102	70-130		12/21/22 13:55
4-Bromofluorobenzene	101	70-130		12/21/22 13:55

MW 12/5/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewrton, NY
Sample Description:
Work Order: 22L2164

Date Received: 12/15/2022

Field Sample #: MW-10
Sampled: 12/14/2022 13:20

Sample ID: 22L2164-01

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.035	0.014	0.0026	mg/L	1		RSK175	12/28/22	12/28/22 11:29	TPH
Ethene	ND	0.017	0.0030	mg/L	1		RSK175	12/28/22	12/28/22 11:29	TPH
Methane	5.0	0.0070	0.0012	mg/L	1		RSK175	12/28/22	12/28/22 11:29	TPH

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