



APTIM
150 Royall Street
Canton, MA 02021
www.Aptim.com

June 14, 2023

Project # 631010697

Mr. Joseph T. Martella, II
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, RI 02908-5767

**Subject: Status Report: December 2022 through May 2023 Activities
Former Gorham Manufacturing Facility
333 Adelaide Avenue, Providence, RI
Site Remediation Case No. 97-030**

Dear Mr. Martella:

Aptim Environmental & Infrastructure, LLC (APTIM), formerly CB&I Environmental & Infrastructure, Inc., has prepared this status report on behalf of Textron Inc. (Textron). This status report is associated with the remediation of tetrachloroethene (PCE) contaminated groundwater at the former Gorham Manufacturing Facility at 333 Adelaide Avenue, Providence, Rhode Island (**Figure 1**).

PCE is the primary contaminant of concern for groundwater in this area. As discussed in the Remedial Action Work Plan (RAWP) and subsequent revisions, the PCE source area in the vicinity of the former building W is the area of concern with a site-specific remedial goal of 7,700 micrograms per liter ($\mu\text{g/L}$). This area was treated using in-situ applications of sodium permanganate several years ago. **Figure 2** shows the most recent treatment area. Since 2013, a groundwater extraction and treatment system has operated at the site to mitigate the flow of impacted groundwater and improve overall site groundwater quality.

This status report describes groundwater monitoring activities conducted at the site by APTIM. This report includes results of groundwater sampling and analysis conducted in February and May of 2023.

Field Activities

Limited VOC Sampling Activities February and May 2023

Limited groundwater gauging and sampling was conducted on February 1, 2023 and May 1 and 2, 2023. Monitoring wells MW-112, MW-116D, and MW-116S were sampled for volatile organic compound (VOC) analysis. Groundwater elevation results for the gauging of these wells are included in **Table 2**.

Groundwater Sampling

Groundwater samples were collected for VOC analysis (EPA Method 8260D) from the three monitoring wells (MW-112, MW-116D, and MW-116S) on February 1 and May 1 and 2, 2023. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Semi-Annual Groundwater Sampling Activities May 2023

The monitoring wells that comprise the larger semi-annual groundwater monitoring program were monitored for field parameters and sampled for analysis on May 1 and 2, 2023.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on May 1 and 2, 2023. Field measurements included oxidation/reduction potential (ORP), dissolved oxygen (DO), pH, temperature, and specific conductance (SC). Groundwater elevation and LNAPL thickness measurements were also collected. Field parameter and groundwater elevation results are presented in **Tables 1** and **2**, respectively.

Semi-Annual Groundwater Sampling

On May 1 and 2, 2023 groundwater samples were collected for analysis for VOCs (EPA Method 8260D) from 22 monitoring wells within and around the treatment area, including the compliance wells. One duplicate sample was collected from MW-101S (MW-101S DUP) for VOC analysis. One primary and one duplicate sample was collected for total petroleum hydrocarbon (TPH) analysis (modified EPA Method 8015C) from monitoring well CW-6 (CW-6 DUP). Samples were also collected for dissolved lead analysis (EPA Method 6020B) from monitoring wells MW-109D and GZA-3. One duplicate sample was also collected from GZA-3 (GZA-3 DUP) for dissolved lead analysis. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Summary of Analytical Data

A summary of the analytical data associated with the groundwater sampling conducted on February 1, and May 1 and 2, 2023 is contained in **Table 3**. A copy of each laboratory analytical report is also attached to this report. Measured PCE concentrations were below the treatment goal of 7,700 µg/L in all wells sampled during these sampling events. During this reporting period the highest PCE concentrations were detected in wells MW-218D at 1,400 µg/L on May 1, 2023, and MW-101S and its duplicate (MW-101S DUP) at 240/250 µg/L, respectively, on May 1, 2023.

A summary of the compliance well results is contained in **Table 4**. The results for the compliance well sampling indicate there were no exceedances of the compliance standard for PCE at the Adelaide Avenue wells on February 1 or May 1, 2023. (Note that due to sample dilution by the laboratory, the analytical


reporting limits for vinyl chloride, in well MW-218S, on May 1, 2023, was above the compound specific compliance standard).

Future Activities

Future limited sampling will be conducted in August 2023 and the larger semi-annual sampling event will be conducted in November 2023.

If you have any questions regarding this report, please do not hesitate to contact me directly at 617-794-1767 or via e-mail at catherine.joe@aptim.com.

Respectfully submitted,
Aptim Environmental & Infrastructure, LLC



Catherine Joe
Project Manager

Attachments

Table 1 – Summary Field Parameters
Table 2 – Groundwater Elevation Data
Table 3 – Groundwater Analytical Results Detected Compounds – December 2022 – May 2023
Table 4 – Groundwater Analytical Results in Compliance Wells – December 2022 – May 2023

Figure 1 – Site Plan
Figure 2 – Injection Well Locations

Attachment A - Laboratory Analytical Reports

cc: Makala Fioritto - email
Greg Simpson, Textron - email
Mykel Mendes, WSP - email
Robert Azar, Providence Redevelopment Agency - email
Erin Bradley - Providence Redevelopment Agency - email
Al Buco, Paolino Properties - email

CERTIFICATIONS

The following certifications are provided pursuant to Rule 9.19 of the Remediation Regulations:

I, Catherine Joe, as an authorized representative of Aptim Environmental & Infrastructure, Inc., and the person responsible for the preparation of this Status Report dated June 14, 2023, certify that the information contained in this report is complete and accurate to the best of my knowledge.



Catherine Joe
Project Manager

6/14/2023
Date:

We, Textron, Inc., as the party responsible for submittal of this Status Report, certify that this report is a complete and accurate representation of the contaminated site and the release, and contains all known facts surrounding the release, to the best of our knowledge.

Certification on behalf of Textron Inc.



Makala Fioritto
Project Manager

06/19/2023
Date:

TABLES

Table 1
Summary Field Parameters
December 2022 - May 2023

Former Gorham Manufacturing Facility
Providence, Rhode Island

Location	Date	Dissolved Oxygen mg/L	Oxidation Reduction Potential mV	pH unit	Specific Conductivity ms/cm	Temperature C
MW-101D	05/01/2023	1.66	188.6	4.97	0.066	14.66
MW-101S	05/01/2023	0.52	142.7	5.72	0.31	15.44
MW-112	05/01/2023	5.68	200.1	6.01	0.701	14.33
MW-116D	05/02/2023	5.76	177.4	5.67	0.115	14.65
MW-116S	05/02/2023	5.9	200.5	5.5	0.136	14.75
MW-201D	05/01/2023	2.46	225.4	5.22	0.019	15.33
MW-202D	05/01/2023	3.22	276.1	4.16	0.026	15.93
MW-202S	05/01/2023	4.83	240.8	6.23	0.645	15.7
MW-207D	05/01/2023	3.01	175.2	5.83	0.027	15.87
MW-207S	05/01/2023	1.88	138	7.03	0.305	16.01
MW-209D	05/01/2023	4.02	193.5	5.95	0.043	14.44
MW-216D	05/01/2023	1.12	88.1	6.7	0.709	16.27
MW-216S	05/01/2023	0.72	63.4	6.22	1.186	15.73
MW-217D	05/01/2023	3.55	30.8	6.05	0.144	15.55
MW-217S	05/01/2023	1.05	29.1	6.88	1.625	15.46
MW-218D	05/01/2023	3.72	207.6	6.06	0.674	14.31
MW-218S	05/01/2023	4.18	219.3	6.2	0.623	14.15

Notes:
C° = degrees Celsius
mS/cm = millisiemens per centimeter
mg/L = milligrams per liter
mV = milli volts

TABLE 2
GROUNDWATER ELEVATION DATA
(December 2022 - May 2023)
Former Gorham Manufacturing Facility
Providence, Rhode Island

Location	Date	Reference Elevation (Feet)	Depth to Water (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Groundwater Elevation (Feet)	Note
CW-01	5/2/2023	99.52	24.23	---	---	75.29	DTB = 55.60 FT
CW-02	5/2/2023	98.86	24.40	---	---	74.46	DTB = 54.75 FT
CW-06	5/2/2023	99.52	23.30	---	---	76.22	DTB = 33.31 FT
GZA-3	5/2/2023	NM	15.10	---	---	NA	DTB = 22.19 FT
MW-101D	5/1/2023	98.91	23.92	---	---	74.99	DTB = 45.68 FT
MW-101S	5/1/2023	98.90	23.68	---	---	75.22	DTB = 28.60 FT
MW-109D	5/2/2023	NM	17.50	---	---	NA	DTB = 74.80 FT
MW-112	2/1/2023	100.63	18.52	---	---	82.11	DTB = 34.90 FT
	5/1/2023	100.63	25.39	---	---	75.24	DTB = 34.71 FT
MW-116D	2/1/2023	98.92	10.95	---	---	87.97	DTB = 44.15 FT
	5/2/2023	98.92	21.62	---	---	77.30	DTB = 44.05 FT
MW-116S	2/1/2023	99.40	18.03	---	---	81.37	DTB = 28.80 FT
	5/2/2023	99.40	23.69	---	---	75.71	DTB = 25.80 FT
MW-201D	5/1/2023	98.80	23.75	---	---	75.05	DTB = 47.36 FT
MW-202D	5/1/2023	98.17	23.17	---	---	75.00	DTB = 46.52 FT
MW-202S	5/1/2023	98.06	23.46	---	---	74.60	DTB = 38.05 FT
MW-207D	5/1/2023	98.18	23.15	---	---	75.03	DTB = 50.45 FT
MW-207S	5/1/2023	98.28	23.10	---	---	75.18	DTB = 36.02 FT
MW-209D	5/1/2023	99.90	24.93	---	---	74.97	DTB = 62.20 FT
MW-216D	5/1/2023	98.69	24.24	---	---	74.45	DTB = 37.31 FT
MW-216S	5/1/2023	99.58	24.20	---	---	75.38	DTB = 29.75 FT
MW-217D	5/1/2023	98.65	23.35	---	---	75.30	DTB = 47.01 FT
MW-217S	5/1/2023	98.71	23.40	---	---	75.31	DTB = 26.31 FT
MW-218D	5/1/2023	99.67	24.21	---	---	75.46	DTB = 45.75 FT
MW-218S	5/1/2023	99.61	24.43	---	---	75.18	DTB = 29.58 FT
MW-220S	5/2/2023	99.41	22.57	---	---	76.84	DTB = 37.22 FT
MW-221S	5/2/2023	98.92	22.85	---	<0.01	76.07	

Notes:

Feet = feet measured below ground surface

NA = Not Available

NM = Not Measured

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2022 - May 2023

Former Gorham Manufacturing Facility
 Providence, Rhode Island

Parameter	Location Code	CW-01	CW-02	CW-06		GZA-3		MW-101D	MW-101S		MW-109D	MW-112	
	Sample ID	CW-1-20230502	CW-2-20230502	CW-6-20230502	CW-6-20230502DUP	GZA-3-20230502	GZA-3-20230502DUP	MW-101D-20230501	MW-101S-20230501	MW-101SDUP-20230501	MW-109D-20230502	MW-112-2023021	MW-112-20230501
	Sample Date	5/2/2023	5/2/2023	5/2/2023	5/2/2023	5/2/2023	5/2/2023	5/1/2023	5/1/2023	5/1/2023	5/2/2023	2/1/2023	5/1/2023
	Sample Purpose	N	N	N	FD	N	FD	N	N	FD	N	N	N
Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOLATILES													
1,1-Dichloroethene	µg/L	5.6	< 1	--	--	< 1	--	< 1	< 4	< 4	< 1	< 1	< 1
1,2,4-Trimethylbenzene	µg/L	< 5	< 1	--	--	< 1	--	< 1	< 4	< 4	< 1	< 1	< 1
cis-1,2-Dichloroethene	µg/L	43	< 1	--	--	< 1	--	< 1	< 4	< 4	< 1	< 1	< 1
Methyltert-butylether	µg/L	< 5	1.9	--	--	< 1	--	< 1	< 4	< 4	< 1	< 1	< 1
Naphthalene	µg/L	< 10	< 2	--	--	< 2	--	< 2	< 8	< 8	< 2	< 2	< 2
o-Xylene	µg/L	< 5	< 1	--	--	< 1	--	< 1	< 4	< 4	< 1	< 1	< 1
Tetrachloroethene	µg/L	< 5	< 1	--	--	< 1	--	2.5	240	250	< 1	27	25
trans-1,2-Dichloroethene	µg/L	5.8	< 1	--	--	< 1	--	< 1	< 4	< 4	< 1	< 1	< 1
Trichloroethene	µg/L	450	< 1	--	--	3.1	--	< 1	6.2	6.1	1.4	1.2	1.1
Xylene (total)	µg/L	< 5	< 1	--	--	< 1	--	< 1	< 4	< 4	< 1	< 1	< 1
TPH													
TPH	mg/L	--	--	7.2	7.5	--	--	--	--	--	--	--	--
METALS, DISSOLVED													
Lead	µg/L	--	--	--	--	< 0.5	< 0.5	--	--	--	< 0.5	--	--

Notes: < = Less than the laboratory reporting limit
 µg/L = Micrograms per liter, parts per billion
 mg/L = Milligrams per liter
 TPH = Total Petroleum Hydrocarbons
 -- = Not analyzed for
 N = Primary sample
 FD = Field Duplicate

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2022 - May 2023

Former Gorham Manufacturing Facility
 Providence, Rhode Island

	Location Code	MW-116D		MW-116S		MW-201D	MW-202D	MW-202S	MW-207D	MW-207S	MW-209D	MW-216D	MW-216S	MW-217D	
	Sample ID	MW-116D-2023021	MW-116D-20230502	MW-116S-2023021	MW-116S-20230502	MW-201D-20230501	MW-202D-20230501	MW-202S-20230501	MW-207D-20230501	MW-207S-20230501	MW-209D-20230501	MW-216D-20230501	MW-216S-20230501	MW-217D-20230501	
	Sample Date	2/1/2023	5/2/2023	2/1/2023	5/2/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023
	Sample Purpose	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
VOLATILES															
1,1-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1	
1,2,4-Trimethylbenzene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4.2	< 1	
cis-1,2-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	18	< 1	< 1	< 1	< 1	5	< 1	4.6	2.1	
Methyltert-butylether	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1	
Naphthalene	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	11	< 2	
o-Xylene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4	< 1	
Tetrachloroethene	µg/L	< 1	< 1	< 1	< 1	54	< 1	4.7	< 1	< 1	40	< 1	< 2	< 1	
trans-1,2-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1	
Trichloroethene	µg/L	< 1	< 1	< 1	< 1	11	< 1	< 1	< 1	< 1	11	< 1	< 2	1.3	
Xylene (total)	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4	< 1	
TPH															
TPH	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	
METALS, DISSOLVED															
Lead	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	

Notes: < = Less than the laboratory reporting limit
 µg/L = Micrograms per liter, parts per billion
 mg/L = Milligrams per liter
 TPH = Total Petroleum Hydrocarbons
 -- = Not analyzed for
 N = Primary sample
 FD = Field Duplicate

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2022 - May 2023

Former Gorham Manufacturing Facility
 Providence, Rhode Island

	Location Code	MW-217S	MW-218D	MW-218S
	Sample ID	MW-217S-20230501	MW-218D-20230501	MW-218S-20230501
	Sample Date	5/1/2023	5/1/2023	5/1/2023
	Sample Purpose	N	N	N
Parameter	Units	Result	Result	Result
VOLATILES				
1,1-Dichloroethene	µg/L	< 2	< 20	< 2
1,2,4-Trimethylbenzene	µg/L	< 2	< 20	< 2
cis-1,2-Dichloroethene	µg/L	2.7	60	< 2
Methyltert-butylether	µg/L	< 2	< 20	< 2
Naphthalene	µg/L	< 4	< 40	< 4
o-Xylene	µg/L	< 2	< 20	< 2
Tetrachloroethene	µg/L	< 2	1400	130
trans-1,2-Dichloroethene	µg/L	< 2	< 20	< 2
Trichloroethene	µg/L	2.3	310	< 2
Xylene (total)	µg/L	< 2	< 20	< 2
TPH				
TPH	mg/L	---	---	---
METALS, DISSOLVED				
Lead	µg/L	---	---	---

Notes: < = Less than the laboratory reporting limit
 µg/L = Micrograms per liter, parts per billion
 mg/L = Milligrams per liter
 TPH = Total Petroleum Hydrocarbons
 -- = Not analyzed for
 N = Primary sample
 FD = Field Duplicate

TABLE 4
Groundwater Analytical Results
December 2022 - May 2023

Former Gorham Manufacturing Facility
 Providence, Rhode Island

Mashapaug Pond Compliance Wells				
Sample ID	GZA-3	GZA-3	MW-109D	Compliance
Date Collected	5/2/2023	5/2/2023	5/2/2023	Standard ¹
CONSTITUENT	Primary	Duplicate 1	Primary	
Metals (mg/L)				
Lead	<0.0005	<0.0005	<0.0005	0.03
VOCs (µg/L)				
1,1-Dichloroethane	< 1	--	< 1	50,000
1,1-Dichloroethene	< 1	--	< 1	50,000
cis-1,2-Dichloroethene	< 1	--	< 1	50,000
Methyl tert-butyl ether	< 1	--	< 1	50,000
Tetrachloroethene	< 1	--	< 1	5,000
Trichloroethene	3.1	--	1.4	20,000
Vinyl chloride	<2	--	< 2	1,200

TPH Remediation Area Well			
Sample ID	CW-06	CW-06	Compliance
Date Collected	5/2/2023	5/2/2023	Standard ¹
CONSTITUENT	Primary	Duplicate	
TPH (mg/L)			
TPH	7.2	7.5	20

Sewer Interceptor Area Wells			
Sample ID	CW-01	CW-02	Compliance
Date Collected	5/2/2023	5/2/2023	Standard ²
CONSTITUENT	Primary	Primary	
VOCs (µg/L)			
1,1-Dichloroethane	<5	< 1	120,000
1,1-Dichloroethene	5.6	< 1	23,000
cis-1,2-Dichloroethene	43	< 1	69,000
trans-1,2-Dichloroethene	5.8	< 1	79,000
Tetrachloroethene	<5	< 1	NS
Trichloroethene	450	< 1	87,000

Adelaide Avenue Wells					
Sample ID	MW-112	MW-112	MW-209D	MW-218S	Compliance
Date Collected	2/1/2023	5/1/2023	5/1/2023	5/1/2023	Standard ³
CONSTITUENT	Primary	Primary	Primary	Primary	
VOCs (µg/L)					
1,1-Dichloroethane	< 1	< 1	< 1	< 2	2,400
1,1-Dichloroethene	< 1	< 1	< 1	< 2	7
cis-1,2-Dichloroethene	< 1	< 1	5	< 2	1,900
Methyl tert-butyl ether	< 1	< 1	< 1	< 2	5,000
Tetrachloroethene	27	25	40	130	150
Trichloroethene	1.2	1.1	11	< 2	540
Vinyl chloride	< 2	< 2	< 2	< 4	2

1. These site specific compliance standards were taken from the approved RAWP dated April 1, 2001 and/or the RIDEM Remediation Regulations.
 Note: The standard for Methyl tert-butyl ether is the Massachusetts Department of Environmental Protection (MassDEP) Method 1 GW-3 standard (310 CMR 40.0974 (2), 12/14/07. The use of the MassDEP Method 1 GW-3 standard is consistent with the approach used in the April 1, 2001 RAWP.

2. These compliance standards taken from Table 5 - Upper Concentration Limits for GB Groundwater, RIDEM Remediation Regulations.

3. These compliance standards taken from Table 4 - GB Groundwater Objectives of the RIDEM Remediation Regulations or in the case of vinyl chloride the compliance standard was taken from Table 3 of the Remediation Regulations and for chloroform the compliance standard was calculated from the algorithm in Appendix F of the Remediation Regulations (calculations attached as Appendix C of Status Report dated September 18, 2007.

NS = Indicates that no applicable standard exists. Compound does not have a lower explosive limit (LEL).

< = Less than the laboratory reporting limit

µg/L = Micrograms per liter, parts per billion

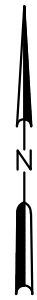
mg/L = Milligrams per liter, parts per million

TPH = Total Petroleum Hydrocarbons

VOCs = Volatile organic compounds

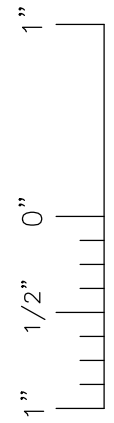
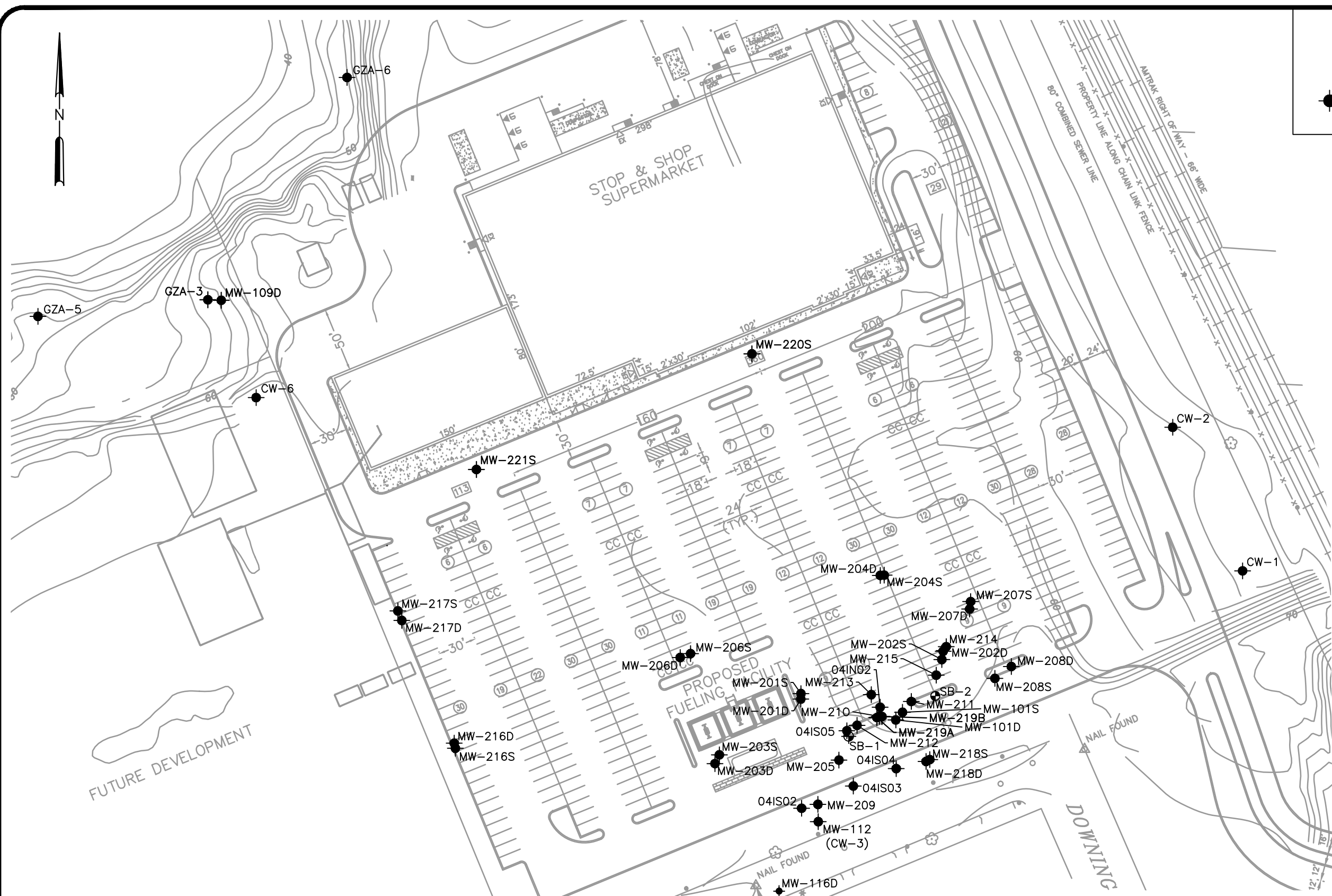
-- = Not analyzed for

FIGURES

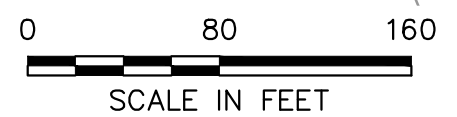


LEGEND

MW-101S MONITORING WELL






File: L:\dwg\Corham\cntgf-02.dwg Layout: SP User: chris.desiata Jan 08, 2018 - 3:30pm

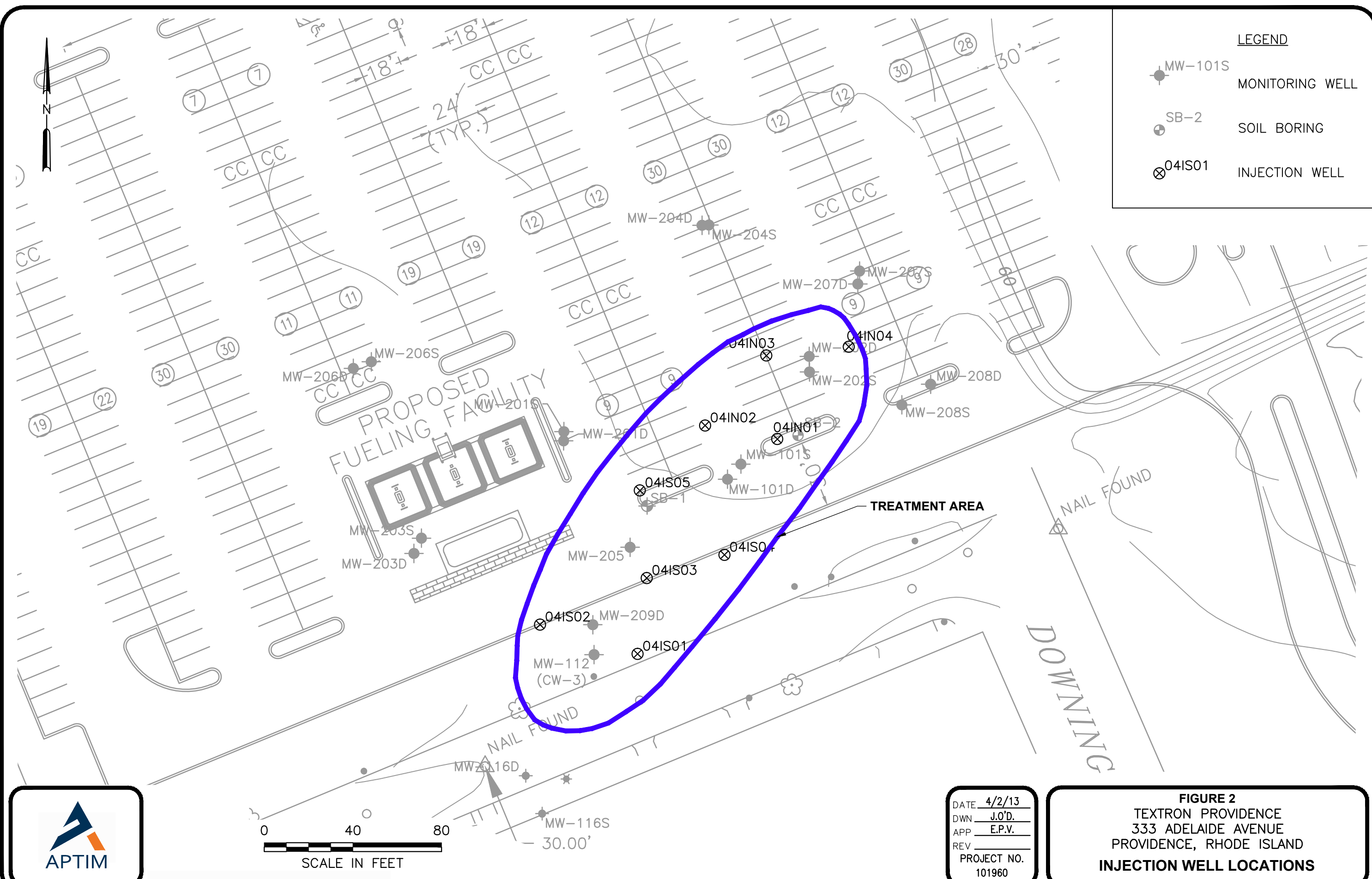


DATE	4/2/13
DWN	J.O'D.
APP	
REV	
PROJECT NO.	101960

FIGURE 1
TEXTRON PROVIDENCE
333 ADELAIDE AVENUE
PROVIDENCE, RHODE ISLAND
SITE PLAN

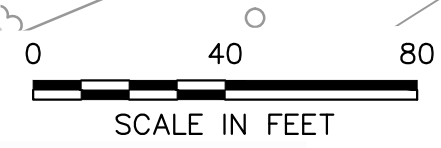
LEGEND

-  MW-101S MONITORING WELL
-  SB-2 SOIL BORING
-  04IS01 INJECTION WELL



1" 1/2" 0" 1"

File: L:\dwg\Gorham\entg-01.dwg Layout: Inj well User: chris.desiata Jan 08, 2018 - 3:37pm



DATE 4/2/13
 DWN J.O'D.
 APP E.P.V.
 REV
 PROJECT NO. 101960

FIGURE 2
 TEXTRON PROVIDENCE
 333 ADELAIDE AVENUE
 PROVIDENCE, RHODE ISLAND
INJECTION WELL LOCATIONS

ATTACHMENT A
LABORATORY REPORTS

February 10, 2023

Catherine Joe Mainville
APTIM - MA
150 Royall Street
Canton, MA 02021

Project Location: 333 Adelaide Ave., Providence, RI
Client Job Number:
Project Number: 631010697
Laboratory Work Order Number: 23B0523

Enclosed are results of analyses for samples as received by the laboratory on February 2, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Theresa L. Ferrentino
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
23B0523-01	5
23B0523-02	7
23B0523-03	9
Sample Preparation Information	11
QC Data	12
Volatile Organic Compounds by GC/MS	12
B330725	12
Flag/Qualifier Summary	17
Certifications	18
Chain of Custody/Sample Receipt	20

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

APTIM - MA
150 Royall Street
Canton, MA 02021
ATTN: Catherine Joe Mainville

REPORT DATE: 2/10/2023

PURCHASE ORDER NUMBER: 216859

PROJECT NUMBER: 631010697

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23B0523

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

PROJECT LOCATION: 333 Adelaide Ave., Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-112-2023021	23B0523-01	Ground Water		SW-846 8260D	
MW-116S-2023021	23B0523-02	Ground Water		SW-846 8260D	
MW-116D-2023021	23B0523-03	Ground Water		SW-846 8260D	

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-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:

Naphthalene

B330725-BS1, B330725-BSD1, S082952-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:

Acetone

23B0523-01[MW-112-2023021], 23B0523-02[MW-116S-2023021], 23B0523-03[MW-116D-2023021], B330725-BLK1, B330725-BS1, B330725-BSD1, S082952-CCV1

Bromomethane

23B0523-01[MW-112-2023021], 23B0523-02[MW-116S-2023021], 23B0523-03[MW-116D-2023021], B330725-BLK1, B330725-BS1, B330725-BSD1, S082952-CCV1

Chloromethane

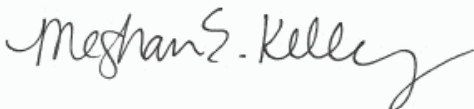
23B0523-01[MW-112-2023021], 23B0523-02[MW-116S-2023021], 23B0523-03[MW-116D-2023021], B330725-BLK1, B330725-BS1, B330725-BSD1, S082952-CCV1

Vinyl Chloride

23B0523-01[MW-112-2023021], 23B0523-02[MW-116S-2023021], 23B0523-03[MW-116D-2023021], B330725-BLK1, B330725-BS1, B330725-BSD1, S082952-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 23B0523

Date Received: 2/2/2023

Field Sample #: MW-112-2023021

Sampled: 2/1/2023 10:00

Sample ID: 23B0523-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 16:29	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 16:29	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 23B0523

Date Received: 2/2/2023

Field Sample #: MW-112-2023021

Sampled: 2/1/2023 10:00

Sample ID: 23B0523-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Tetrachloroethylene	27	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Trichloroethylene	1.2	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Vinyl Chloride	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 16:29	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:29	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	110	70-130	2/7/23 16:29
Toluene-d8	99.6	70-130	2/7/23 16:29
4-Bromofluorobenzene	91.9	70-130	2/7/23 16:29

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 23B0523

Date Received: 2/2/2023

Field Sample #: MW-116S-2023021

Sampled: 2/1/2023 11:00

Sample ID: 23B0523-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 16:56	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 16:56	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 23B0523

Date Received: 2/2/2023

Field Sample #: MW-116S-2023021

Sampled: 2/1/2023 11:00

Sample ID: 23B0523-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Vinyl Chloride	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 16:56	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 16:56	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	112	70-130	2/7/23 16:56
Toluene-d8	99.7	70-130	2/7/23 16:56
4-Bromofluorobenzene	89.7	70-130	2/7/23 16:56

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 23B0523

Date Received: 2/2/2023

Field Sample #: MW-116D-2023021

Sampled: 2/1/2023 12:00

Sample ID: 23B0523-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 17:24	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 17:24	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 23B0523

Date Received: 2/2/2023

Field Sample #: MW-116D-2023021

Sampled: 2/1/2023 12:00

Sample ID: 23B0523-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Vinyl Chloride	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/7/23	2/7/23 17:24	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	2/7/23	2/7/23 17:24	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	2/7/23 17:24
Toluene-d8	99.5	70-130	2/7/23 17:24
4-Bromofluorobenzene	89.0	70-130	2/7/23 17:24

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23B0523-01 [MW-112-2023021]	B330725	5	5.00	02/07/23
23B0523-02 [MW-116S-2023021]	B330725	5	5.00	02/07/23
23B0523-03 [MW-116D-2023021]	B330725	5	5.00	02/07/23

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 B330725 - SW-846 5030B										
Blank (B330725-BLK1)										
Prepared & Analyzed: 02/07/23										
Acetone	ND	50	µg/L							V-05
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							V-05
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							

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 B330725 - SW-846 5030B										
Blank (B330725-BLK1)										
Prepared & Analyzed: 02/07/23										
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							V-05
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	27.3		µg/L	25.0		109	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	23.0		µg/L	25.0		91.9	70-130			
LCS (B330725-BS1)										
Prepared & Analyzed: 02/07/23										
Acetone	75.1	50	µg/L	100		75.1	70-160			V-05 †
Acrylonitrile	10.5	5.0	µg/L	10.0		105	70-130			
tert-Amyl Methyl Ether (TAME)	10.3	0.50	µg/L	10.0		103	70-130			
Benzene	10.6	1.0	µg/L	10.0		106	70-130			
Bromobenzene	10.2	1.0	µg/L	10.0		102	70-130			
Bromochloromethane	10.0	1.0	µg/L	10.0		100	70-130			
Bromodichloromethane	10.0	0.50	µg/L	10.0		100	70-130			
Bromoform	8.67	1.0	µg/L	10.0		86.7	70-130			
Bromomethane	5.39	2.0	µg/L	10.0		53.9	40-160			V-05 †
2-Butanone (MEK)	104	20	µg/L	100		104	40-160			†
tert-Butyl Alcohol (TBA)	113	20	µg/L	100		113	40-160			†
n-Butylbenzene	11.7	1.0	µg/L	10.0		117	70-130			
sec-Butylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.5	0.50	µg/L	10.0		105	70-130			
Carbon Disulfide	102	5.0	µg/L	100		102	70-130			
Carbon Tetrachloride	11.4	5.0	µg/L	10.0		114	70-130			
Chlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102	70-130			
Chloroethane	8.06	2.0	µg/L	10.0		80.6	70-130			

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 B330725 - SW-846 5030B										
LCS (B330725-BS1)										
Prepared & Analyzed: 02/07/23										
Chloroform	9.43	2.0	µg/L	10.0		94.3	70-130			
Chloromethane	6.59	2.0	µg/L	10.0		65.9	40-160			V-05 †
2-Chlorotoluene	9.35	1.0	µg/L	10.0		93.5	70-130			
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.6	5.0	µg/L	10.0		116	70-130			
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130			
Dibromomethane	9.90	1.0	µg/L	10.0		99.0	70-130			
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
trans-1,4-Dichloro-2-butene	10.9	2.0	µg/L	10.0		109	70-130			
Dichlorodifluoromethane (Freon 12)	8.46	2.0	µg/L	10.0		84.6	40-160			†
1,1-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130			
1,2-Dichloroethane	9.17	1.0	µg/L	10.0		91.7	70-130			
1,1-Dichloroethylene	9.31	1.0	µg/L	10.0		93.1	70-130			
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
trans-1,2-Dichloroethylene	9.92	1.0	µg/L	10.0		99.2	70-130			
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	70-130			
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130			
2,2-Dichloropropane	10.7	1.0	µg/L	10.0		107	40-130			†
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107	70-130			
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130			
trans-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130			
Diethyl Ether	8.58	2.0	µg/L	10.0		85.8	70-130			
Diisopropyl Ether (DIPE)	10.5	0.50	µg/L	10.0		105	70-130			
1,4-Dioxane	82.6	50	µg/L	100		82.6	40-130			†
Ethylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
Hexachlorobutadiene	11.6	0.60	µg/L	10.0		116	70-130			
2-Hexanone (MBK)	111	10	µg/L	100		111	70-160			†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130			
p-Isopropyltoluene (p-Cymene)	11.3	1.0	µg/L	10.0		113	70-130			
Methyl Acetate	7.95	1.0	µg/L	10.0		79.5	70-130			
Methyl tert-Butyl Ether (MTBE)	9.96	1.0	µg/L	10.0		99.6	70-130			
Methyl Cyclohexane	10.5	1.0	µg/L	10.0		105	70-130			
Methylene Chloride	10.9	5.0	µg/L	10.0		109	70-130			
4-Methyl-2-pentanone (MIBK)	108	10	µg/L	100		108	70-160			†
Naphthalene	13.2	2.0	µg/L	10.0		132 *	40-130			L-06 †
n-Propylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
Styrene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101	70-130			
1,1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130			
Tetrachloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
Tetrahydrofuran	9.65	10	µg/L	10.0		96.5	70-130			
Toluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	12.9	5.0	µg/L	10.0		129	70-130			
1,2,4-Trichlorobenzene	12.2	1.0	µg/L	10.0		122	70-130			
1,3,5-Trichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130			
Trichloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
Trichlorofluoromethane (Freon 11)	8.52	2.0	µg/L	10.0		85.2	70-130			
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0		103	70-130			

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 B330725 - SW-846 5030B
LCS (B330725-BS1)

Prepared & Analyzed: 02/07/23

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9	1.0	µg/L	10.0		109	70-130			
1,2,4-Trimethylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Vinyl Chloride	7.62	2.0	µg/L	10.0		76.2	40-160			V-05 †
m+p Xylene	21.5	2.0	µg/L	20.0		107	70-130			
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130			
Xylenes (total)	31.9	1.0	µg/L	30.0		106	0-200			
Surrogate: 1,2-Dichloroethane-d4	27.3		µg/L	25.0		109	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	23.1		µg/L	25.0		92.5	70-130			

LCS Dup (B330725-BSD1)

Prepared & Analyzed: 02/07/23

Acetone	72.9	50	µg/L	100		72.9	70-160	2.92	25	V-05 †
Acrylonitrile	10.2	5.0	µg/L	10.0		102	70-130	3.00	25	
tert-Amyl Methyl Ether (TAME)	10.1	0.50	µg/L	10.0		101	70-130	1.57	25	
Benzene	10.3	1.0	µg/L	10.0		103	70-130	2.11	25	
Bromobenzene	9.89	1.0	µg/L	10.0		98.9	70-130	2.89	25	
Bromochloromethane	9.74	1.0	µg/L	10.0		97.4	70-130	2.83	25	
Bromodichloromethane	9.54	0.50	µg/L	10.0		95.4	70-130	5.11	25	
Bromoform	8.37	1.0	µg/L	10.0		83.7	70-130	3.52	25	
Bromomethane	5.65	2.0	µg/L	10.0		56.5	40-160	4.71	25	V-05 †
2-Butanone (MEK)	111	20	µg/L	100		111	40-160	5.85	25	†
tert-Butyl Alcohol (TBA)	111	20	µg/L	100		111	40-160	1.78	25	†
n-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130	4.74	25	
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	4.63	25	
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130	3.61	25	
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0		101	70-130	3.20	25	
Carbon Disulfide	111	5.0	µg/L	100		111	70-130	8.72	25	
Carbon Tetrachloride	11.1	5.0	µg/L	10.0		111	70-130	1.96	25	
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	0.881	25	
Chlorodibromomethane	9.83	0.50	µg/L	10.0		98.3	70-130	3.40	25	
Chloroethane	7.67	2.0	µg/L	10.0		76.7	70-130	4.96	25	
Chloroform	9.42	2.0	µg/L	10.0		94.2	70-130	0.106	25	
Chloromethane	7.22	2.0	µg/L	10.0		72.2	40-160	9.12	25	V-05 †
2-Chlorotoluene	9.37	1.0	µg/L	10.0		93.7	70-130	0.214	25	
4-Chlorotoluene	9.89	1.0	µg/L	10.0		98.9	70-130	2.10	25	
1,2-Dibromo-3-chloropropane (DBCP)	11.2	5.0	µg/L	10.0		112	70-130	3.94	25	
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100	70-130	0.496	25	
Dibromomethane	9.81	1.0	µg/L	10.0		98.1	70-130	0.913	25	
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	4.09	25	
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	3.43	25	
1,4-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130	4.76	25	
trans-1,4-Dichloro-2-butene	10.8	2.0	µg/L	10.0		108	70-130	0.553	25	
Dichlorodifluoromethane (Freon 12)	8.19	2.0	µg/L	10.0		81.9	40-160	3.24	25	†
1,1-Dichloroethane	9.91	1.0	µg/L	10.0		99.1	70-130	1.20	25	
1,2-Dichloroethane	8.91	1.0	µg/L	10.0		89.1	70-130	2.88	25	
1,1-Dichloroethylene	8.84	1.0	µg/L	10.0		88.4	70-130	5.18	25	
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	3.23	25	
trans-1,2-Dichloroethylene	9.60	1.0	µg/L	10.0		96.0	70-130	3.28	25	
1,2-Dichloropropane	9.58	1.0	µg/L	10.0		95.8	70-130	5.48	25	
1,3-Dichloropropane	10.0	0.50	µg/L	10.0		100	70-130	2.66	25	
2,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	40-130	4.02	25	†

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 B330725 - SW-846 5030B										
LCS Dup (B330725-BSD1)										
Prepared & Analyzed: 02/07/23										
1,1-Dichloropropene	10.1	2.0	µg/L	10.0		101	70-130	6.44	25	
cis-1,3-Dichloropropene	9.99	0.50	µg/L	10.0		99.9	70-130	3.06	25	
trans-1,3-Dichloropropene	9.85	0.50	µg/L	10.0		98.5	70-130	4.08	25	
Diethyl Ether	8.08	2.0	µg/L	10.0		80.8	70-130	6.00	25	
Diisopropyl Ether (DIPE)	10.2	0.50	µg/L	10.0		102	70-130	2.22	25	
1,4-Dioxane	88.3	50	µg/L	100		88.3	40-130	6.58	50	† ‡
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	2.55	25	
Hexachlorobutadiene	10.8	0.60	µg/L	10.0		108	70-130	7.13	25	
2-Hexanone (MBK)	112	10	µg/L	100		112	70-160	0.548	25	†
Isopropylbenzene (Cumene)	9.99	1.0	µg/L	10.0		99.9	70-130	1.98	25	
p-Isopropyltoluene (p-Cymene)	10.7	1.0	µg/L	10.0		107	70-130	4.91	25	
Methyl Acetate	9.23	1.0	µg/L	10.0		92.3	70-130	14.9	25	
Methyl tert-Butyl Ether (MTBE)	9.82	1.0	µg/L	10.0		98.2	70-130	1.42	25	
Methyl Cyclohexane	10.2	1.0	µg/L	10.0		102	70-130	3.18	25	
Methylene Chloride	10.4	5.0	µg/L	10.0		104	70-130	5.45	25	
4-Methyl-2-pentanone (MIBK)	108	10	µg/L	100		108	70-160	0.148	25	†
Naphthalene	13.1	2.0	µg/L	10.0		131 *	40-130	0.989	25	L-06 †
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130	3.19	25	
Styrene	10.2	1.0	µg/L	10.0		102	70-130	0.685	25	
1,1,1,2-Tetrachloroethane	9.96	1.0	µg/L	10.0		99.6	70-130	1.69	25	
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130	0.965	25	
Tetrachloroethylene	10.0	1.0	µg/L	10.0		100	70-130	0.796	25	
Tetrahydrofuran	9.68	10	µg/L	10.0		96.8	70-130	0.310	25	
Toluene	10.3	1.0	µg/L	10.0		103	70-130	2.11	25	
1,2,3-Trichlorobenzene	12.6	5.0	µg/L	10.0		126	70-130	2.82	25	
1,2,4-Trichlorobenzene	11.6	1.0	µg/L	10.0		116	70-130	5.47	25	
1,3,5-Trichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	4.02	25	
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	3.07	25	
1,1,2-Trichloroethane	9.76	1.0	µg/L	10.0		97.6	70-130	3.32	25	
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	0.695	25	
Trichlorofluoromethane (Freon 11)	8.14	2.0	µg/L	10.0		81.4	70-130	4.56	25	
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104	70-130	0.290	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.0		104	70-130	4.40	25	
1,2,4-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130	2.97	25	
1,3,5-Trimethylbenzene	9.88	1.0	µg/L	10.0		98.8	70-130	3.77	25	
Vinyl Chloride	7.23	2.0	µg/L	10.0		72.3	40-160	5.25	25	V-05 †
m+p Xylene	21.0	2.0	µg/L	20.0		105	70-130	2.12	25	
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130	0.0954	25	
Xylenes (total)	31.5	1.0	µg/L	30.0		105	0-200	1.39		
Surrogate: 1,2-Dichloroethane-d4	27.3		µg/L	25.0		109	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	23.3		µg/L	25.0		93.4	70-130			

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
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.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
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
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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
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
Xylenes (total)	ME,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-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

2310523

TFF

Page 1 of 1

Doc # 381 Rev 5_07/13/2021

Pace Analytical
 Phone: 413-525-2332
 Fax: 413-525-6405
 Access COCs and Support Requests
<http://www.pacelabs.com>

CHAIN OF CUSTODY RECORD
 39 Spruce Street
 East Longmeadow, MA 01028

Company Name: APDM
Address: 180 Royal St Canton MA 02002
Phone: 617-794-1767
Project Name: TEXORON PROVIENCE
Project Location: 333 ADELARDE AVE PROVIENCE
Project Number: 63010697
Project Manager: CATHERINE JOE
Pace Quote Name/Number: PO 216859
Invoice Recipient:
Sampled By: DANIEL S. LANNY 617-212-8216

ANALYSIS REQUESTED

Requested Analyte	7-Day PFAS 10-Day (std)	10-Day Due Date	Field Filtered	Field Filtered Lab to Filter	Orthophosphate Samples	Field Filtered Lab to Filter	PCB ONLY	SOXHLET	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	Preservation Code	Counter Use Only
MA-12-2023031	<input checked="" type="checkbox"/>	2/10/23	<input checked="" type="checkbox"/>						2						
MA-165-2023021	<input checked="" type="checkbox"/>	2/10/23	<input checked="" type="checkbox"/>						2						
MA-1160-2023021	<input checked="" type="checkbox"/>	2/10/23	<input checked="" type="checkbox"/>						2						

Requested Analyte: Disinfection By-Products
Request: Field Filtered
Due Date: 2/10/23
Field Filtered: Lab to Filter
Orthophosphate Samples: Field Filtered
Lab to Filter: Lab to Filter
PCB ONLY: SOXHLET
Format: PDF
Other: EXCEL
CLP Like Data Pkg Required:
Email To: CATHERINE.JOE@APDM.COM
Fax To #: NON SOXHLET

Ending Date: 2/10/23
Beginning Date/Time: 2/10/23 1000
Client Sample ID / Description: MA-12-2023031
Client Name: MA-165-2023021
Client Address: MA-1160-2023021
Matrix Code: GW
Conc Code: U

Relinquished by (signature): [Signature]
Relinquished by (signature): [Signature]
Relinquished by (signature): [Signature]
Received by (signature): [Signature]
Relinquished by (signature): [Signature]
Relinquished by (signature): [Signature]

Date/Time: 2-23-23 15:10
Date/Time: 2-23-23 15:10
Date/Time: 2-23-23 17:00
Date/Time: 2-23-23 17:00

Client Comments: GIS KEY TO CATHERINE.JOE@APDM.COM
Special Requirements:
 MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required
PWSID #
Project Entity:
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Other
 Chromatogram
 AIMA-LAP, LLC

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

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)

Disclaimers: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.pacelabs.com

ENV-FRM-ELON-0001 v02__ Sample Receiving Checklist 1-12-2023

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing
 – Using Acceptance Policy) Any False statement will be
 brought to the attention of the Client – True or False



Client APTIM
 Project Tex/Providence
 MCP/RCP Required N/A
 Deliverable Package Requirement N/A
 Location RI
 PWSID# (When Applicable) NA
 Arrival Method Courier
 Received By / Date / Time EGR / 2-2-23 / 1700
 Back-Sheet By / Date / Time AAM / 2-3-23 / 0910
 Temperature Method Temp Gun # 3
 Temp $\leq 6^{\circ}\text{C}$ Actual Temperature 4.4 $^{\circ}\text{C}$
 Rush Samples: Yes / No _____ Notify _____
 Short Hold: Yes / No _____ Notify _____

	True	False
Received on Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Received in Cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Custody Seal: DATE TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples Labels Agree	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Samples in Good Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples Received within Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there enough Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper Media/Container Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Splitting Samples Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MS/MSD	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lab to Filters	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Included: (Check all included)		
Client <input checked="" type="checkbox"/>	Analysis <input checked="" type="checkbox"/>	Sampler Name <input checked="" type="checkbox"/>
Project <input checked="" type="checkbox"/>	IDs <input checked="" type="checkbox"/>	Collection Date/Time <input checked="" type="checkbox"/>
All Samples Proper PH <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>

Notes regarding Samples/COC outside of SOP:

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	Na2S2O3	Other Preservative
1L Amber Plastic								
500 mL Amber Plastic								
250 mL Amber Plastic								
Other Amber Clear Plastic								
16oz Amber Clear								
8oz Amber Clear								
4oz Amber Clear								
2oz Amber Clear								
Col/Bacteria								
Flashpoint								
Plastic Bag								
SOC Kit								
Perchlorate								
Encore								
Frozen								
Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials	<u>N/A</u>	<u>6</u>						

May 16, 2023

Catherine Joe Mainville
APTIM - MA
150 Royall Street
Canton, MA 02021

Project Location: Providence, RI
Client Job Number:
Project Number: 631010697
Laboratory Work Order Number: 23E0621

Enclosed are results of analyses for samples as received by the laboratory on May 3, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Theresa L. Ferrentino
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	8
23E0621-01	8
23E0621-02	10
23E0621-03	12
23E0621-04	14
23E0621-05	16
23E0621-06	18
23E0621-07	20
23E0621-08	22
23E0621-09	24
23E0621-10	26
23E0621-11	28
23E0621-12	30
23E0621-13	32
23E0621-14	34
23E0621-15	36
23E0621-16	38
23E0621-17	40
23E0621-18	41
23E0621-19	42
23E0621-20	45
23E0621-21	46
23E0621-22	49

Table of Contents (continued)

23E0621-23	51
23E0621-24	53
23E0621-25	55
23E0621-26	57
Sample Preparation Information	59
QC Data	60
Volatile Organic Compounds by GC/MS	60
B339554	60
B339678	65
B340077	70
Petroleum Hydrocarbons Analyses	75
B339248	75
Metals Analyses (Dissolved)	76
B339654	76
Flag/Qualifier Summary	77
Certifications	78
Chain of Custody/Sample Receipt	80

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

 APTIM - MA
 150 Royall Street
 Canton, MA 02021
 ATTN: Catherine Joe Mainville

REPORT DATE: 5/16/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 631010697

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E0621

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

PROJECT LOCATION: Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-207S-20230501	23E0621-01	Ground Water		SW-846 8260D	
MW-207D-20230501	23E0621-02	Ground Water		SW-846 8260D	
MW-202S-20230501	23E0621-03	Ground Water		SW-846 8260D	
MW-202D-20230501	23E0621-04	Ground Water		SW-846 8260D	
MW-101S-20230501	23E0621-05	Ground Water		SW-846 8260D	
MW-101SDUP-20230501	23E0621-06	Ground Water		SW-846 8260D	
MW-101D-20230501	23E0621-07	Ground Water		SW-846 8260D	
MW-201D-20230501	23E0621-08	Ground Water		SW-846 8260D	
MW-217D-20230501	23E0621-09	Ground Water		SW-846 8260D	
MW-217S-20230501	23E0621-10	Ground Water		SW-846 8260D	
MW-216S-20230501	23E0621-11	Ground Water		SW-846 8260D	
MW-216D-20230501	23E0621-12	Ground Water		SW-846 8260D	
MW-209D-20230501	23E0621-13	Ground Water		SW-846 8260D	
MW-112-20230501	23E0621-14	Ground Water		SW-846 8260D	
MW-218S-20230501	23E0621-15	Ground Water		SW-846 8260D	
MW-218D-20230501	23E0621-16	Ground Water		SW-846 8260D	
CW-6-20230502	23E0621-17	Ground Water		SW-846 8015C	
CW-6-20230502DUP	23E0621-18	Ground Water		SW-846 8015C	
GZA-3-20230502	23E0621-19	Ground Water		SW-846 6020B	
				SW-846 8260D	
GZA-3-20230502DUP	23E0621-20	Ground Water		SW-846 6020B	
MW-109D-20230502	23E0621-21	Ground Water		SW-846 6020B	
				SW-846 8260D	
CW-1-20230502	23E0621-22	Ground Water		SW-846 8260D	
CW-2-20230502	23E0621-23	Ground Water		SW-846 8260D	
MW-116D-20230502	23E0621-24	Ground Water		SW-846 8260D	
MW-116S-20230502	23E0621-25	Ground Water		SW-846 8260D	
TB-1-20230502	23E0621-26	Trip Blank Water		SW-846 8260D	

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
SW-846 8015C

Qualifications:**Z-01**

Sample chromatogram most closely matches transformer oil.

Analyte & Samples(s) Qualified:**TPH (C9-C36)**

23E0621-17[CW-6-20230502], 23E0621-18[CW-6-20230502DUP]

SW-846 8260D

Qualifications:**DL-01**

Elevated reporting limits for all volatile compounds due to foaming sample matrix.

Analyte & Samples(s) Qualified:

23E0621-10[MW-217S-20230501], 23E0621-11[MW-216S-20230501]

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:**1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)**

23E0621-06[MW-101SDUP-20230501], 23E0621-07[MW-101D-20230501], 23E0621-08[MW-201D-20230501], 23E0621-09[MW-217D-20230501],
23E0621-10[MW-217S-20230501], 23E0621-11[MW-216S-20230501], 23E0621-12[MW-216D-20230501], 23E0621-13[MW-209D-20230501],
23E0621-14[MW-112-20230501], 23E0621-15[MW-218S-20230501], 23E0621-16[MW-218D-20230501], 23E0621-19[GZA-3-20230502],
23E0621-21[MW-109D-20230502], 23E0621-22[CW-1-20230502], 23E0621-23[CW-2-20230502], 23E0621-24[MW-116D-20230502], 23E0621-25[MW-116S-20230502],
23E0621-26[TB-1-20230502], B339678-BLK1, B339678-BS1, B339678-BSD1, S087302-CCV1

Acrylonitrile

23E0621-03[MW-202S-20230501], 23E0621-04[MW-202D-20230501], 23E0621-05[MW-101S-20230501], 23E0621-06[MW-101SDUP-20230501],
23E0621-07[MW-101D-20230501], 23E0621-08[MW-201D-20230501], 23E0621-09[MW-217D-20230501], 23E0621-10[MW-217S-20230501],
23E0621-11[MW-216S-20230501], 23E0621-12[MW-216D-20230501], 23E0621-13[MW-209D-20230501], 23E0621-14[MW-112-20230501],
23E0621-15[MW-218S-20230501], 23E0621-16[MW-218D-20230501], 23E0621-19[GZA-3-20230502], 23E0621-21[MW-109D-20230502], 23E0621-22[CW-1-20230502],
23E0621-23[CW-2-20230502], 23E0621-24[MW-116D-20230502], 23E0621-25[MW-116S-20230502], 23E0621-26[TB-1-20230502], B339554-BLK1, B339554-BS1,
B339554-BSD1, B339678-BLK1, B339678-BS1, B339678-BSD1, S087302-CCV1

Chloromethane

23E0621-01[MW-207S-20230501], 23E0621-02[MW-207D-20230501], B340077-BLK1, B340077-BS1, B340077-BSD1, S087473-CCV1

Methylene Chloride

23E0621-03[MW-202S-20230501], 23E0621-04[MW-202D-20230501], 23E0621-05[MW-101S-20230501], 23E0621-06[MW-101SDUP-20230501],
23E0621-07[MW-101D-20230501], 23E0621-08[MW-201D-20230501], 23E0621-09[MW-217D-20230501], 23E0621-10[MW-217S-20230501],
23E0621-11[MW-216S-20230501], 23E0621-12[MW-216D-20230501], 23E0621-13[MW-209D-20230501], 23E0621-14[MW-112-20230501],
23E0621-15[MW-218S-20230501], 23E0621-16[MW-218D-20230501], 23E0621-19[GZA-3-20230502], 23E0621-21[MW-109D-20230502], 23E0621-22[CW-1-20230502],
23E0621-23[CW-2-20230502], 23E0621-24[MW-116D-20230502], 23E0621-25[MW-116S-20230502], 23E0621-26[TB-1-20230502], B339554-BLK1, B339554-BS1,
B339554-BSD1, B339678-BLK1, B339678-BS1, B339678-BSD1, S087302-CCV1

tert-Butyl Alcohol (TBA)

23E0621-03[MW-202S-20230501], 23E0621-04[MW-202D-20230501], 23E0621-05[MW-101S-20230501], 23E0621-06[MW-101SDUP-20230501],
23E0621-07[MW-101D-20230501], 23E0621-08[MW-201D-20230501], 23E0621-09[MW-217D-20230501], 23E0621-10[MW-217S-20230501],
23E0621-11[MW-216S-20230501], 23E0621-12[MW-216D-20230501], 23E0621-13[MW-209D-20230501], 23E0621-14[MW-112-20230501],
23E0621-15[MW-218S-20230501], 23E0621-16[MW-218D-20230501], 23E0621-19[GZA-3-20230502], 23E0621-21[MW-109D-20230502], 23E0621-22[CW-1-20230502],
23E0621-23[CW-2-20230502], 23E0621-24[MW-116D-20230502], 23E0621-25[MW-116S-20230502], 23E0621-26[TB-1-20230502], B339554-BLK1, B339554-BS1,
B339554-BSD1, B339678-BLK1, B339678-BS1, B339678-BSD1, S087302-CCV1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

23E0621-05[MW-101S-20230501], 23E0621-06[MW-101SDUP-20230501], 23E0621-15[MW-218S-20230501], 23E0621-16[MW-218D-20230501],
23E0621-22[CW-1-20230502]

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

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

23E0621-01[MW-207S-20230501], 23E0621-02[MW-207D-20230501], 23E0621-03[MW-202S-20230501], 23E0621-04[MW-202D-20230501], 23E0621-05[MW-101S-20230501], B339554-BLK1, B339554-BS1, B339554-BSD1, B340077-BLK1, B340077-BS1, B340077-BSD1, S087095-CCV1, S087473-CCV1

Chloromethane

23E0621-01[MW-207S-20230501], 23E0621-02[MW-207D-20230501], 23E0621-03[MW-202S-20230501], 23E0621-04[MW-202D-20230501], 23E0621-05[MW-101S-20230501], 23E0621-06[MW-101SDUP-20230501], 23E0621-07[MW-101D-20230501], 23E0621-08[MW-201D-20230501], 23E0621-09[MW-217D-20230501], 23E0621-10[MW-217S-20230501], 23E0621-11[MW-216S-20230501], 23E0621-12[MW-216D-20230501], 23E0621-13[MW-209D-20230501], 23E0621-14[MW-112-20230501], 23E0621-15[MW-218S-20230501], 23E0621-16[MW-218D-20230501], 23E0621-19[GZA-3-20230502], 23E0621-21[MW-109D-20230502], 23E0621-22[CW-1-20230502], 23E0621-23[CW-2-20230502], 23E0621-24[MW-116D-20230502], 23E0621-25[MW-116S-20230502], 23E0621-26[TB-1-20230502], B339554-BLK1, B339554-BS1, B339554-BSD1, B339678-BLK1, B339678-BS1, B339678-BSD1, B340077-BLK1, B340077-BS1, B340077-BSD1, S087095-CCV1, S087302-CCV1, S087473-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:

1,3,5-Trimethylbenzene

B340077-BS1, B340077-BSD1, S087473-CCV1

4-Chlorotoluene

B340077-BS1, B340077-BSD1, S087473-CCV1

Bromochloromethane

B340077-BS1, B340077-BSD1, S087473-CCV1

Vinyl Chloride

B340077-BS1, B340077-BSD1, S087473-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Chloromethane

23E0621-01[MW-207S-20230501], 23E0621-02[MW-207D-20230501], 23E0621-03[MW-202S-20230501], 23E0621-04[MW-202D-20230501], 23E0621-05[MW-101S-20230501], 23E0621-06[MW-101SDUP-20230501], 23E0621-07[MW-101D-20230501], 23E0621-08[MW-201D-20230501], 23E0621-09[MW-217D-20230501], 23E0621-10[MW-217S-20230501], 23E0621-11[MW-216S-20230501], 23E0621-12[MW-216D-20230501], 23E0621-13[MW-209D-20230501], 23E0621-14[MW-112-20230501], 23E0621-15[MW-218S-20230501], 23E0621-16[MW-218D-20230501], 23E0621-19[GZA-3-20230502], 23E0621-21[MW-109D-20230502], 23E0621-22[CW-1-20230502], 23E0621-23[CW-2-20230502], 23E0621-24[MW-116D-20230502], 23E0621-25[MW-116S-20230502], 23E0621-26[TB-1-20230502], B339554-BLK1, B339554-BS1, B339554-BSD1, B339678-BLK1, B339678-BS1, B339678-BSD1, B340077-BLK1, B340077-BS1, B340077-BSD1, S087095-CCV1, S087302-CCV1, S087473-CCV1

Dichlorodifluoromethane (Freon 12)

23E0621-01[MW-207S-20230501], 23E0621-02[MW-207D-20230501], 23E0621-03[MW-202S-20230501], 23E0621-04[MW-202D-20230501], 23E0621-05[MW-101S-20230501], 23E0621-06[MW-101SDUP-20230501], 23E0621-07[MW-101D-20230501], 23E0621-08[MW-201D-20230501], 23E0621-09[MW-217D-20230501], 23E0621-10[MW-217S-20230501], 23E0621-11[MW-216S-20230501], 23E0621-12[MW-216D-20230501], 23E0621-13[MW-209D-20230501], 23E0621-14[MW-112-20230501], 23E0621-15[MW-218S-20230501], 23E0621-16[MW-218D-20230501], 23E0621-19[GZA-3-20230502], 23E0621-21[MW-109D-20230502], 23E0621-22[CW-1-20230502], 23E0621-23[CW-2-20230502], 23E0621-24[MW-116D-20230502], 23E0621-25[MW-116S-20230502], 23E0621-26[TB-1-20230502], B339554-BLK1, B339554-BS1, B339554-BSD1, B339678-BLK1, B339678-BS1, B339678-BSD1, B340077-BLK1, B340077-BS1, B340077-BSD1, S087095-CCV1, S087302-CCV1, S087473-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.



Lisa A. Worthington
Technical Representative

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-207S-20230501

Sampled: 5/1/2023 08:15

Sample ID: 23E0621-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/15/23	5/15/23 12:19	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Chloromethane	ND	2.0	µg/L	1	R-05, V-05, V-34	SW-846 8260D	5/15/23	5/15/23 12:19	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-207S-20230501

Sampled: 5/1/2023 08:15

Sample ID: 23E0621-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	110	70-130	5/15/23 12:19
Toluene-d8	101	70-130	5/15/23 12:19
4-Bromofluorobenzene	94.5	70-130	5/15/23 12:19

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-207D-20230501

Sampled: 5/1/2023 08:40

Sample ID: 23E0621-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/15/23	5/15/23 12:46	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Chloromethane	ND	2.0	µg/L	1	R-05, V-05, V-34	SW-846 8260D	5/15/23	5/15/23 12:46	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-207D-20230501

Sampled: 5/1/2023 08:40

Sample ID: 23E0621-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/15/23	5/15/23 12:46	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	111	70-130	5/15/23 12:46
Toluene-d8	101	70-130	5/15/23 12:46
4-Bromofluorobenzene	95.6	70-130	5/15/23 12:46

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-202S-20230501

Sampled: 5/1/2023 09:00

Sample ID: 23E0621-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/8/23	5/9/23 5:32	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/8/23	5/9/23 5:32	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/8/23	5/9/23 5:32	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/8/23	5/9/23 5:32	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-202S-20230501

Sampled: 5/1/2023 09:00

Sample ID: 23E0621-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/8/23	5/9/23 5:32	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Tetrachloroethylene	4.7	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	97.0	70-130	

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-202D-20230501

Sampled: 5/1/2023 09:30

Sample ID: 23E0621-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/8/23	5/9/23 5:59	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/8/23	5/9/23 5:59	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/8/23	5/9/23 5:59	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/8/23	5/9/23 5:59	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-202D-20230501

Sampled: 5/1/2023 09:30

Sample ID: 23E0621-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/8/23	5/9/23 5:59	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/8/23	5/9/23 5:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	93.3	70-130	

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-101S-20230501

Sampled: 5/1/2023 10:00

Sample ID: 23E0621-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	200	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Acrylonitrile	ND	20	µg/L	4	R-05	SW-846 8260D	5/8/23	5/9/23 6:18	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Benzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Bromobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Bromochloromethane	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Bromodichloromethane	ND	2.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Bromoform	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Bromomethane	ND	8.0	µg/L	4	V-05	SW-846 8260D	5/8/23	5/9/23 6:18	EEH
2-Butanone (MEK)	ND	80	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
tert-Butyl Alcohol (TBA)	ND	80	µg/L	4	R-05	SW-846 8260D	5/8/23	5/9/23 6:18	EEH
n-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
sec-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
tert-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Carbon Disulfide	ND	20	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Carbon Tetrachloride	ND	20	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Chlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Chlorodibromomethane	ND	2.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Chloroethane	ND	8.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Chloroform	ND	8.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Chloromethane	ND	8.0	µg/L	4	V-05, V-34	SW-846 8260D	5/8/23	5/9/23 6:18	EEH
2-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
4-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,2-Dibromoethane (EDB)	ND	2.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Dibromomethane	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,2-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,3-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,4-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
trans-1,4-Dichloro-2-butene	ND	8.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Dichlorodifluoromethane (Freon 12)	ND	8.0	µg/L	4	V-34	SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,1-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,2-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,1-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
cis-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
trans-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,3-Dichloropropane	ND	2.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
2,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,1-Dichloropropene	ND	8.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
cis-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
trans-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Diethyl Ether	ND	8.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-101S-20230501

Sampled: 5/1/2023 10:00

Sample ID: 23E0621-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,4-Dioxane	ND	200	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Ethylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Hexachlorobutadiene	ND	2.4	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
2-Hexanone (MBK)	ND	40	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Isopropylbenzene (Cumene)	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
p-Isopropyltoluene (p-Cymene)	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Methyl Acetate	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Methyl tert-Butyl Ether (MTBE)	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Methyl Cyclohexane	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Methylene Chloride	ND	20	µg/L	4	R-05	SW-846 8260D	5/8/23	5/9/23 6:18	EEH
4-Methyl-2-pentanone (MIBK)	ND	40	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Naphthalene	ND	8.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
n-Propylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Styrene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,1,1,2-Tetrachloroethane	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Tetrachloroethylene	240	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Tetrahydrofuran	ND	40	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Toluene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,2,3-Trichlorobenzene	ND	20	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,2,4-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,3,5-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,1,1-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,1,2-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Trichloroethylene	6.2	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Trichlorofluoromethane (Freon 11)	ND	8.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,2,3-Trichloropropane	ND	8.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,2,4-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
1,3,5-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Vinyl Chloride	ND	8.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
m+p Xylene	ND	8.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
o-Xylene	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH
Xylenes (total)	ND	4.0	µg/L	4		SW-846 8260D	5/8/23	5/9/23 6:18	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	5/9/23 6:18
Toluene-d8	100	70-130	5/9/23 6:18
4-Bromofluorobenzene	94.4	70-130	5/9/23 6:18

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-101SDUP-20230501

Sampled: 5/1/2023 10:00

Sample ID: 23E0621-06

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	200	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Acrylonitrile	ND	20	µg/L	4	R-05	SW-846 8260D	5/9/23	5/10/23 17:49	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Benzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Bromobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Bromochloromethane	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Bromodichloromethane	ND	2.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Bromoform	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Bromomethane	ND	8.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
2-Butanone (MEK)	ND	80	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
tert-Butyl Alcohol (TBA)	ND	80	µg/L	4	R-05	SW-846 8260D	5/9/23	5/10/23 17:49	EEH
n-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
sec-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
tert-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Carbon Disulfide	ND	20	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Carbon Tetrachloride	ND	20	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Chlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Chlorodibromomethane	ND	2.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Chloroethane	ND	8.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Chloroform	ND	8.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Chloromethane	ND	8.0	µg/L	4	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 17:49	EEH
2-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
4-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,2-Dibromoethane (EDB)	ND	2.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Dibromomethane	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,2-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,3-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,4-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
trans-1,4-Dichloro-2-butene	ND	8.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Dichlorodifluoromethane (Freon 12)	ND	8.0	µg/L	4	V-34	SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,1-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,2-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,1-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
cis-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
trans-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,3-Dichloropropane	ND	2.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
2,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,1-Dichloropropene	ND	8.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
cis-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
trans-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Diethyl Ether	ND	8.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-101SDUP-20230501

Sampled: 5/1/2023 10:00

Sample ID: 23E0621-06

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,4-Dioxane	ND	200	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Ethylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Hexachlorobutadiene	ND	2.4	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
2-Hexanone (MBK)	ND	40	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Isopropylbenzene (Cumene)	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
p-Isopropyltoluene (p-Cymene)	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Methyl Acetate	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Methyl tert-Butyl Ether (MTBE)	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Methyl Cyclohexane	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Methylene Chloride	ND	20	µg/L	4	R-05	SW-846 8260D	5/9/23	5/10/23 17:49	EEH
4-Methyl-2-pentanone (MIBK)	ND	40	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Naphthalene	ND	8.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
n-Propylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Styrene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,1,1,2-Tetrachloroethane	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Tetrachloroethylene	250	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Tetrahydrofuran	ND	40	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Toluene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,2,3-Trichlorobenzene	ND	20	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,2,4-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,3,5-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,1,1-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,1,2-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Trichloroethylene	6.1	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Trichlorofluoromethane (Freon 11)	ND	8.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,2,3-Trichloropropane	ND	8.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0	µg/L	4	R-05	SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,2,4-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
1,3,5-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Vinyl Chloride	ND	8.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
m+p Xylene	ND	8.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
o-Xylene	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH
Xylenes (total)	ND	4.0	µg/L	4		SW-846 8260D	5/9/23	5/10/23 17:49	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	5/10/23 17:49
Toluene-d8	100	70-130	5/10/23 17:49
4-Bromofluorobenzene	94.6	70-130	5/10/23 17:49

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-101D-20230501

Sampled: 5/1/2023 10:30

Sample ID: 23E0621-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 11:49	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 11:49	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 11:49	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-101D-20230501

Sampled: 5/1/2023 10:30

Sample ID: 23E0621-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 11:49	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Tetrachloroethylene	2.5	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 11:49	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	5/10/23 11:49
Toluene-d8	101	70-130	5/10/23 11:49
4-Bromofluorobenzene	93.4	70-130	5/10/23 11:49

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-201D-20230501

Sampled: 5/1/2023 11:00

Sample ID: 23E0621-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 12:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 12:17	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 12:17	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
cis-1,2-Dichloroethylene	18	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-201D-20230501

Sampled: 5/1/2023 11:00

Sample ID: 23E0621-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 12:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Tetrachloroethylene	54	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Trichloroethylene	11	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	95.8	70-130	

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-217D-20230501

Sampled: 5/1/2023 11:30

Sample ID: 23E0621-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 12:45	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 12:45	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 12:45	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
cis-1,2-Dichloroethylene	2.1	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-217D-20230501

Sampled: 5/1/2023 11:30

Sample ID: 23E0621-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 12:45	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Trichloroethylene	1.3	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 12:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	5/10/23 12:45
Toluene-d8	102	70-130	5/10/23 12:45
4-Bromofluorobenzene	96.4	70-130	5/10/23 12:45

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-217S-20230501

Sampled: 5/1/2023 12:00

Sample ID: 23E0621-10

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Acrylonitrile	ND	10	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 16:55	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Bromoform	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Bromomethane	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 16:55	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Chloromethane	ND	4.0	µg/L	2	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 16:55	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2	V-34	SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
cis-1,2-Dichloroethylene	2.7	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-217S-20230501

Sampled: 5/1/2023 12:00

Sample ID: 23E0621-10

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Methylene Chloride	ND	10	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 16:55	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Naphthalene	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Trichloroethylene	2.3	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
o-Xylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH
Xylenes (total)	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 16:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	94.2	70-130	

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-216S-20230501

Sampled: 5/1/2023 12:30

Sample ID: 23E0621-11

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Acrylonitrile	ND	10	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 17:22	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Bromoform	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Bromomethane	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 17:22	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Chloromethane	ND	4.0	µg/L	2	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 17:22	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2	V-34	SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
cis-1,2-Dichloroethylene	4.6	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-216S-20230501

Sampled: 5/1/2023 12:30

Sample ID: 23E0621-11

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Methylene Chloride	ND	10	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 17:22	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Naphthalene	11	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,2,4-Trimethylbenzene	4.2	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
o-Xylene	4.0	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH
Xylenes (total)	4.0	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 17:22	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	96.1	70-130	

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-216D-20230501

Sampled: 5/1/2023 13:00

Sample ID: 23E0621-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 13:12	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 13:12	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 13:12	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-216D-20230501

Sampled: 5/1/2023 13:00

Sample ID: 23E0621-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 13:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	95.0	70-130	

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-209D-20230501

Sampled: 5/1/2023 13:30

Sample ID: 23E0621-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 13:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 13:40	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 13:40	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
cis-1,2-Dichloroethylene	5.0	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-209D-20230501

Sampled: 5/1/2023 13:30

Sample ID: 23E0621-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 13:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Tetrachloroethylene	40	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Trichloroethylene	11	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 13:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	5/10/23 13:40
Toluene-d8	102	70-130	5/10/23 13:40
4-Bromofluorobenzene	95.6	70-130	5/10/23 13:40

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-112-20230501

Sampled: 5/1/2023 14:00

Sample ID: 23E0621-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 14:08	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 14:08	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 14:08	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-112-20230501

Sampled: 5/1/2023 14:00

Sample ID: 23E0621-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 14:08	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Tetrachloroethylene	25	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Trichloroethylene	1.1	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:08	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	5/10/23 14:08
Toluene-d8	101	70-130	5/10/23 14:08
4-Bromofluorobenzene	94.9	70-130	5/10/23 14:08

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-218S-20230501

Sampled: 5/1/2023 14:30

Sample ID: 23E0621-15

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Acrylonitrile	ND	10	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 18:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Bromoform	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Bromomethane	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 18:17	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Chloromethane	ND	4.0	µg/L	2	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 18:17	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2	V-34	SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
cis-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-218S-20230501

Sampled: 5/1/2023 14:30

Sample ID: 23E0621-15

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Methylene Chloride	ND	10	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 18:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Naphthalene	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Tetrachloroethylene	130	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2	R-05	SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
o-Xylene	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH
Xylenes (total)	ND	2.0	µg/L	2		SW-846 8260D	5/9/23	5/10/23 18:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	5/10/23 18:17
Toluene-d8	101	70-130	5/10/23 18:17
4-Bromofluorobenzene	94.3	70-130	5/10/23 18:17

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-218D-20230501

Sampled: 5/1/2023 15:00

Sample ID: 23E0621-16

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1000	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Acrylonitrile	ND	100	µg/L	20	R-05	SW-846 8260D	5/9/23	5/10/23 18:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	10	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Benzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Bromobenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Bromochloromethane	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Bromodichloromethane	ND	10	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Bromoform	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Bromomethane	ND	40	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
2-Butanone (MEK)	ND	400	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
tert-Butyl Alcohol (TBA)	ND	400	µg/L	20	R-05	SW-846 8260D	5/9/23	5/10/23 18:44	EEH
n-Butylbenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
sec-Butylbenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
tert-Butylbenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	10	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Carbon Disulfide	ND	100	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Carbon Tetrachloride	ND	100	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Chlorobenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Chlorodibromomethane	ND	10	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Chloroethane	ND	40	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Chloroform	ND	40	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Chloromethane	ND	40	µg/L	20	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 18:44	EEH
2-Chlorotoluene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
4-Chlorotoluene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,2-Dibromoethane (EDB)	ND	10	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Dibromomethane	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,2-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,3-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,4-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
trans-1,4-Dichloro-2-butene	ND	40	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	40	µg/L	20	V-34	SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,1-Dichloroethane	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,2-Dichloroethane	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,1-Dichloroethylene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
cis-1,2-Dichloroethylene	60	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
trans-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,3-Dichloropropane	ND	10	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
2,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,1-Dichloropropene	ND	40	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
cis-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
trans-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Diethyl Ether	ND	40	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-218D-20230501

Sampled: 5/1/2023 15:00

Sample ID: 23E0621-16

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	10	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,4-Dioxane	ND	1000	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Ethylbenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Hexachlorobutadiene	ND	12	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
2-Hexanone (MBK)	ND	200	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Isopropylbenzene (Cumene)	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Methyl Acetate	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Methyl tert-Butyl Ether (MTBE)	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Methyl Cyclohexane	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Methylene Chloride	ND	100	µg/L	20	R-05	SW-846 8260D	5/9/23	5/10/23 18:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	200	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Naphthalene	ND	40	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
n-Propylbenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Styrene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,1,1,2-Tetrachloroethane	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,1,2,2-Tetrachloroethane	ND	10	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Tetrachloroethylene	1400	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Tetrahydrofuran	ND	200	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Toluene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,2,3-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,2,4-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,3,5-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,1,1-Trichloroethane	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,1,2-Trichloroethane	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Trichloroethylene	310	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Trichlorofluoromethane (Freon 11)	ND	40	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,2,3-Trichloropropane	ND	40	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	20	R-05	SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,2,4-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
1,3,5-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Vinyl Chloride	ND	40	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
m+p Xylene	ND	40	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
o-Xylene	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH
Xylenes (total)	ND	20	µg/L	20		SW-846 8260D	5/9/23	5/10/23 18:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	5/10/23 18:44
Toluene-d8	101	70-130	5/10/23 18:44
4-Bromofluorobenzene	94.2	70-130	5/10/23 18:44

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: CW-6-20230502

Sampled: 5/2/2023 11:00

Sample ID: 23E0621-17

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	7.2	0.19	mg/L	1	Z-01	SW-846 8015C	5/4/23	5/5/23 18:00	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	70.7		40-140				5/5/23 18:00		

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: CW-6-20230502DUP

Sampled: 5/2/2023 11:00

Sample ID: 23E0621-18

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	7.5	0.20	mg/L	1	Z-01	SW-846 8015C	5/4/23	5/5/23 17:40	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	80.5		40-140					5/5/23 17:40	

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: GZA-3-20230502

Sampled: 5/2/2023 12:30

Sample ID: 23E0621-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 14:35	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 14:35	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 14:35	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: GZA-3-20230502

Sampled: 5/2/2023 12:30

Sample ID: 23E0621-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 14:35	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Trichloroethylene	3.1	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 14:35	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	5/10/23 14:35
Toluene-d8	102	70-130	5/10/23 14:35
4-Bromofluorobenzene	95.1	70-130	5/10/23 14:35

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: GZA-3-20230502

Sampled: 5/2/2023 12:30

Sample ID: 23E0621-19

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.50	µg/L	1		SW-846 6020B	5/8/23	5/11/23 17:48	JLC

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

 Field Sample #: **GZA-3-20230502DUP**

Sampled: 5/2/2023 12:30

 Sample ID: **23E0621-20**

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.50	µg/L	1		SW-846 6020B	5/8/23	5/11/23 17:51	JLC

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-109D-20230502

Sampled: 5/2/2023 13:00

Sample ID: 23E0621-21

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:03	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:03	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 15:03	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-109D-20230502

Sampled: 5/2/2023 13:00

Sample ID: 23E0621-21

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:03	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Trichloroethylene	1.4	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:03	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	94.2	70-130	

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-109D-20230502

Sampled: 5/2/2023 13:00

Sample ID: 23E0621-21

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.50	µg/L	1		SW-846 6020B	5/8/23	5/11/23 17:55	JLC

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: CW-1-20230502

Sampled: 5/2/2023 13:30

Sample ID: 23E0621-22

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Acrylonitrile	ND	25	µg/L	5	R-05	SW-846 8260D	5/9/23	5/10/23 19:11	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Benzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Bromoform	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Bromomethane	ND	10	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5	R-05	SW-846 8260D	5/9/23	5/10/23 19:11	EEH
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Carbon Disulfide	ND	25	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Chloroethane	ND	10	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Chloroform	ND	10	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Chloromethane	ND	10	µg/L	5	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 19:11	EEH
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5	V-34	SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,1-Dichloroethylene	5.6	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
cis-1,2-Dichloroethylene	43	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
trans-1,2-Dichloroethylene	5.8	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Diethyl Ether	ND	10	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: CW-1-20230502

Sampled: 5/2/2023 13:30

Sample ID: 23E0621-22

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,4-Dioxane	ND	250	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Hexachlorobutadiene	ND	3.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Methyl Acetate	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Methylene Chloride	ND	25	µg/L	5	R-05	SW-846 8260D	5/9/23	5/10/23 19:11	EEH
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Naphthalene	ND	10	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Styrene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Tetrachloroethylene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Toluene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Trichloroethylene	450	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5	R-05	SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
m+p Xylene	ND	10	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
o-Xylene	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH
Xylenes (total)	ND	5.0	µg/L	5		SW-846 8260D	5/9/23	5/10/23 19:11	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	5/10/23 19:11
Toluene-d8	102	70-130	5/10/23 19:11
4-Bromofluorobenzene	94.7	70-130	5/10/23 19:11

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: CW-2-20230502

Sampled: 5/2/2023 14:00

Sample ID: 23E0621-23

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:32	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:32	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 15:32	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: CW-2-20230502

Sampled: 5/2/2023 14:00

Sample ID: 23E0621-23

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Methyl tert-Butyl Ether (MTBE)	1.9	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:32	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	5/10/23 15:32
Toluene-d8	99.8	70-130	5/10/23 15:32
4-Bromofluorobenzene	93.6	70-130	5/10/23 15:32

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-116D-20230502

Sampled: 5/2/2023 14:30

Sample ID: 23E0621-24

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:59	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:59	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 15:59	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-116D-20230502

Sampled: 5/2/2023 14:30

Sample ID: 23E0621-24

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:59	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 15:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	95.7	70-130	

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-116S-20230502

Sampled: 5/2/2023 15:00

Sample ID: 23E0621-25

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 16:27	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 16:27	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 16:27	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: MW-116S-20230502

Sampled: 5/2/2023 15:00

Sample ID: 23E0621-25

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 16:27	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 16:27	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	5/10/23 16:27
Toluene-d8	103	70-130	5/10/23 16:27
4-Bromofluorobenzene	95.3	70-130	5/10/23 16:27

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: TB-1-20230502

Sampled: 5/2/2023 15:15

Sample ID: 23E0621-26

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Acrylonitrile	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 10:27	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 10:27	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/9/23	5/10/23 10:27	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-34	SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH

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

Project Location: Providence, RI

Sample Description:

Work Order: 23E0621

Date Received: 5/3/2023

Field Sample #: TB-1-20230502

Sampled: 5/2/2023 15:15

Sample ID: 23E0621-26

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Methylene Chloride	ND	5.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 10:27	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1	R-05	SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/9/23	5/10/23 10:27	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	107	70-130	5/10/23 10:27						
Toluene-d8	101	70-130	5/10/23 10:27						
4-Bromofluorobenzene	95.4	70-130	5/10/23 10:27						

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

Sample Extraction Data
Prep Method: SW-846 3005A Dissolved Analytical Method: SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0621-19 [GZA-3-20230502]	B339654	50.0	50.0	05/08/23
23E0621-20 [GZA-3-20230502DUP]	B339654	50.0	50.0	05/08/23
23E0621-21 [MW-109D-20230502]	B339654	50.0	50.0	05/08/23

Prep Method: SW-846 3510C Analytical Method: SW-846 8015C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0621-17 [CW-6-20230502]	B339248	1040	1.00	05/04/23
23E0621-18 [CW-6-20230502DUP]	B339248	1000	1.00	05/04/23

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0621-03 [MW-202S-20230501]	B339554	5	5.00	05/08/23
23E0621-04 [MW-202D-20230501]	B339554	5	5.00	05/08/23
23E0621-05 [MW-101S-20230501]	B339554	1.25	5.00	05/08/23

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0621-06 [MW-101SDUP-20230501]	B339678	1.25	5.00	05/09/23
23E0621-07 [MW-101D-20230501]	B339678	5	5.00	05/09/23
23E0621-08 [MW-201D-20230501]	B339678	5	5.00	05/09/23
23E0621-09 [MW-217D-20230501]	B339678	5	5.00	05/09/23
23E0621-10 [MW-217S-20230501]	B339678	2.5	5.00	05/09/23
23E0621-11 [MW-216S-20230501]	B339678	2.5	5.00	05/09/23
23E0621-12 [MW-216D-20230501]	B339678	5	5.00	05/09/23
23E0621-13 [MW-209D-20230501]	B339678	5	5.00	05/09/23
23E0621-14 [MW-112-20230501]	B339678	5	5.00	05/09/23
23E0621-15 [MW-218S-20230501]	B339678	2.5	5.00	05/09/23
23E0621-16 [MW-218D-20230501]	B339678	0.25	5.00	05/09/23
23E0621-19 [GZA-3-20230502]	B339678	5	5.00	05/09/23
23E0621-21 [MW-109D-20230502]	B339678	5	5.00	05/09/23
23E0621-22 [CW-1-20230502]	B339678	1	5.00	05/09/23
23E0621-23 [CW-2-20230502]	B339678	5	5.00	05/09/23
23E0621-24 [MW-116D-20230502]	B339678	5	5.00	05/09/23
23E0621-25 [MW-116S-20230502]	B339678	5	5.00	05/09/23
23E0621-26 [TB-1-20230502]	B339678	5	5.00	05/09/23

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0621-01 [MW-207S-20230501]	B340077	5	5.00	05/15/23
23E0621-02 [MW-207D-20230501]	B340077	5	5.00	05/15/23

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 B339554 - SW-846 5030B										
Blank (B339554-BLK1)										
Prepared & Analyzed: 05/08/23										
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							V-05
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							V-05, V-34
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							V-34
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
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							

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 B339554 - SW-846 5030B
Blank (B339554-BLK1)

Prepared & Analyzed: 05/08/23

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							R-05
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							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	27.2		µg/L	25.0		109	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	23.8		µg/L	25.0		95.3	70-130			

LCS (B339554-BS1)

Prepared & Analyzed: 05/08/23

Acetone	102	50	µg/L	100		102	70-160			†
Acrylonitrile	10.2	5.0	µg/L	10.0		102	70-130			R-05
tert-Amyl Methyl Ether (TAME)	9.57	0.50	µg/L	10.0		95.7	70-130			
Benzene	9.94	1.0	µg/L	10.0		99.4	70-130			
Bromobenzene	9.99	1.0	µg/L	10.0		99.9	70-130			
Bromochloromethane	10.6	1.0	µg/L	10.0		106	70-130			
Bromodichloromethane	9.83	0.50	µg/L	10.0		98.3	70-130			
Bromoform	9.54	1.0	µg/L	10.0		95.4	70-130			
Bromomethane	8.80	2.0	µg/L	10.0		88.0	40-160			V-05 †
2-Butanone (MEK)	102	20	µg/L	100		102	40-160			†
tert-Butyl Alcohol (TBA)	97.2	20	µg/L	100		97.2	40-160			R-05 †
n-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
sec-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.0	0.50	µg/L	10.0		100	70-130			
Carbon Disulfide	85.5	5.0	µg/L	100		85.5	70-130			
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130			
Chlorobenzene	9.94	1.0	µg/L	10.0		99.4	70-130			
Chlorodibromomethane	9.94	0.50	µg/L	10.0		99.4	70-130			
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130			

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 Limits	RPD	RPD Limit	Notes
Batch B339554 - SW-846 5030B									
LCS (B339554-BS1)									
					Prepared & Analyzed: 05/08/23				
Chloroform	10.1	2.0	µg/L	10.0		101	70-130		
Chloromethane	7.67	2.0	µg/L	10.0		76.7	40-160		V-05, V-34 †
2-Chlorotoluene	8.84	1.0	µg/L	10.0		88.4	70-130		
4-Chlorotoluene	9.87	1.0	µg/L	10.0		98.7	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	10.4	5.0	µg/L	10.0		104	70-130		
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130		
Dibromomethane	10.1	1.0	µg/L	10.0		101	70-130		
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130		
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130		
1,4-Dichlorobenzene	9.93	1.0	µg/L	10.0		99.3	70-130		
trans-1,4-Dichloro-2-butene	8.52	2.0	µg/L	10.0		85.2	70-130		
Dichlorodifluoromethane (Freon 12)	9.41	2.0	µg/L	10.0		94.1	40-160		V-34 †
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130		
1,2-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130		
1,1-Dichloroethylene	9.83	1.0	µg/L	10.0		98.3	70-130		
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130		
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130		
1,2-Dichloropropane	9.98	1.0	µg/L	10.0		99.8	70-130		
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130		
2,2-Dichloropropane	9.06	1.0	µg/L	10.0		90.6	40-130		†
1,1-Dichloropropene	10.3	2.0	µg/L	10.0		103	70-130		
cis-1,3-Dichloropropene	9.66	0.50	µg/L	10.0		96.6	70-130		
trans-1,3-Dichloropropene	9.51	0.50	µg/L	10.0		95.1	70-130		
Diethyl Ether	10.5	2.0	µg/L	10.0		105	70-130		
Diisopropyl Ether (DIPE)	10.4	0.50	µg/L	10.0		104	70-130		
1,4-Dioxane	99.2	50	µg/L	100		99.2	40-130		†
Ethylbenzene	10.1	1.0	µg/L	10.0		101	70-130		
Hexachlorobutadiene	10.0	0.60	µg/L	10.0		100	70-130		
2-Hexanone (MBK)	105	10	µg/L	100		105	70-160		†
Isopropylbenzene (Cumene)	9.75	1.0	µg/L	10.0		97.5	70-130		
p-Isopropyltoluene (p-Cymene)	9.99	1.0	µg/L	10.0		99.9	70-130		
Methyl Acetate	7.72	1.0	µg/L	10.0		77.2	70-130		
Methyl tert-Butyl Ether (MTBE)	9.97	1.0	µg/L	10.0		99.7	70-130		
Methyl Cyclohexane	9.81	1.0	µg/L	10.0		98.1	70-130		
Methylene Chloride	10.8	5.0	µg/L	10.0		108	70-130		R-05
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100		105	70-160		†
Naphthalene	9.64	2.0	µg/L	10.0		96.4	40-130		†
n-Propylbenzene	10.0	1.0	µg/L	10.0		100	70-130		
Styrene	9.80	1.0	µg/L	10.0		98.0	70-130		
1,1,1,2-Tetrachloroethane	9.93	1.0	µg/L	10.0		99.3	70-130		
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130		
Tetrachloroethylene	10.1	1.0	µg/L	10.0		101	70-130		
Tetrahydrofuran	9.27	10	µg/L	10.0		92.7	70-130		
Toluene	10.1	1.0	µg/L	10.0		101	70-130		
1,2,3-Trichlorobenzene	9.56	5.0	µg/L	10.0		95.6	70-130		
1,2,4-Trichlorobenzene	9.63	1.0	µg/L	10.0		96.3	70-130		
1,3,5-Trichlorobenzene	9.49	1.0	µg/L	10.0		94.9	70-130		
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130		
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130		
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130		
Trichlorofluoromethane (Freon 11)	9.87	2.0	µg/L	10.0		98.7	70-130		
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104	70-130		

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 B339554 - SW-846 5030B										
LCS (B339554-BS1)										
Prepared & Analyzed: 05/08/23										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.69	1.0	µg/L	10.0		86.9	70-130			
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3,5-Trimethylbenzene	9.72	1.0	µg/L	10.0		97.2	70-130			
Vinyl Chloride	11.3	2.0	µg/L	10.0		113	40-160			†
m+p Xylene	20.0	2.0	µg/L	20.0		99.8	70-130			
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130			
Xylenes (total)	30.1	1.0	µg/L	30.0		100	0-200			
Surrogate: 1,2-Dichloroethane-d4	27.0		µg/L	25.0		108	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.3		µg/L	25.0		97.3	70-130			
LCS Dup (B339554-BSD1)										
Prepared & Analyzed: 05/08/23										
Acetone	105	50	µg/L	100		105	70-160	2.55	25	†
Acrylonitrile	7.29	5.0	µg/L	10.0		72.9	70-130	33.8 *	25	R-05
tert-Amyl Methyl Ether (TAME)	9.38	0.50	µg/L	10.0		93.8	70-130	2.01	25	
Benzene	9.82	1.0	µg/L	10.0		98.2	70-130	1.21	25	
Bromobenzene	10.1	1.0	µg/L	10.0		101	70-130	0.698	25	
Bromochloromethane	10.1	1.0	µg/L	10.0		101	70-130	5.00	25	
Bromodichloromethane	9.34	0.50	µg/L	10.0		93.4	70-130	5.11	25	
Bromoform	9.56	1.0	µg/L	10.0		95.6	70-130	0.209	25	
Bromomethane	9.74	2.0	µg/L	10.0		97.4	40-160	10.1	25	V-05 †
2-Butanone (MEK)	102	20	µg/L	100		102	40-160	0.452	25	†
tert-Butyl Alcohol (TBA)	70.8	20	µg/L	100		70.8	40-160	31.5 *	25	R-05 †
n-Butylbenzene	9.84	1.0	µg/L	10.0		98.4	70-130	3.40	25	
sec-Butylbenzene	9.59	1.0	µg/L	10.0		95.9	70-130	6.75	25	
tert-Butylbenzene	9.58	1.0	µg/L	10.0		95.8	70-130	5.88	25	
tert-Butyl Ethyl Ether (TBEE)	9.97	0.50	µg/L	10.0		99.7	70-130	0.700	25	
Carbon Disulfide	83.2	5.0	µg/L	100		83.2	70-130	2.73	25	
Carbon Tetrachloride	9.99	5.0	µg/L	10.0		99.9	70-130	1.39	25	
Chlorobenzene	9.73	1.0	µg/L	10.0		97.3	70-130	2.14	25	
Chlorodibromomethane	9.70	0.50	µg/L	10.0		97.0	70-130	2.44	25	
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130	4.61	25	
Chloroform	10.1	2.0	µg/L	10.0		101	70-130	0.495	25	
Chloromethane	7.75	2.0	µg/L	10.0		77.5	40-160	1.04	25	V-05, V-34 †
2-Chlorotoluene	8.63	1.0	µg/L	10.0		86.3	70-130	2.40	25	
4-Chlorotoluene	9.54	1.0	µg/L	10.0		95.4	70-130	3.40	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.0		102	70-130	1.46	25	
1,2-Dibromoethane (EDB)	9.54	0.50	µg/L	10.0		95.4	70-130	8.14	25	
Dibromomethane	9.58	1.0	µg/L	10.0		95.8	70-130	5.58	25	
1,2-Dichlorobenzene	9.69	1.0	µg/L	10.0		96.9	70-130	6.10	25	
1,3-Dichlorobenzene	9.86	1.0	µg/L	10.0		98.6	70-130	4.75	25	
1,4-Dichlorobenzene	9.51	1.0	µg/L	10.0		95.1	70-130	4.32	25	
trans-1,4-Dichloro-2-butene	8.55	2.0	µg/L	10.0		85.5	70-130	0.351	25	
Dichlorodifluoromethane (Freon 12)	9.21	2.0	µg/L	10.0		92.1	40-160	2.15	25	V-34 †
1,1-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	4.16	25	
1,2-Dichloroethane	9.78	1.0	µg/L	10.0		97.8	70-130	5.18	25	
1,1-Dichloroethylene	9.65	1.0	µg/L	10.0		96.5	70-130	1.85	25	
cis-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130	4.67	25	
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	2.07	25	
1,2-Dichloropropane	9.73	1.0	µg/L	10.0		97.3	70-130	2.54	25	
1,3-Dichloropropane	9.96	0.50	µg/L	10.0		99.6	70-130	3.65	25	
2,2-Dichloropropane	8.74	1.0	µg/L	10.0		87.4	40-130	3.60	25	†

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 B339554 - SW-846 5030B										
LCS Dup (B339554-BSD1)										
Prepared & Analyzed: 05/08/23										
1,1-Dichloropropene	10.0	2.0	µg/L	10.0		100	70-130	2.55	25	
cis-1,3-Dichloropropene	9.12	0.50	µg/L	10.0		91.2	70-130	5.75	25	
trans-1,3-Dichloropropene	9.15	0.50	µg/L	10.0		91.5	70-130	3.86	25	
Diethyl Ether	10.1	2.0	µg/L	10.0		101	70-130	3.79	25	
Diisopropyl Ether (DIPE)	10.2	0.50	µg/L	10.0		102	70-130	1.84	25	
1,4-Dioxane	99.8	50	µg/L	100		99.8	40-130	0.623	50	† ‡
Ethylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130	3.41	25	
Hexachlorobutadiene	9.60	0.60	µg/L	10.0		96.0	70-130	4.38	25	
2-Hexanone (MBK)	106	10	µg/L	100		106	70-160	0.815	25	†
Isopropylbenzene (Cumene)	9.52	1.0	µg/L	10.0		95.2	70-130	2.39	25	
p-Isopropyltoluene (p-Cymene)	9.41	1.0	µg/L	10.0		94.1	70-130	5.98	25	
Methyl Acetate	7.60	1.0	µg/L	10.0		76.0	70-130	1.57	25	
Methyl tert-Butyl Ether (MTBE)	10.0	1.0	µg/L	10.0		100	70-130	0.799	25	
Methyl Cyclohexane	9.53	1.0	µg/L	10.0		95.3	70-130	2.90	25	
Methylene Chloride	7.71	5.0	µg/L	10.0		77.1	70-130	33.7 *	25	R-05
4-Methyl-2-pentanone (MIBK)	106	10	µg/L	100		106	70-160	0.342	25	†
Naphthalene	9.28	2.0	µg/L	10.0		92.8	40-130	3.81	25	†
n-Propylbenzene	9.46	1.0	µg/L	10.0		94.6	70-130	5.55	25	
Styrene	9.60	1.0	µg/L	10.0		96.0	70-130	2.06	25	
1,1,1,2-Tetrachloroethane	9.42	1.0	µg/L	10.0		94.2	70-130	5.27	25	
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102	70-130	0.878	25	
Tetrachloroethylene	9.71	1.0	µg/L	10.0		97.1	70-130	3.74	25	
Tetrahydrofuran	9.96	10	µg/L	10.0		99.6	70-130	7.18	25	
Toluene	9.79	1.0	µg/L	10.0		97.9	70-130	3.12	25	
1,2,3-Trichlorobenzene	9.49	5.0	µg/L	10.0		94.9	70-130	0.735	25	
1,2,4-Trichlorobenzene	9.11	1.0	µg/L	10.0		91.1	70-130	5.55	25	
1,3,5-Trichlorobenzene	9.24	1.0	µg/L	10.0		92.4	70-130	2.67	25	
1,1,1-Trichloroethane	9.76	1.0	µg/L	10.0		97.6	70-130	6.25	25	
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130	1.95	25	
Trichloroethylene	9.99	1.0	µg/L	10.0		99.9	70-130	3.93	25	
Trichlorofluoromethane (Freon 11)	9.68	2.0	µg/L	10.0		96.8	70-130	1.94	25	
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.0		101	70-130	2.35	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.06	1.0	µg/L	10.0		80.6	70-130	7.52	25	
1,2,4-Trimethylbenzene	9.61	1.0	µg/L	10.0		96.1	70-130	6.35	25	
1,3,5-Trimethylbenzene	9.29	1.0	µg/L	10.0		92.9	70-130	4.52	25	
Vinyl Chloride	11.6	2.0	µg/L	10.0		116	40-160	2.79	25	†
m+p Xylene	19.3	2.0	µg/L	20.0		96.4	70-130	3.47	25	
o-Xylene	9.94	1.0	µg/L	10.0		99.4	70-130	2.09	25	
Xylenes (total)	29.2	1.0	µg/L	30.0		97.4	0-200	3.00		
Surrogate: 1,2-Dichloroethane-d4	27.3		µg/L	25.0		109	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

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 B339678 - SW-846 5030B										
Blank (B339678-BLK1)										
Prepared: 05/09/23 Analyzed: 05/10/23										
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							V-05, V-34
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							V-34
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
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							

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 B339678 - SW-846 5030B
Blank (B339678-BLK1)

Prepared: 05/09/23 Analyzed: 05/10/23

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							R-05
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							R-05
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	26.8		µg/L	25.0		107	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.8		µg/L	25.0		95.4	70-130			

LCS (B339678-BS1)

Prepared: 05/09/23 Analyzed: 05/10/23

Acetone	115	50	µg/L	100		115	70-160			†
Acrylonitrile	10.3	5.0	µg/L	10.0		103	70-130			R-05
tert-Amyl Methyl Ether (TAME)	9.58	0.50	µg/L	10.0		95.8	70-130			
Benzene	9.99	1.0	µg/L	10.0		99.9	70-130			
Bromobenzene	9.95	1.0	µg/L	10.0		99.5	70-130			
Bromochloromethane	10.3	1.0	µg/L	10.0		103	70-130			
Bromodichloromethane	9.46	0.50	µg/L	10.0		94.6	70-130			
Bromoform	9.60	1.0	µg/L	10.0		96.0	70-130			
Bromomethane	8.66	2.0	µg/L	10.0		86.6	40-160			†
2-Butanone (MEK)	113	20	µg/L	100		113	40-160			†
tert-Butyl Alcohol (TBA)	110	20	µg/L	100		110	40-160			R-05 †
n-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
sec-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
tert-Butylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0		101	70-130			
Carbon Disulfide	79.6	5.0	µg/L	100		79.6	70-130			
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103	70-130			
Chlorobenzene	9.97	1.0	µg/L	10.0		99.7	70-130			
Chlorodibromomethane	9.55	0.50	µg/L	10.0		95.5	70-130			
Chloroethane	9.90	2.0	µg/L	10.0		99.0	70-130			

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 B339678 - SW-846 5030B										
LCS (B339678-BS1)										
					Prepared: 05/09/23 Analyzed: 05/10/23					
Chloroform	10.5	2.0	µg/L	10.0		105	70-130			
Chloromethane	7.40	2.0	µg/L	10.0		74.0	40-160			V-05, V-34 †
2-Chlorotoluene	9.06	1.0	µg/L	10.0		90.6	70-130			
4-Chlorotoluene	9.87	1.0	µg/L	10.0		98.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106	70-130			
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100	70-130			
Dibromomethane	9.93	1.0	µg/L	10.0		99.3	70-130			
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130			
1,4-Dichlorobenzene	9.94	1.0	µg/L	10.0		99.4	70-130			
trans-1,4-Dichloro-2-butene	9.95	2.0	µg/L	10.0		99.5	70-130			
Dichlorodifluoromethane (Freon 12)	8.73	2.0	µg/L	10.0		87.3	40-160			V-34 †
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,2-Dichloroethane	9.92	1.0	µg/L	10.0		99.2	70-130			
1,1-Dichloroethylene	9.57	1.0	µg/L	10.0		95.7	70-130			
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
trans-1,2-Dichloroethylene	9.93	1.0	µg/L	10.0		99.3	70-130			
1,2-Dichloropropane	9.92	1.0	µg/L	10.0		99.2	70-130			
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104	70-130			
2,2-Dichloropropane	10.0	1.0	µg/L	10.0		100	40-130			†
1,1-Dichloropropene	10.4	2.0	µg/L	10.0		104	70-130			
cis-1,3-Dichloropropene	9.57	0.50	µg/L	10.0		95.7	70-130			
trans-1,3-Dichloropropene	9.30	0.50	µg/L	10.0		93.0	70-130			
Diethyl Ether	10.0	2.0	µg/L	10.0		100	70-130			
Diisopropyl Ether (DIPE)	10.2	0.50	µg/L	10.0		102	70-130			
1,4-Dioxane	104	50	µg/L	100		104	40-130			†
Ethylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
Hexachlorobutadiene	10.7	0.60	µg/L	10.0		107	70-130			
2-Hexanone (MBK)	115	10	µg/L	100		115	70-160			†
Isopropylbenzene (Cumene)	9.81	1.0	µg/L	10.0		98.1	70-130			
p-Isopropyltoluene (p-Cymene)	9.78	1.0	µg/L	10.0		97.8	70-130			
Methyl Acetate	8.64	1.0	µg/L	10.0		86.4	70-130			
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101	70-130			
Methyl Cyclohexane	9.55	1.0	µg/L	10.0		95.5	70-130			
Methylene Chloride	10.3	5.0	µg/L	10.0		103	70-130			R-05
4-Methyl-2-pentanone (MIBK)	111	10	µg/L	100		111	70-160			†
Naphthalene	10.1	2.0	µg/L	10.0		101	40-130			†
n-Propylbenzene	9.95	1.0	µg/L	10.0		99.5	70-130			
Styrene	9.83	1.0	µg/L	10.0		98.3	70-130			
1,1,1,2-Tetrachloroethane	9.75	1.0	µg/L	10.0		97.5	70-130			
1,1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106	70-130			
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Tetrahydrofuran	10.0	10	µg/L	10.0		100	70-130			
Toluene	9.91	1.0	µg/L	10.0		99.1	70-130			
1,2,3-Trichlorobenzene	10.4	5.0	µg/L	10.0		104	70-130			
1,2,4-Trichlorobenzene	9.91	1.0	µg/L	10.0		99.1	70-130			
1,3,5-Trichlorobenzene	9.78	1.0	µg/L	10.0		97.8	70-130			
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
Trichloroethylene	9.80	1.0	µg/L	10.0		98.0	70-130			
Trichlorofluoromethane (Freon 11)	9.65	2.0	µg/L	10.0		96.5	70-130			
1,2,3-Trichloropropane	10.7	2.0	µg/L	10.0		107	70-130			

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 B339678 - SW-846 5030B										
LCS (B339678-BS1)										
Prepared: 05/09/23 Analyzed: 05/10/23										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.0		107	70-130			R-05
1,2,4-Trimethylbenzene	9.88	1.0	µg/L	10.0		98.8	70-130			
1,3,5-Trimethylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130			
Vinyl Chloride	10.2	2.0	µg/L	10.0		102	40-160			†
m+p Xylene	19.7	2.0	µg/L	20.0		98.5	70-130			
o-Xylene	10.0	1.0	µg/L	10.0		100	70-130			
Xylenes (total)	29.7	1.0	µg/L	30.0		99.0	0-200			
Surrogate: 1,2-Dichloroethane-d4	27.0		µg/L	25.0		108	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.3	70-130			
LCS Dup (B339678-BSD1)										
Prepared: 05/09/23 Analyzed: 05/10/23										
Acetone	113	50	µg/L	100		113	70-160	2.06	25	†
Acrylonitrile	7.92	5.0	µg/L	10.0		79.2	70-130	26.5 *	25	R-05
tert-Amyl Methyl Ether (TAME)	9.60	0.50	µg/L	10.0		96.0	70-130	0.209	25	
Benzene	9.69	1.0	µg/L	10.0		96.9	70-130	3.05	25	
Bromobenzene	10.1	1.0	µg/L	10.0		101	70-130	1.50	25	
Bromochloromethane	10.2	1.0	µg/L	10.0		102	70-130	1.36	25	
Bromodichloromethane	9.58	0.50	µg/L	10.0		95.8	70-130	1.26	25	
Bromoform	9.73	1.0	µg/L	10.0		97.3	70-130	1.35	25	
Bromomethane	9.59	2.0	µg/L	10.0		95.9	40-160	10.2	25	†
2-Butanone (MEK)	113	20	µg/L	100		113	40-160	0.247	25	†
tert-Butyl Alcohol (TBA)	77.6	20	µg/L	100		77.6	40-160	34.9 *	25	R-05 †
n-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	1.84	25	
sec-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130	0.793	25	
tert-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130	2.42	25	
tert-Butyl Ethyl Ether (TBEE)	9.96	0.50	µg/L	10.0		99.6	70-130	1.79	25	
Carbon Disulfide	75.8	5.0	µg/L	100		75.8	70-130	4.85	25	
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130	2.26	25	
Chlorobenzene	9.98	1.0	µg/L	10.0		99.8	70-130	0.100	25	
Chlorodibromomethane	9.77	0.50	µg/L	10.0		97.7	70-130	2.28	25	
Chloroethane	9.68	2.0	µg/L	10.0		96.8	70-130	2.25	25	
Chloroform	10.2	2.0	µg/L	10.0		102	70-130	2.32	25	
Chloromethane	8.41	2.0	µg/L	10.0		84.1	40-160	12.8	25	V-05, V-34 †
2-Chlorotoluene	9.23	1.0	µg/L	10.0		92.3	70-130	1.86	25	
4-Chlorotoluene	9.96	1.0	µg/L	10.0		99.6	70-130	0.908	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.8	5.0	µg/L	10.0		108	70-130	1.87	25	
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130	1.09	25	
Dibromomethane	10.3	1.0	µg/L	10.0		103	70-130	3.56	25	
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	3.08	25	
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	1.37	25	
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	3.65	25	
trans-1,4-Dichloro-2-butene	9.89	2.0	µg/L	10.0		98.9	70-130	0.605	25	
Dichlorodifluoromethane (Freon 12)	8.41	2.0	µg/L	10.0		84.1	40-160	3.73	25	V-34 †
1,1-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130	2.65	25	
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130	2.29	25	
1,1-Dichloroethylene	9.45	1.0	µg/L	10.0		94.5	70-130	1.26	25	
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	3.79	25	
trans-1,2-Dichloroethylene	9.47	1.0	µg/L	10.0		94.7	70-130	4.74	25	
1,2-Dichloropropane	9.92	1.0	µg/L	10.0		99.2	70-130	0.00	25	
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130	2.83	25	
2,2-Dichloropropane	9.76	1.0	µg/L	10.0		97.6	40-130	2.83	25	†

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 B339678 - SW-846 5030B										
LCS Dup (B339678-BSD1)										
					Prepared: 05/09/23 Analyzed: 05/10/23					
1,1-Dichloropropene	10.0	2.0	µg/L	10.0	100	100	70-130	3.44	25	
cis-1,3-Dichloropropene	9.57	0.50	µg/L	10.0	95.7	100	70-130	0.00	25	
trans-1,3-Dichloropropene	9.36	0.50	µg/L	10.0	93.6	100	70-130	0.643	25	
Diethyl Ether	10.0	2.0	µg/L	10.0	100	100	70-130	0.299	25	
Diisopropyl Ether (DIPE)	10.2	0.50	µg/L	10.0	102	100	70-130	0.686	25	
1,4-Dioxane	109	50	µg/L	100	109	100	40-130	4.62	50	† ‡
Ethylbenzene	9.91	1.0	µg/L	10.0	99.1	100	70-130	1.30	25	
Hexachlorobutadiene	10.9	0.60	µg/L	10.0	109	100	70-130	1.85	25	
2-Hexanone (MBK)	114	10	µg/L	100	114	100	70-160	1.08	25	†
Isopropylbenzene (Cumene)	9.76	1.0	µg/L	10.0	97.6	100	70-130	0.511	25	
p-Isopropyltoluene (p-Cymene)	9.92	1.0	µg/L	10.0	99.2	100	70-130	1.42	25	
Methyl Acetate	7.64	1.0	µg/L	10.0	76.4	100	70-130	12.3	25	
Methyl tert-Butyl Ether (MTBE)	9.98	1.0	µg/L	10.0	99.8	100	70-130	1.29	25	
Methyl Cyclohexane	9.69	1.0	µg/L	10.0	96.9	100	70-130	1.46	25	
Methylene Chloride	7.76	5.0	µg/L	10.0	77.6	100	70-130	28.5 *	25	R-05
4-Methyl-2-pentanone (MIBK)	111	10	µg/L	100	111	100	70-160	0.00904	25	†
Naphthalene	10.8	2.0	µg/L	10.0	108	100	40-130	6.12	25	†
n-Propylbenzene	9.86	1.0	µg/L	10.0	98.6	100	70-130	0.909	25	
Styrene	9.82	1.0	µg/L	10.0	98.2	100	70-130	0.102	25	
1,1,1,2-Tetrachloroethane	9.58	1.0	µg/L	10.0	95.8	100	70-130	1.76	25	
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0	107	100	70-130	0.470	25	
Tetrachloroethylene	9.98	1.0	µg/L	10.0	99.8	100	70-130	1.98	25	
Tetrahydrofuran	10.0	10	µg/L	10.0	100	100	70-130	0.499	25	
Toluene	9.85	1.0	µg/L	10.0	98.5	100	70-130	0.607	25	
1,2,3-Trichlorobenzene	10.8	5.0	µg/L	10.0	108	100	70-130	3.66	25	
1,2,4-Trichlorobenzene	10.5	1.0	µg/L	10.0	105	100	70-130	5.69	25	
1,3,5-Trichlorobenzene	10.2	1.0	µg/L	10.0	102	100	70-130	4.60	25	
1,1,1-Trichloroethane	9.98	1.0	µg/L	10.0	99.8	100	70-130	3.45	25	
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0	105	100	70-130	1.72	25	
Trichloroethylene	9.98	1.0	µg/L	10.0	99.8	100	70-130	1.82	25	
Trichlorofluoromethane (Freon 11)	9.47	2.0	µg/L	10.0	94.7	100	70-130	1.88	25	
1,2,3-Trichloropropane	10.7	2.0	µg/L	10.0	107	100	70-130	0.560	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.12	1.0	µg/L	10.0	81.2	100	70-130	27.5 *	25	R-05
1,2,4-Trimethylbenzene	9.94	1.0	µg/L	10.0	99.4	100	70-130	0.605	25	
1,3,5-Trimethylbenzene	9.71	1.0	µg/L	10.0	97.1	100	70-130	0.821	25	
Vinyl Chloride	10.6	2.0	µg/L	10.0	106	100	40-160	3.46	25	†
m+p Xylene	19.5	2.0	µg/L	20.0	97.6	100	70-130	0.867	25	
o-Xylene	9.92	1.0	µg/L	10.0	99.2	100	70-130	0.803	25	
Xylenes (total)	29.4	1.0	µg/L	30.0	98.2	100	0-200	0.845		
Surrogate: 1,2-Dichloroethane-d4	27.1		µg/L	25.0	108	100	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0	101	100	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0	98.4	100	70-130			

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 B340077 - SW-846 5030B										
Blank (B340077-BLK1)										
Prepared & Analyzed: 05/15/23										
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							R-05, V-05, V-34
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							V-34
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
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							

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 B340077 - SW-846 5030B
Blank (B340077-BLK1)

Prepared & Analyzed: 05/15/23

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							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	27.1		µg/L	25.0		109	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	23.8		µg/L	25.0		95.4	70-130			

LCS (B340077-BS1)

Prepared & Analyzed: 05/15/23

Acetone	105	50	µg/L	100		105	70-160			†
Acrylonitrile	10.1	5.0	µg/L	10.0		101	70-130			
tert-Amyl Methyl Ether (TAME)	10.4	0.50	µg/L	10.0		104	70-130			
Benzene	11.0	1.0	µg/L	10.0		110	70-130			
Bromobenzene	11.0	1.0	µg/L	10.0		110	70-130			
Bromochloromethane	11.9	1.0	µg/L	10.0		119	70-130			V-20
Bromodichloromethane	10.5	0.50	µg/L	10.0		105	70-130			
Bromoform	9.18	1.0	µg/L	10.0		91.8	70-130			
Bromomethane	7.92	2.0	µg/L	10.0		79.2	40-160			V-05 †
2-Butanone (MEK)	111	20	µg/L	100		111	40-160			†
tert-Butyl Alcohol (TBA)	104	20	µg/L	100		104	40-160			†
n-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	µg/L	10.0		109	70-130			
Carbon Disulfide	85.5	5.0	µg/L	100		85.5	70-130			
Carbon Tetrachloride	10.8	5.0	µg/L	10.0		108	70-130			
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	70-130			
Chloroethane	10.7	2.0	µg/L	10.0		107	70-130			

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 B340077 - SW-846 5030B										
LCS (B340077-BS1)										
Prepared & Analyzed: 05/15/23										
Chloroform	11.4	2.0	µg/L	10.0		114	70-130			
Chloromethane	7.81	2.0	µg/L	10.0		78.1	40-160			R-05, V-05, V-34 †
2-Chlorotoluene	9.75	1.0	µg/L	10.0		97.5	70-130			
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			V-20
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106	70-130			
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130			
Dibromomethane	11.0	1.0	µg/L	10.0		110	70-130			
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
trans-1,4-Dichloro-2-butene	10.9	2.0	µg/L	10.0		109	70-130			
Dichlorodifluoromethane (Freon 12)	9.24	2.0	µg/L	10.0		92.4	40-160			V-34 †
1,1-Dichloroethane	11.8	1.0	µg/L	10.0		118	70-130			
1,2-Dichloroethane	10.8	1.0	µg/L	10.0		108	70-130			
1,1-Dichloroethylene	9.83	1.0	µg/L	10.0		98.3	70-130			
cis-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130			
trans-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130			
1,2-Dichloropropane	11.1	1.0	µg/L	10.0		111	70-130			
1,3-Dichloropropane	10.9	0.50	µg/L	10.0		109	70-130			
2,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	40-130			†
1,1-Dichloropropene	11.1	2.0	µg/L	10.0		111	70-130			
cis-1,3-Dichloropropene	11.4	0.50	µg/L	10.0		114	70-130			
trans-1,3-Dichloropropene	11.5	0.50	µg/L	10.0		115	70-130			
Diethyl Ether	10.1	2.0	µg/L	10.0		101	70-130			
Diisopropyl Ether (DIPE)	11.2	0.50	µg/L	10.0		112	70-130			
1,4-Dioxane	112	50	µg/L	100		112	40-130			†
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Hexachlorobutadiene	10.8	0.60	µg/L	10.0		108	70-130			
2-Hexanone (MBK)	114	10	µg/L	100		114	70-160			†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130			
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.0		106	70-130			
Methyl Acetate	11.1	1.0	µg/L	10.0		111	70-130			
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.0		106	70-130			
Methyl Cyclohexane	9.71	1.0	µg/L	10.0		97.1	70-130			
Methylene Chloride	9.23	5.0	µg/L	10.0		92.3	70-130			
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100		113	70-160			†
Naphthalene	10.0	2.0	µg/L	10.0		100	40-130			†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1,2-Tetrachloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105	70-130			
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
Tetrahydrofuran	11.4	10	µg/L	10.0		114	70-130			
Toluene	10.9	1.0	µg/L	10.0		109	70-130			
1,2,3-Trichlorobenzene	10.6	5.0	µg/L	10.0		106	70-130			
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,3,5-Trichlorobenzene	9.83	1.0	µg/L	10.0		98.3	70-130			
1,1,1-Trichloroethane	11.3	1.0	µg/L	10.0		113	70-130			
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130			
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Trichlorofluoromethane (Freon 11)	9.51	2.0	µg/L	10.0		95.1	70-130			
1,2,3-Trichloropropane	11.1	2.0	µg/L	10.0		111	70-130			

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 B340077 - SW-846 5030B										
LCS (B340077-BS1)										
Prepared & Analyzed: 05/15/23										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.35	1.0	µg/L	10.0		83.5	70-130			
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130			V-20
Vinyl Chloride	11.4	2.0	µg/L	10.0		114	40-160			V-20 †
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130			
o-Xylene	10.9	1.0	µg/L	10.0		109	70-130			
Xylenes (total)	32.1	1.0	µg/L	30.0		107	0-200			
Surrogate: 1,2-Dichloroethane-d4	27.8		µg/L	25.0		111	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.2	70-130			
LCS Dup (B340077-BSD1)										
Prepared & Analyzed: 05/15/23										
Acetone	109	50	µg/L	100		109	70-160	3.35	25	†
Acrylonitrile	9.91	5.0	µg/L	10.0		99.1	70-130	1.50	25	
tert-Amyl Methyl Ether (TAME)	10.6	0.50	µg/L	10.0		106	70-130	1.62	25	
Benzene	11.1	1.0	µg/L	10.0		111	70-130	0.723	25	
Bromobenzene	11.1	1.0	µg/L	10.0		111	70-130	0.633	25	
Bromochloromethane	11.9	1.0	µg/L	10.0		119	70-130	0.336	25	V-20
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130	0.665	25	
Bromoform	9.23	1.0	µg/L	10.0		92.3	70-130	0.543	25	
Bromomethane	9.71	2.0	µg/L	10.0		97.1	40-160	20.3	25	V-05 †
2-Butanone (MEK)	108	20	µg/L	100		108	40-160	3.00	25	†
tert-Butyl Alcohol (TBA)	98.8	20	µg/L	100		98.8	40-160	5.08	25	†
n-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	1.30	25	
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130	0.188	25	
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	2.25	25	
tert-Butyl Ethyl Ether (TBEE)	11.0	0.50	µg/L	10.0		110	70-130	0.825	25	
Carbon Disulfide	87.6	5.0	µg/L	100		87.6	70-130	2.45	25	
Carbon Tetrachloride	11.2	5.0	µg/L	10.0		112	70-130	2.91	25	
Chlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	2.50	25	
Chlorodibromomethane	10.8	0.50	µg/L	10.0		108	70-130	3.30	25	
Chloroethane	11.3	2.0	µg/L	10.0		113	70-130	5.63	25	
Chloroform	11.4	2.0	µg/L	10.0		114	70-130	0.263	25	
Chloromethane	10.2	2.0	µg/L	10.0		102	40-160	27.0 *	25	R-05, V-05, V-34 †
2-Chlorotoluene	9.98	1.0	µg/L	10.0		99.8	70-130	2.33	25	
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130	3.99	25	V-20
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.0		102	70-130	3.75	25	
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.0		114	70-130	5.14	25	
Dibromomethane	11.2	1.0	µg/L	10.0		112	70-130	1.62	25	
1,2-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	0.724	25	
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	0.456	25	
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	0.913	25	
trans-1,4-Dichloro-2-butene	10.7	2.0	µg/L	10.0		107	70-130	2.04	25	
Dichlorodifluoromethane (Freon 12)	9.21	2.0	µg/L	10.0		92.1	40-160	0.325	25	V-34 †
1,1-Dichloroethane	11.8	1.0	µg/L	10.0		118	70-130	0.339	25	
1,2-Dichloroethane	11.2	1.0	µg/L	10.0		112	70-130	3.18	25	
1,1-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130	2.11	25	
cis-1,2-Dichloroethylene	11.8	1.0	µg/L	10.0		118	70-130	0.941	25	
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	0.445	25	
1,2-Dichloropropane	11.1	1.0	µg/L	10.0		111	70-130	0.180	25	
1,3-Dichloropropane	11.6	0.50	µg/L	10.0		116	70-130	5.42	25	
2,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	40-130	0.433	25	†

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 B340077 - SW-846 5030B										
LCS Dup (B340077-BSD1)										
Prepared & Analyzed: 05/15/23										
1,1-Dichloropropene	11.2	2.0	µg/L	10.0		112	70-130	0.716	25	
cis-1,3-Dichloropropene	11.7	0.50	µg/L	10.0		117	70-130	2.51	25	
trans-1,3-Dichloropropene	11.8	0.50	µg/L	10.0		118	70-130	2.41	25	
Diethyl Ether	10.4	2.0	µg/L	10.0		104	70-130	2.25	25	
Diisopropyl Ether (DIPE)	11.0	0.50	µg/L	10.0		110	70-130	1.90	25	
1,4-Dioxane	110	50	µg/L	100		110	40-130	1.41	50	† ‡
Ethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	2.78	25	
Hexachlorobutadiene	10.8	0.60	µg/L	10.0		108	70-130	0.926	25	
2-Hexanone (MBK)	118	10	µg/L	100		118	70-160	3.18	25	†
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.0		107	70-130	3.42	25	
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.0		106	70-130	0.471	25	
Methyl Acetate	9.98	1.0	µg/L	10.0		99.8	70-130	10.7	25	
Methyl tert-Butyl Ether (MTBE)	11.0	1.0	µg/L	10.0		110	70-130	3.72	25	
Methyl Cyclohexane	9.97	1.0	µg/L	10.0		99.7	70-130	2.64	25	
Methylene Chloride	9.20	5.0	µg/L	10.0		92.0	70-130	0.326	25	
4-Methyl-2-pentanone (MIBK)	116	10	µg/L	100		116	70-160	3.15	25	†
Naphthalene	10.2	2.0	µg/L	10.0		102	40-130	2.17	25	†
n-Propylbenzene	10.9	1.0	µg/L	10.0		109	70-130	2.42	25	
Styrene	10.6	1.0	µg/L	10.0		106	70-130	2.38	25	
1,1,1,2-Tetrachloroethane	10.2	1.0	µg/L	10.0		102	70-130	1.17	25	
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.0		109	70-130	3.94	25	
Tetrachloroethylene	11.1	1.0	µg/L	10.0		111	70-130	1.18	25	
Tetrahydrofuran	11.8	10	µg/L	10.0		118	70-130	3.45	25	
Toluene	11.2	1.0	µg/L	10.0		112	70-130	2.99	25	
1,2,3-Trichlorobenzene	11.0	5.0	µg/L	10.0		110	70-130	3.62	25	
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	0.578	25	
1,3,5-Trichlorobenzene	9.79	1.0	µg/L	10.0		97.9	70-130	0.408	25	
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130	1.49	25	
1,1,2-Trichloroethane	11.6	1.0	µg/L	10.0		116	70-130	5.39	25	
Trichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	4.02	25	
Trichlorofluoromethane (Freon 11)	9.65	2.0	µg/L	10.0		96.5	70-130	1.46	25	
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.0		115	70-130	3.27	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.56	1.0	µg/L	10.0		85.6	70-130	2.48	25	
1,2,4-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	0.744	25	
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	2.67	25	V-20
Vinyl Chloride	11.8	2.0	µg/L	10.0		118	40-160	3.63	25	V-20 †
m+p Xylene	21.6	2.0	µg/L	20.0		108	70-130	1.68	25	
o-Xylene	11.2	1.0	µg/L	10.0		112	70-130	2.99	25	
Xylenes (total)	32.8	1.0	µg/L	30.0		109	0-200	2.12		
Surrogate: 1,2-Dichloroethane-d4	27.4		µg/L	25.0		110	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			

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

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B339248 - SW-846 3510C									
Blank (B339248-BLK1)					Prepared: 05/04/23 Analyzed: 05/05/23				
TPH (C9-C36)	ND	0.20	mg/L						
Surrogate: 2-Fluorobiphenyl	0.0717		mg/L	0.100		71.7 40-140			
LCS (B339248-BS1)					Prepared: 05/04/23 Analyzed: 05/05/23				
TPH (C9-C36)	0.755	0.20	mg/L	1.00		75.5 40-140			
Surrogate: 2-Fluorobiphenyl	0.0766		mg/L	0.100		76.6 40-140			
LCS Dup (B339248-BSD1)					Prepared: 05/04/23 Analyzed: 05/05/23				
TPH (C9-C36)	0.740	0.20	mg/L	1.00		74.0 40-140	2.00	25	
Surrogate: 2-Fluorobiphenyl	0.0741		mg/L	0.100		74.1 40-140			

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

QUALITY CONTROL
Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B339654 - SW-846 3005A Dissolved										
Blank (B339654-BLK1)				Prepared: 05/08/23 Analyzed: 05/11/23						
Lead	ND	0.50	µg/L							
LCS (B339654-BS1)				Prepared: 05/08/23 Analyzed: 05/11/23						
Lead	492	5.0	µg/L	500		98.5	80-120			
LCS Dup (B339654-BSD1)				Prepared: 05/08/23 Analyzed: 05/11/23						
Lead	495	5.0	µg/L	500		98.9	80-120	0.485	20	
Duplicate (B339654-DUP1)				Source: 23E0621-19			Prepared: 05/08/23 Analyzed: 05/11/23			
Lead	ND	0.50	µg/L		ND			NC	20	
Matrix Spike (B339654-MS1)				Source: 23E0621-19 Prepared: 05/08/23 Analyzed: 05/11/23						
Lead	493	5.0	µg/L	500	ND	98.6	75-125			

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
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-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
Z-01	Sample chromatogram most closely matches transformer oil.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
SW-846 6020B in Water	
Lead	CT,NH,NY,NC,ME,VA
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
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
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
Xylenes (total)	ME,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-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

Phone: 413-525-2332
 Fax: 413-525-6405



Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>
 Aptim Environmental & Infrastructure, LLC
 150 Royal Street, Canton, MA 02021
 Address: 617-794-1767
 Project Name: Tectron Providence
 Project Location: 333 Adelaide Avenue, Providence, RI
 Project Number: 631010697 - 005
 Project Manager: Catherine Joe
 PO 216859
 Pace Analytical Quote Name/Number
 Invoice Recipient: Catherine Joe
 Sampled By: Dan Leahy 617-212-8276

CHAIN OF CUSTODY RECORD
 39 Spruce Street
 East Longmeadow, MA 01028

Doc # 381 Rev 4_01/08/2020

Page 1 of 3

Pace Analytical Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	ANALYSIS REQUESTED				Preservation Code Counter Use Only Total Number Of:		
							VIALS	GLASS	PLASTIC	BACTERIA		VIALS	GLASS
1	MW-2023-20230501	5/1/23	0815	G	GW	U	2						
2	MW-2023-20230501	5/1/23	0840	G	GW	U	2						
3	MW-2023-20230501	5/1/23	0900	G	GW	U	2						
4	MW-2023-20230501	5/1/23	0930	G	GW	U	2						
5	MW-2023-20230501	5/1/23	1000	G	GW	U	2						
6	MW-2023-20230501	5/1/23	1000	G	GW	U	2						
7	MW-2023-20230501	5/1/23	1030	G	GW	U	2						
8	MW-2023-20230501	5/1/23	1100	G	GW	U	2						
9	MW-2023-20230501	5/1/23	1130	G	GW	U	2						
10	MW-2023-20230501	5/1/23	1200	G	GW	U	2						
Special Requirements: MA MCP Required <input type="checkbox"/> MA MCP Required possible sample concentration within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown MCP Certification Form Required <input type="checkbox"/> CT RCP Required RCP Certification Form Required <input type="checkbox"/> MA State DW Required <input type="checkbox"/> PWSID # Other: MA, CT, Other: NELAC, AHA, DPL, LLC, AS, etc.													
Project Entity: Government <input type="checkbox"/> Municipality <input type="checkbox"/> WRTA <input type="checkbox"/> Other <input type="checkbox"/> Federal City <input type="checkbox"/> City <input type="checkbox"/> MBTA <input type="checkbox"/> School <input type="checkbox"/> Chromatogram <input type="checkbox"/> Brownfield <input type="checkbox"/> MBTA <input type="checkbox"/> AHA-LAP, LLC <input type="checkbox"/>													

Relinquished by: (signature) Date/Time: 5/2/23
 Received by: (signature) Date/Time: 5/3/23 1545
 Relinquished by: (signature) Date/Time: 5/3/23 1811
 Received by: (signature) Date/Time: 5/3/23 1815
 Relinquished by: (signature) Date/Time:
 Received by: (signature) Date/Time:
 Relinquished by: (signature) Date/Time:
 Received by: (signature) Date/Time:
 Lab Comments:
 Client Comments:
 Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

Phone: 413-525-2332
Fax: 413-525-6405



Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>
Company Name: Aptim Environmental & Infrastructure, LLC
Address: 150 Royal Street, Canton, MA 02021
Phone: 617-794-1767
Project Location: 333 Adelalade Avenue, Providence, RI
Project Number: 631010697 - 005
Project Manager: Catherine Joe
Pace Analytical Quote Name/Number: PO 216839
Invoice Recipient: Catherine Joe
Sampled By: Dan Leahy 617-212-8276

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 4_01/08/2020

Page 23 of 23

CHAIN OF CUSTODY RECORD

Requesting Laboratory Name: Dissolved Metals Samples

7-Day PFAS 10-Day (std) Due Date: 10-Day
1-Day 3-Day 4-Day
2-Day
Format: PDF EXCEL
Other: Equis Format
CLP Like Data Pkg Required:
Email To: catherine.joe@aptim.com
Fax To #:

Requesting Laboratory Name: Ortho Metals Samples
Field Filtered Lab to Filter
Field Filtered Lab to Filter
Data Delivery
SOXHLET
NON SOXHLET

Pace Analytical Work Order #	Client Sample ID / Description	Beginning Date / Time	Ending Date / Time	COMP / GRAB	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	ANALYSIS REQUESTED	Preservation Code
11 MW-2165-20230501	5/11/23 1230	G	GW	U	2								Counter Use Only Total Number Of: VIALS GLASS PLASTIC BACTERIA ENCORE
12 MW-2168-20230501	5/11/23 1300	G	GW	U	2							Total Petroleum Hydrocarbons	Classware in the fridge? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Classware in freezer? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Prepackaged Cooler? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
13 MW-209D-20230501	5/11/23 1330	G	GW	U	2							EPA 8260C (VOCs)	*Pace Analytical is not responsible for missing samples from prepacked coolers
14 MW-112-20230501	5/11/23 1400	G	GW	U	2								Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define)
15 MW-2185-20230501	5/11/23 1430	G	GW	U	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)
16 MW-218D-20230501	5/11/23 1500	G	GW	U	2								
17 CW-6-20230502	5/11/23 1100	G	GW	U	2								
18 CW-6-20230502 DWP	5/11/23 1100	G	GW	U	2								
19 G2A-3-20230502	5/12/23 1230	G	GW	U	2								
20 G2A-3-20230502 DWP	5/12/23 1230	G	GW	U	2								

Relinquished by (signature) [Signature]
Received by (signature) [Signature] Date/Time: 5/12/23 1600
Relinquished by (signature) [Signature] Date/Time: 5/13/23 1545
Received by (signature) [Signature] Date/Time: 5/13/23 1815
Relinquished by (signature) [Signature] Date/Time: 5/13/23 1815

Special Requirements: MA MCP Required, MCP Certification Form Required, CT RCP Required, RCP Certification Form Required, MA State DW Required, PWSID #
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
Chromatogram
AWRA
School
MBTA
WRTA
Other: Chromatogram
 ALPHA-LAP, LLC

Project Entity: Government, Federal, City, Municipality, 21 J, Brownfield
Client Comments: PACE ANALYTICAL, LLC RECEIVED

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

Phone: 413-525-2332
 Fax: 413-525-6405

Pace Analytical

Company Name: Aptim Environmental & Infrastructure, LLC
 Address: 150 Royal Street, Canton, MA 02021
 Phone: 617-794-1767
 Project Location: 333 Adelaide Avenue, Providence, RI
 Project Number: 631010697 - 005
 Project Manager: Catherine Joe
 Invoice Recipient: Catherine Joe
 Sampled By: Dan Leahy 617-212-8276

Doc # 381 Rev 4_01/08/2020
 CHAIN OF CUSTODY RECORD
 39 Spruce Street
 East Longmeadow, MA 01028

Page 3 of 3

Requested Turnaround Time: 7-Day 10-Day 15-Day
Due Date:
Request Approval Required: 1-Day 2-Day 3-Day 4-Day
Format: PDF EXCEL
Other: Equis Format
CLP Like Data Pkg Required:
Email To: catharine.joe@aptim.com
Fax To #:

Pace Analytical Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	Disinfectant Residuals				Soxhlet		PCB ONLY		Special Requirements			
							VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	ENCORE	ENCORE	MA MCP Required	MCP Certification Form Required	CT RCP Required	RCP Certification Form Required	MA State DW Required
21	MW-109D-20230502	5/22/23	1300	G	GW	U	2	1	1	1	1	1						
22	GW-1-20230502	5/23/23	1330	G	GW	U	2	1	1	1	1							
23	GW-20230502	5/23/23	1400	G	GW	U	2	1	1	1	1							
24	MW-116D-20230502	5/23/23	1430	G	GW	U	2	1	1	1	1							
25	MW-116S-20230502	5/23/23	1500	G	GW	U	2	1	1	1	1							
26	TB-1-20230502	5/23/23	1515	G	LW	U	2	1	1	1	1							

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

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)

Special Requirements:
 MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required
 PWSID #

Project Entity:
 Government Municipality
 Federal 21 J
 City Brownfield

Other:
 WRTA
 MWRA
 School
 MBTA
 Chromatogram
 AIHA-LAP, LLC

ANALYSIS REQUESTED:
 EPA 8260C (VOCs) 2
 Dissolved Lead 1
 Total Petroleum Hydrocarbons 1
 Glassware in the fridge? (Y/N) Y/N
 Glassware in freezer? (Y/N) Y/N
 Prepackaged Cooler (Y/N) Y/N

Preservation Code:
 Container Use Only
 Total Number Of:
 VIALS
 GLASS
 PLASTIC
 BACTERIA
 ENCORE

*Pace Analytical is not responsible for missing samples from prepacked coolers.

Signature:
 Received by: (signature)
 Date/Time: 5/23/23 1545
 Relinquished by: (signature)
 Date/Time: 5/23/23 1815
 Relinquished by: (signature)
 Date/Time: 5/23/23 1815
 Relinquished by: (signature)
 Date/Time: 5/23/23 1815

Client Comments:
 NELAP 1043-19-001, AP, LP, LLC, ACCREDITED

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.pacelabs.com

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing
 – Using Acceptance Policy) Any False statement will be
 brought to the attention of the Client – True or False



Client Aptim
 Project Textron Providence
 MCP/RCP Required No
 Deliverable Package Req. No
 Location Providence, RI
 PWSID# (When Applicable) NA
 Arrival Method:
 Courier Fed Ex Walk In Other
 Received By / Date / Time DWW 5/2/23 1815
 Back-Sheet By / Date / Time CR 5/3/23 2140
 Temperature Method GUM # J
 Temp < 6° C Actual Temperature 32
 Rush Samples: Yes / No Notify _____
 Short Hold: Yes / No Notify _____

	True	False
Received on Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Received in Cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Custody Seal: DATE TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples Labels Agree	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Samples in Good Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples Received within Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there enough Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper Media/Container Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Splitting Samples Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MS/MSD	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blanks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lab to Filters	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Included: (Check all included)		
Client <input checked="" type="checkbox"/>	Analysis <input checked="" type="checkbox"/>	Sampler Name <input checked="" type="checkbox"/>
Project <input checked="" type="checkbox"/>	IDs <input checked="" type="checkbox"/>	Collection Date/Time <input type="checkbox"/>
All Samples Proper pH: N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Notes regarding Samples/COC outside of SOP:

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	Na2S2O3	Other Preservative	
1L <u>Amber</u> Plastic	<u>4</u>								
500 mL Amber Plastic									
250 mL Amber <u>Plastic</u>			<u>3</u>						
Other Amber Clear Plastic									
16oz Amber Clear									
8oz Amber Clear									
4oz Amber Clear									
2oz Amber Clear									
Col/Bacteria									
Flashpoint									
Plastic Bag									
SOC Kit									
Perchlorate									
Encore									
Frozen									
	Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials	<u>F</u>		<u>46</u>						