



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

June 8, 2022

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 2021 through May 2022 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 2022.

Field Activities

Limited VOC Sampling Activities February and May 2022

Limited groundwater gauging and sampling was conducted on February 8, 2022 and May 13, 2022. 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 8 and May 13, 2022. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Semi-Annual Groundwater Sampling Activities May 2022

The monitoring wells that comprise the larger semi-annual groundwater monitoring program were monitored for field parameters and sampled for analysis on May 12 and 13, 2022.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on May 12 and 13, 2022. 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 12 and 13, 2022 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 FD) 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 FD). 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 FD) 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 8, and May 12 and 13, 2022 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 6,300 µg/L on May 13, 2022 and MW-101S and its duplicate (MW-101S FD) at 370/370 µg/L, respectively, on May 12, 2022.

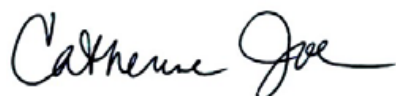
A summary of the compliance well results is contained in **Table 4**. The results for the compliance well sampling indicate there were no exceedances of the compliance standard for PCE at the Adelaide Avenue wells on February 8 or May 13, 2022.

Future Activities

Future limited sampling will be conducted in August 2022 and the larger semi-annual sampling event will be conducted in November 2022.

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 2021 – May 2022
Table 4 – Groundwater Analytical Results in Compliance Wells – December 2021 – May 2022

Figure 1 – Site Plan
Figure 2 – Injection Well Locations

Attachment A - Laboratory Analytical Reports

cc: Calissa Spooner - email
Greg Simpson, Textron - email
Greg Avenia, Wood PLC - email
Robert Azar, 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 8, 2022, certify that the information contained in this report is complete and accurate to the best of my knowledge.



Catherine Joe
Project Manager

6/8/2022

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.



Calissa Spooner
Project Manager

6.8.22

Date:

TABLES

Table 1
Summary Field Parameters
December 2021 - May 2022

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	05/12/2022	1.88	194.3	4.95	0.044	14.98
MW-101S	05/12/2022	0.4	159.5	5.83	0.306	15.59
MW-112	05/13/2022	5.86	205.9	6.14	0.705	14.28
MW-116D	05/13/2022	5.84	182.1	5.6	0.111	14.33
MW-116S	05/13/2022	6.22	198	5.45	0.129	14.7
MW-201D	05/12/2022	2.83	219.4	5.24	0.01	15.71
MW-202D	05/12/2022	3.38	293.7	4.08	0.02	16.05
MW-202S	05/12/2022	5.27	250.5	6.17	0.695	15.73
MW-207D	05/12/2022	3.19	169.7	5.78	0.019	15.95
MW-207S	05/12/2022	1.7	126.7	6.99	0.314	16.07
MW-209D	05/13/2022	4.55	184.2	5.88	0.027	14.53
MW-216D	05/13/2022	0.91	75.1	6.63	0.77	16.46
MW-216S	05/13/2022	0.57	22.4	6.86	1.217	15.62
MW-217D	05/13/2022	3.84	115.1	5.96	0.104	15.5
MW-217S	05/13/2022	0.92	23.2	6.98	1.881	15.54
MW-218D	05/13/2022	3.86	225.3	6.01	0.698	14.35
MW-218S	05/13/2022	5.26	230.3	6.24	0.649	14.2
Notes: C° = degrees Celsius mS/cm = millisiemens per centimeter mg/L = milligrams per liter mV = milli volts						

TABLE 2
GROUNDWATER ELEVATION DATA
(December 2021 - May 2022)
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	5/12/2022	99.52	24.98	--	--	74.54	DTB = 55.62 FT
CW-02	5/12/2022	98.86	24.23	--	--	74.63	DTB = 54.86 FT
CW-06	5/12/2022	99.52	24.56	--	--	74.96	DTB = 33.38 FT
GZA-3	5/12/2022	NA	17.18	--	--	NA	DTB = 22.10 FT
MW-101D	5/12/2022	98.91	24.19	--	--	74.72	DTB = 45.70 FT
MW-101S	5/12/2022	98.90	24.30	--	--	74.60	DTB = 28.59 FT
MW-109D	5/12/2022	NA	18.68	--	--	NA	DTB = 74.82 FT
MW-112	2/8/2022	100.63	26.56	--	--	74.07	DTB = 35.37 FT
	5/13/2022	100.63	26.02	--	--	74.61	DTB = 34.64 FT
MW-116D	2/8/2022	98.92	24.85	--	--	74.07	DTB = 44.38 FT
	5/13/2022	98.92	22.05	--	--	76.87	DTB = 44.18 FT
MW-116S	2/8/2022	99.40	18.03	--	--	81.37	DTB =19.60 FT
	5/13/2022	99.40	24.44	--	--	74.96	DTB = 25.82 FT
MW-201D	5/12/2022	98.80	24.02	--	--	74.78	DTB = 47.30 FT
MW-202D	5/12/2022	98.17	23.52	--	--	74.65	DTB = 46.50 FT
MW-202S	5/12/2022	98.06	23.57	--	--	74.49	DTB = 38.02 FT
MW-207D	5/12/2022	98.18	23.52	--	--	74.66	DTB = 50.48 FT
MW-207S	5/12/2022	98.28	23.47	--	--	74.81	DTB = 36.02 FT
MW-209D	5/13/2022	99.90	24.35	--	--	75.55	DTB = 62.68 FT
MW-216D	5/13/2022	98.69	24.80	--	--	73.89	DTB = 39.27 FT
MW-216S	5/13/2022	99.58	24.93	--	--	74.65	DTB = 29.79 FT
MW-217D	5/13/2022	98.65	24.31	--	--	74.34	DTB = 46.78 FT
MW-217S	5/13/2022	98.71	24.35	--	--	74.36	DTB = 26.34 FT
MW-218D	5/13/2022	99.67	25.01	--	--	74.66	DTB = 45.60 FT
MW-218S	5/13/2022	99.61	24.35	--	--	75.26	DTB = 29.60 FT
MW-220S	5/13/2022	99.41	22.65	--	--	76.76	DTB = 37.22 FT
MW-221S	5/13/2022	98.92	22.77	--	<0.01	76.15	

Notes:

Feet = feet measured below ground surface

NA = Not Available

NM = Not Measured

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2021 - May 2022

Former Gorham Manufacturing Facility
 Providence, Rhode Island

Parameter	Location Code	CW-01	CW-02	CW-06		GZA-3		MW-101D	MW-101S		MW-109D	
	Sample ID	CW-01-20220512	CW-02-020220512	CW-06-20220512	CW-06-20220512FD	GZA-3-20220512	GZA-3-20220512FD	MW-101D-20220512	MW-101S-20220512	MW-101S-20220512FD	MW-109D-20220512	
	Sample Date	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	
	Depth	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0
	Sample Purpose	N	N	N	FD	N	FD	N	N	FD	N	
Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
VOLATILES												
1,1,2-Trichloroethane	µg/L	< 10	< 1	---	---	< 1	---	< 1	2.6	< 1	< 1	
1,2,4-Trimethylbenzene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1	
1,3,5-Trimethylbenzene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1	
cis-1,2-Dichloroethene	µg/L	33	< 1	---	---	< 1	---	< 1	9.4	9.1	< 1	
Methyltert-butylether	µg/L	< 10	1.2	---	---	< 1	---	< 1	< 1	< 1	< 1	
Naphthalene	µg/L	< 20	< 2	---	---	< 2	---	< 2	< 2	< 2	< 2	
o-Xylene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1	
Tetrachloroethene	µg/L	< 10	< 1	---	---	< 1	---	4.8	370	370	< 1	
Trichloroethene	µg/L	450	< 1	---	---	< 1	---	< 1	17	17	< 1	
Vinyl chloride	µg/L	< 20	< 2	---	---	3.8	---	< 2	< 2	< 2	< 2	
Xylene (total)	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1	
TPH												
TPH	mg/L	---	---	11	12	---	---	---	---	---	---	
METALS, DISSOLVED												
Lead	µg/L	---	---	---	---	2.8	2	---	---	---	< 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 2021 - May 2022

Former Gorham Manufacturing Facility
 Providence, Rhode Island

	Location Code	MW-112		MW-116D		MW-116S		MW-201D	MW-202D	MW-202S	MW-207D	MW-207S
	Sample ID	MW-112-20220208	MW-112-20220513	MW-116D-20220208	MW-116D-20220513	MW-116S-20220208	MW-116S-20220513	MW-201D-20220512	MW-202D-20220512	MW-202S-20220512	MW-207D-20220512	MW-207S-20220512
	Sample Date	2/8/2022	5/13/2022	2/8/2022	5/13/2022	2/8/2022	5/13/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022
	Depth	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0
	Sample Purpose	N	N	N	N	N	N	N	N	N	N	N
Parameter	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOLATILES												
1,1,2-Trichloroethane	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyltert-butylether	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
o-Xylene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	µg/L	49	35	< 1	< 1	< 1	< 1	44	4.4	13	< 1	1.3
Trichloroethene	µg/L	2.6	1.8	< 1	< 1	< 1	< 1	8.2	< 1	< 1	< 1	< 1
Vinyl chloride	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Xylene (total)	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 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 2021 - May 2022

Former Gorham Manufacturing Facility
 Providence, Rhode Island

	Location Code	MW-209D	MW-216D	MW-216S	MW-217D	MW-217S	MW-218D	MW-218S
	Sample ID	MW-209D-20220513	MW-216D-20220513	MW-216S-20220513	MW-217D-20220513	MW-217S-20220513	MW-218D-20220513	MW-218S-20220513
	Sample Date	5/13/2022	5/13/2022	5/13/2022	5/13/2022	5/13/2022	5/13/2022	5/13/2022
	Depth	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0
	Sample Purpose	N	N	N	N	N	N	N
Parameter	Units	Result	Result	Result	Result	Result	Result	Result
VOLATILES								
1,1,2-Trichloroethane	µg/L	< 1	< 1	< 2	< 1	< 2	< 100	< 1
1,2,4-Trimethylbenzene	µg/L	< 1	< 1	6.9	< 1	< 2	< 100	< 1
1,3,5-Trimethylbenzene	µg/L	< 1	< 1	3.2	< 1	< 2	< 100	< 1
cis-1,2-Dichloroethene	µg/L	2.2	< 1	6.9	< 1	2.7	< 100	< 1
Methyltert-butylether	µg/L	< 1	< 1	< 2	< 1	< 2	< 100	< 1
Naphthalene	µg/L	< 2	< 2	11	< 2	< 4	< 200	< 2
o-Xylene	µg/L	< 1	< 1	6	< 1	< 2	< 100	< 1
Tetrachloroethene	µg/L	32	< 1	< 2	< 1	< 2	6300	36
Trichloroethene	µg/L	12	< 1	< 2	< 1	3.5	220	< 1
Vinyl chloride	µg/L	< 2	< 2	< 4	< 2	< 4	< 200	< 2
Xylene (total)	µg/L	< 1	< 1	8.6	< 1	< 2	< 100	< 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 4
Groundwater Analytical Results
December 2021 - May 2022

Former Gorham Manufacturing Facility
 Providence, Rhode Island

Mashapaug Pond Compliance Wells				
Sample ID	GZA-3	GZA-3	MW-109D	Compliance
Date Collected	5/12/2022	5/12/2022	5/12/2022	Standard ¹
CONSTITUENT	Primary	Duplicate 1	Primary	
Metals (mg/L)				
Lead	0.0028	0.002	<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	< 1	--	< 1	20,000
Vinyl chloride	3.8	--	< 2	1,200

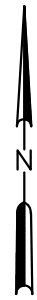
TPH Remediation Area Well			
Sample ID	CW-06	CW-06	Compliance
Date Collected	5/12/2022	5/12/2022	Standard ¹
CONSTITUENT	Primary	Duplicate	
TPH (mg/L)			
TPH	11	12	20

Sewer Interceptor Area Wells			
Sample ID	CW-01	CW-02	Compliance
Date Collected	5/12/2022	5/12/2022	Standard ²
CONSTITUENT	Primary	Primary	
VOCs (µg/L)			
1,1-Dichloroethane	< 10	< 1	120,000
1,1-Dichloroethene	< 10	< 1	23,000
cis-1,2-Dichloroethene	33	< 1	69,000
trans-1,2-Dichloroethene	< 10	< 1	79,000
Tetrachloroethene	< 10	< 1	NS
Trichloroethene	450	< 1	87,000

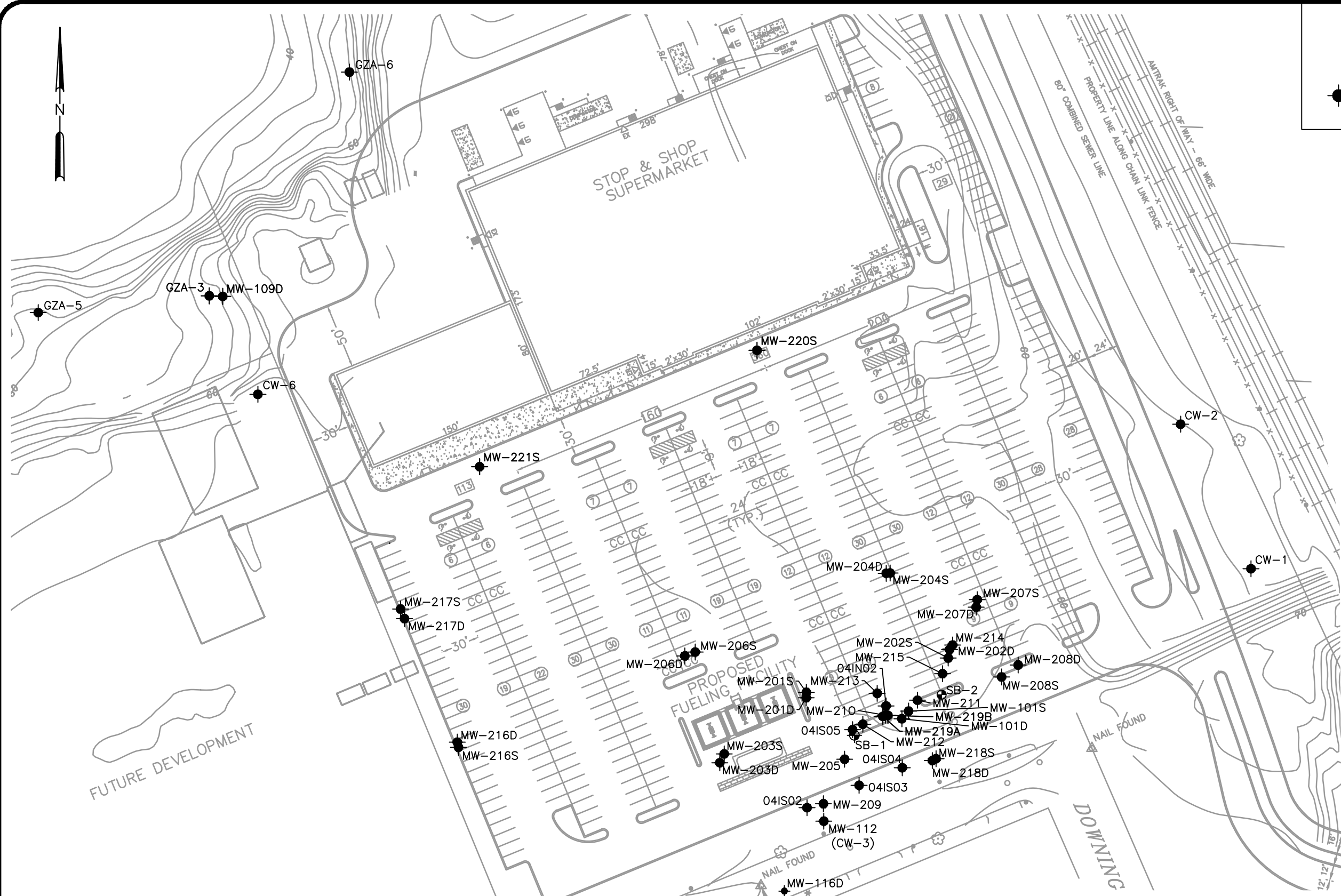
Adelaide Avenue Wells					
Sample ID	MW-112	MW-112	MW-209D	MW-218S	Compliance
Date Collected	2/8/2022	5/13/2022	5/13/2022	5/13/2022	Standard ³
CONSTITUENT	Primary	Primary	Primary	Primary	
VOCs (µg/L)					
1,1-Dichloroethane	< 1	< 1	< 1	< 1	2,400
1,1-Dichloroethene	< 1	< 1	< 1	< 1	7
cis-1,2-Dichloroethene	< 1	< 1	2.2	< 1	1,900
Methyl tert-butyl ether	< 1	< 1	< 1	< 1	5,000
Tetrachloroethene	49	35	32	36	150
Trichloroethene	2.6	1.8	12	< 1	540
Vinyl chloride	< 2	< 2	< 2	< 2	2

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

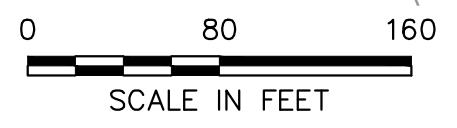
FIGURES



LEGEND
 ● MW-101S MONITORING WELL



File: L:\dwg\Corham\cntgf-02.dwg Layout: SP User: chris.desiata Jan 08, 2018 - 3:30pm
 1" 1/2" 0" 1"



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

ATTACHMENT A
LABORATORY REPORTS

February 10, 2022

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: 22B0404

Enclosed are results of analyses for samples as received by the laboratory on February 8, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott C. Basal
Project Manager

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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: 2/10/2022

PURCHASE ORDER NUMBER: 216859

PROJECT NUMBER: 631010697

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22B0404

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-112-20220208	22B0404-01	Ground Water		SW-846 8260D	
MW-116D-20220208	22B0404-02	Ground Water		SW-846 8260D	
MW-116S-20220208	22B0404-03	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-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Bromomethane

B300780-BS1, B300780-BSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Chloromethane

22B0404-01[MW-112-20220208], 22B0404-02[MW-116D-20220208], 22B0404-03[MW-116S-20220208], B300780-BLK1, B300780-BS1, B300780-BSD1, S068128-CCV1

Methyl Acetate

22B0404-01[MW-112-20220208], 22B0404-02[MW-116D-20220208], 22B0404-03[MW-116S-20220208], B300780-BLK1, B300780-BS1, B300780-BSD1, S068128-CCV1

Naphthalene

22B0404-01[MW-112-20220208], 22B0404-02[MW-116D-20220208], 22B0404-03[MW-116S-20220208], B300780-BLK1, B300780-BS1, B300780-BSD1, S068128-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B300780-BS1, B300780-BSD1, S068128-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:

Bromomethane

22B0404-01[MW-112-20220208], 22B0404-02[MW-116D-20220208], 22B0404-03[MW-116S-20220208], B300780-BLK1, B300780-BS1, B300780-BSD1, S068128-CCV1

Chloromethane

22B0404-01[MW-112-20220208], 22B0404-02[MW-116D-20220208], 22B0404-03[MW-116S-20220208], B300780-BLK1, B300780-BS1, B300780-BSD1, S068128-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: 333 Adelaide Ave, Providence, RI

Sample Description:

Work Order: 22B0404

Date Received: 2/8/2022

Field Sample #: MW-112-20220208

Sampled: 2/8/2022 10:30

Sample ID: 22B0404-01

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	2/9/22	2/9/22 18:06	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Bromomethane	ND	5.0	µg/L	1	V-34	SW-846 8260D	2/9/22	2/9/22 18:06	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	2/9/22	2/9/22 18:06	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD

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

Project Location: 333 Adelaide Ave, Providence, RI

Sample Description:

Work Order: 22B0404

Date Received: 2/8/2022

Field Sample #: MW-112-20220208

Sampled: 2/8/2022 10:30

Sample ID: 22B0404-01

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	2/9/22	2/9/22 18:06	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Methyl Acetate	ND	1.0	µg/L	1	V-05	SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/9/22	2/9/22 18:06	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Tetrachloroethylene	49	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Trichloroethylene	2.6	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 18:06	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	80.8	70-130						2/9/22 18:06	
Toluene-d8	96.0	70-130						2/9/22 18:06	
4-Bromofluorobenzene	96.0	70-130						2/9/22 18:06	

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

Project Location: 333 Adelaide Ave, Providence, RI

Sample Description:

Work Order: 22B0404

Date Received: 2/8/2022

Field Sample #: MW-116D-20220208

Sampled: 2/8/2022 12:00

Sample ID: 22B0404-02

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	2/9/22	2/9/22 17:14	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Bromomethane	ND	5.0	µg/L	1	V-34	SW-846 8260D	2/9/22	2/9/22 17:14	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	2/9/22	2/9/22 17:14	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD

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

Project Location: 333 Adelaide Ave, Providence, RI

Sample Description:

Work Order: 22B0404

Date Received: 2/8/2022

Field Sample #: MW-116D-20220208

Sampled: 2/8/2022 12:00

Sample ID: 22B0404-02

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	2/9/22	2/9/22 17:14	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Methyl Acetate	ND	1.0	µg/L	1	V-05	SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/9/22	2/9/22 17:14	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:14	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	82.1	70-130	2/9/22 17:14
Toluene-d8	95.6	70-130	2/9/22 17:14
4-Bromofluorobenzene	96.8	70-130	2/9/22 17:14

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

Project Location: 333 Adelaide Ave, Providence, RI

Sample Description:

Work Order: 22B0404

Date Received: 2/8/2022

Field Sample #: MW-116S-20220208

Sampled: 2/8/2022 11:15

Sample ID: 22B0404-03

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	2/9/22	2/9/22 17:40	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Bromomethane	ND	5.0	µg/L	1	V-34	SW-846 8260D	2/9/22	2/9/22 17:40	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	2/9/22	2/9/22 17:40	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD

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

Project Location: 333 Adelaide Ave, Providence, RI

Sample Description:

Work Order: 22B0404

Date Received: 2/8/2022

Field Sample #: MW-116S-20220208

Sampled: 2/8/2022 11:15

Sample ID: 22B0404-03

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	2/9/22	2/9/22 17:40	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Methyl Acetate	ND	1.0	µg/L	1	V-05	SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/9/22	2/9/22 17:40	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	2/9/22	2/9/22 17:40	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	83.8	70-130	2/9/22 17:40
Toluene-d8	94.0	70-130	2/9/22 17:40
4-Bromofluorobenzene	96.7	70-130	2/9/22 17:40

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
22B0404-01 [MW-112-20220208]	B300780	5	5.00	02/09/22
22B0404-02 [MW-116D-20220208]	B300780	5	5.00	02/09/22
22B0404-03 [MW-116S-20220208]	B300780	5	5.00	02/09/22

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 B300780 - SW-846 5030B										
Blank (B300780-BLK1)										
Prepared & Analyzed: 02/09/22										
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-34
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, 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							
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 B300780 - SW-846 5030B										
Blank (B300780-BLK1)										
Prepared & Analyzed: 02/09/22										
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							V-05
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	20.8		µg/L	25.0		83.1	70-130			
Surrogate: Toluene-d8	24.1		µg/L	25.0		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	23.8		µg/L	25.0		95.2	70-130			
LCS (B300780-BS1)										
Prepared & Analyzed: 02/09/22										
Acetone	93.5	50	µg/L	100		93.5	70-160			†
Acrylonitrile	9.55	5.0	µg/L	10.0		95.5	70-130			
tert-Amyl Methyl Ether (TAME)	9.83	0.50	µg/L	10.0		98.3	70-130			
Benzene	9.46	1.0	µg/L	10.0		94.6	70-130			
Bromobenzene	10.2	1.0	µg/L	10.0		102	70-130			
Bromochloromethane	11.5	1.0	µg/L	10.0		115	70-130			
Bromodichloromethane	9.88	0.50	µg/L	10.0		98.8	70-130			
Bromoform	11.8	1.0	µg/L	10.0		118	70-130			
Bromomethane	19.0	2.0	µg/L	10.0		190 *	40-160			L-02, V-20, V-34 †
2-Butanone (MEK)	86.5	20	µg/L	100		86.5	40-160			†
tert-Butyl Alcohol (TBA)	94.9	20	µg/L	100		94.9	40-160			†
n-Butylbenzene	8.97	1.0	µg/L	10.0		89.7	70-130			
sec-Butylbenzene	9.59	1.0	µg/L	10.0		95.9	70-130			
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.32	0.50	µg/L	10.0		93.2	70-130			
Carbon Disulfide	89.0	5.0	µg/L	100		89.0	70-130			
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130			
Chlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109	70-130			
Chloroethane	10.3	2.0	µg/L	10.0		103	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B300780 - SW-846 5030B										
LCS (B300780-BS1)										
Prepared & Analyzed: 02/09/22										
Chloroform	9.41	2.0	µg/L	10.0		94.1	70-130			
Chloromethane	4.27	2.0	µg/L	10.0		42.7	40-160			V-05, V-34 †
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130			
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.09	5.0	µg/L	10.0		90.9	70-130			
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130			
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130			
1,4-Dichlorobenzene	9.96	1.0	µg/L	10.0		99.6	70-130			
trans-1,4-Dichloro-2-butene	10.6	2.0	µg/L	10.0		106	70-130			
Dichlorodifluoromethane (Freon 12)	9.23	2.0	µg/L	10.0		92.3	40-160			†
1,1-Dichloroethane	9.37	1.0	µg/L	10.0		93.7	70-130			
1,2-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
cis-1,2-Dichloroethylene	9.53	1.0	µg/L	10.0		95.3	70-130			
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dichloropropane	9.91	1.0	µg/L	10.0		99.1	70-130			
1,3-Dichloropropane	9.79	0.50	µg/L	10.0		97.9	70-130			
2,2-Dichloropropane	9.26	1.0	µg/L	10.0		92.6	40-130			†
1,1-Dichloropropene	9.44	2.0	µg/L	10.0		94.4	70-130			
cis-1,3-Dichloropropene	9.21	0.50	µg/L	10.0		92.1	70-130			
trans-1,3-Dichloropropene	9.02	0.50	µg/L	10.0		90.2	70-130			
Diethyl Ether	9.63	2.0	µg/L	10.0		96.3	70-130			
Diisopropyl Ether (DIPE)	9.07	0.50	µg/L	10.0		90.7	70-130			
1,4-Dioxane	107	50	µg/L	100		107	40-130			†
Ethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Hexachlorobutadiene	8.62	0.60	µg/L	10.0		86.2	70-130			
2-Hexanone (MBK)	95.5	10	µg/L	100		95.5	70-160			†
Isopropylbenzene (Cumene)	11.3	1.0	µg/L	10.0		113	70-130			
p-Isopropyltoluene (p-Cymene)	10.0	1.0	µg/L	10.0		100	70-130			
Methyl Acetate	7.55	1.0	µg/L	10.0		75.5	70-130			V-05
Methyl tert-Butyl Ether (MTBE)	9.52	1.0	µg/L	10.0		95.2	70-130			
Methyl Cyclohexane	10.1	1.0	µg/L	10.0		101	70-130			
Methylene Chloride	9.03	5.0	µg/L	10.0		90.3	70-130			
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100		101	70-160			†
Naphthalene	8.21	2.0	µg/L	10.0		82.1	40-130			V-05 †
n-Propylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
Styrene	10.8	1.0	µg/L	10.0		108	70-130			
1,1,1,2-Tetrachloroethane	12.0	1.0	µg/L	10.0		120	70-130			
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Tetrachloroethylene	11.8	1.0	µg/L	10.0		118	70-130			
Tetrahydrofuran	9.70	10	µg/L	10.0		97.0	70-130			
Toluene	9.89	1.0	µg/L	10.0		98.9	70-130			
1,2,3-Trichlorobenzene	8.74	5.0	µg/L	10.0		87.4	70-130			
1,2,4-Trichlorobenzene	9.54	1.0	µg/L	10.0		95.4	70-130			
1,3,5-Trichlorobenzene	9.63	1.0	µg/L	10.0		96.3	70-130			
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	9.59	2.0	µg/L	10.0		95.9	70-130			
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B300780 - SW-846 5030B										
LCS (B300780-BS1)										
Prepared & Analyzed: 02/09/22										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1	1.0	µg/L	10.0		111	70-130			
1,2,4-Trimethylbenzene	9.94	1.0	µg/L	10.0		99.4	70-130			
1,3,5-Trimethylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
Vinyl Chloride	9.35	2.0	µg/L	10.0		93.5	40-160			†
m+p Xylene	21.9	2.0	µg/L	20.0		110	70-130			
o-Xylene	10.7	1.0	µg/L	10.0		107	70-130			
Xylenes (total)	32.6	1.0	µg/L	30.0		109	0-200			
Surrogate: 1,2-Dichloroethane-d4	19.9		µg/L	25.0		79.7	70-130			
Surrogate: Toluene-d8	23.7		µg/L	25.0		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.0	70-130			
LCS Dup (B300780-BSD1)										
Prepared & Analyzed: 02/09/22										
Acetone	89.8	50	µg/L	100		89.8	70-160	4.06	25	†
Acrylonitrile	10.1	5.0	µg/L	10.0		101	70-130	5.60	25	
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.0		100	70-130	2.01	25	
Benzene	9.93	1.0	µg/L	10.0		99.3	70-130	4.85	25	
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130	3.07	25	
Bromochloromethane	11.8	1.0	µg/L	10.0		118	70-130	2.92	25	
Bromodichloromethane	10.3	0.50	µg/L	10.0		103	70-130	4.55	25	
Bromoform	11.8	1.0	µg/L	10.0		118	70-130	0.0844	25	
Bromomethane	18.3	2.0	µg/L	10.0		183 *	40-160	3.27	25	L-02, V-20, V-34 †
2-Butanone (MEK)	84.0	20	µg/L	100		84.0	40-160	3.01	25	†
tert-Butyl Alcohol (TBA)	87.8	20	µg/L	100		87.8	40-160	7.74	25	†
n-Butylbenzene	9.02	1.0	µg/L	10.0		90.2	70-130	0.556	25	
sec-Butylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130	2.06	25	
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130	1.56	25	
tert-Butyl Ethyl Ether (TBEE)	9.67	0.50	µg/L	10.0		96.7	70-130	3.69	25	
Carbon Disulfide	95.0	5.0	µg/L	100		95.0	70-130	6.47	25	
Carbon Tetrachloride	11.0	5.0	µg/L	10.0		110	70-130	5.77	25	
Chlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	2.75	25	
Chlorodibromomethane	11.5	0.50	µg/L	10.0		115	70-130	5.43	25	
Chloroethane	10.4	2.0	µg/L	10.0		104	70-130	0.580	25	
Chloroform	9.59	2.0	µg/L	10.0		95.9	70-130	1.89	25	
Chloromethane	4.21	2.0	µg/L	10.0		42.1	40-160	1.42	25	V-05, V-34 †
2-Chlorotoluene	10.3	1.0	µg/L	10.0		103	70-130	1.45	25	
4-Chlorotoluene	10.7	1.0	µg/L	10.0		107	70-130	0.940	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.66	5.0	µg/L	10.0		86.6	70-130	4.85	25	
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130	3.18	25	
Dibromomethane	11.0	1.0	µg/L	10.0		110	70-130	4.44	25	
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	2.27	25	
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	1.97	25	
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	1.89	25	
trans-1,4-Dichloro-2-butene	10.4	2.0	µg/L	10.0		104	70-130	1.90	25	
Dichlorodifluoromethane (Freon 12)	9.26	2.0	µg/L	10.0		92.6	40-160	0.325	25	†
1,1-Dichloroethane	9.71	1.0	µg/L	10.0		97.1	70-130	3.56	25	
1,2-Dichloroethane	10.8	1.0	µg/L	10.0		108	70-130	4.56	25	
1,1-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	5.38	25	
cis-1,2-Dichloroethylene	9.95	1.0	µg/L	10.0		99.5	70-130	4.31	25	
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	2.38	25	
1,2-Dichloropropane	10.5	1.0	µg/L	10.0		105	70-130	5.40	25	
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104	70-130	5.85	25	
2,2-Dichloropropane	9.80	1.0	µg/L	10.0		98.0	40-130	5.67	25	†

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B300780 - SW-846 5030B										
LCS Dup (B300780-BSD1)										
Prepared & Analyzed: 02/09/22										
1,1-Dichloropropene	9.74	2.0	µg/L	10.0		97.4	70-130	3.13	25	
cis-1,3-Dichloropropene	9.59	0.50	µg/L	10.0		95.9	70-130	4.04	25	
trans-1,3-Dichloropropene	9.58	0.50	µg/L	10.0		95.8	70-130	6.02	25	
Diethyl Ether	10.2	2.0	µg/L	10.0		102	70-130	5.94	25	
Diisopropyl Ether (DIPE)	9.65	0.50	µg/L	10.0		96.5	70-130	6.20	25	
1,4-Dioxane	111	50	µg/L	100		111	40-130	4.25	50	† ‡
Ethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	0.369	25	
Hexachlorobutadiene	8.61	0.60	µg/L	10.0		86.1	70-130	0.116	25	
2-Hexanone (MBK)	92.7	10	µg/L	100		92.7	70-160	3.04	25	†
Isopropylbenzene (Cumene)	11.5	1.0	µg/L	10.0		115	70-130	1.84	25	
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.0		101	70-130	0.993	25	
Methyl Acetate	7.42	1.0	µg/L	10.0		74.2	70-130	1.74	25	V-05
Methyl tert-Butyl Ether (MTBE)	9.73	1.0	µg/L	10.0		97.3	70-130	2.18	25	
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106	70-130	4.36	25	
Methylene Chloride	9.76	5.0	µg/L	10.0		97.6	70-130	7.77	25	
4-Methyl-2-pentanone (MIBK)	98.3	10	µg/L	100		98.3	70-160	2.42	25	†
Naphthalene	8.04	2.0	µg/L	10.0		80.4	40-130	2.09	25	V-05 †
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130	1.04	25	
Styrene	11.2	1.0	µg/L	10.0		112	70-130	4.00	25	
1,1,1,2-Tetrachloroethane	12.3	1.0	µg/L	10.0		123	70-130	2.80	25	
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130	2.06	25	
Tetrachloroethylene	12.3	1.0	µg/L	10.0		123	70-130	3.97	25	
Tetrahydrofuran	9.39	10	µg/L	10.0		93.9	70-130	3.25	25	
Toluene	10.3	1.0	µg/L	10.0		103	70-130	4.35	25	
1,2,3-Trichlorobenzene	8.58	5.0	µg/L	10.0		85.8	70-130	1.85	25	
1,2,4-Trichlorobenzene	9.72	1.0	µg/L	10.0		97.2	70-130	1.87	25	
1,3,5-Trichlorobenzene	9.81	1.0	µg/L	10.0		98.1	70-130	1.85	25	
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130	3.17	25	
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111	70-130	8.26	25	
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	5.34	25	
Trichlorofluoromethane (Freon 11)	9.75	2.0	µg/L	10.0		97.5	70-130	1.65	25	
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110	70-130	0.273	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6	1.0	µg/L	10.0		116	70-130	4.32	25	
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	4.23	25	
1,3,5-Trimethylbenzene	11.4	1.0	µg/L	10.0		114	70-130	1.32	25	
Vinyl Chloride	9.67	2.0	µg/L	10.0		96.7	40-160	3.36	25	†
m+p Xylene	22.1	2.0	µg/L	20.0		111	70-130	0.772	25	
o-Xylene	10.8	1.0	µg/L	10.0		108	70-130	1.03	25	
Xylenes (total)	32.9	1.0	µg/L	30.0		110	0-200	0.855		
Surrogate: 1,2-Dichloroethane-d4	20.3		µg/L	25.0		81.2	70-130			
Surrogate: Toluene-d8	24.2		µg/L	25.0		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		µg/L	25.0		98.7	70-130			

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-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
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.

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

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Aptim
 Received By DK Date 2-8-22 Time 1655
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 5.4
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-	<u>1</u>	500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

May 27, 2022

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

Project Location: 333 Adelaide Avenue, Providence, RI
Client Job Number:
Project Number: 631010697 - 005
Laboratory Work Order Number: 22E0900

Enclosed are results of analyses for samples as received by the laboratory on May 13, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott C. Basal
Project Manager

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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: 5/27/2022

PURCHASE ORDER NUMBER: 216859

PROJECT NUMBER: 631010697 - 005

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22E0900

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 Avenue, Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TB-1-20220512	22E0900-01	Ground Water		SW-846 8260D	
CW-01-20220512	22E0900-02	Ground Water		SW-846 8260D	
CW-02-020220512	22E0900-03	Ground Water		SW-846 8260D	
CW-06-20220512	22E0900-04	Ground Water		SW-846 8015C	
CW-06-20220512FD	22E0900-05	Ground Water		SW-846 8015C	
GZA-3-20220512	22E0900-06	Ground Water		SW-846 6020B	
				SW-846 8260D	
GZA-3-20220512FD	22E0900-07	Ground Water		SW-846 6020B	
MW-109D-20220512	22E0900-08	Ground Water		SW-846 6020B	
				SW-846 8260D	
MW-207S-20220512	22E0900-09	Ground Water		SW-846 8260D	
MW-207D-20220512	22E0900-10	Ground Water		SW-846 8260D	
MW-202S-20220512	22E0900-11	Ground Water		SW-846 8260D	
MW-202D-20220512	22E0900-12	Ground Water		SW-846 8260D	
MW-101S-20220512	22E0900-13	Ground Water		SW-846 8260D	
MW-101S-20220512FD	22E0900-14	Ground Water		SW-846 8260D	
MW-101D-20220512	22E0900-15	Ground Water		SW-846 8260D	
MW-201D-20220512	22E0900-16	Ground Water		SW-846 8260D	
MW-209D-20220513	22E0900-17	Ground Water		SW-846 8260D	
MW-112-20220513	22E0900-18	Ground Water		SW-846 8260D	
MW-218D-20220513	22E0900-19	Ground Water		SW-846 8260D	
MW-218S-20220513	22E0900-20	Ground Water		SW-846 8260D	
MW-216S-20220513	22E0900-21	Ground Water		SW-846 8260D	
MW-216D-20220513	22E0900-22	Ground Water		SW-846 8260D	
MW-217S-20220513	22E0900-23	Ground Water		SW-846 8260D	
MW-217D-20220513	22E0900-24	Ground Water		SW-846 8260D	
MW-116S-20220513	22E0900-25	Ground Water		SW-846 8260D	
MW-116D-20220513	22E0900-26	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.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 8015C

Qualifications:**Z-01**

The sample exhibits a chromatographic pattern similar to #2 fuel.

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

22E0900-04[CW-06-20220512], 22E0900-05[CW-06-20220512FD]

SW-846 8260D

Qualifications:**L-02**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**1,1,2-Trichloro-1,2,2-trifluoroethane**

B308546-BS1, B308546-BSD1

1,1-Dichloroethylene

B308546-BS1, B308546-BSD1

Bromoform

B308465-BS1, B308465-BSD1

Bromomethane

B308546-BS1, B308546-BSD1

Chloroethane

B308546-BS1, B308546-BSD1

Methyl Acetate

B308484-BS1, B308484-BSD1, S071587-CCV1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**1,1,2,2-Tetrachloroethane**

B308465-BSD1

1,2,3-Trichlorobenzene

B308465-BSD1

1,2,3-Trichloropropane

B308465-BSD1, B308546-BSD1

1,2-Dibromo-3-chloropropane (DBP)

B308465-BSD1

Bromochloromethane

B308546-BS1

Naphthalene

B308465-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

22E0900-02[CW-01-20220512], 22E0900-19[MW-218D-20220513]

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

22E0900-21[MW-216S-20220513], 22E0900-23[MW-217S-20220513]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

22E0900-16[MW-201D-20220512], 22E0900-17[MW-209D-20220513], 22E0900-20[MW-218S-20220513], B308546-BLK1, B308546-BS1, B308546-BSD1, S071645-CCV1

1,2-Dibromo-3-chloropropane (DBP)

22E0900-16[MW-201D-20220512], 22E0900-17[MW-209D-20220513], 22E0900-20[MW-218S-20220513], B308546-BLK1, B308546-BS1, B308546-BSD1, S071645-CCV1

2-Butanone (MEK)

22E0900-16[MW-201D-20220512], 22E0900-17[MW-209D-20220513], 22E0900-20[MW-218S-20220513], B308546-BLK1, B308546-BS1, B308546-BSD1, S071645-CCV1

Chloromethane

22E0900-01[TB-1-20220512], 22E0900-03[CW-02-020220512], 22E0900-06[GZA-3-20220512], 22E0900-16[MW-201D-20220512], 22E0900-17[MW-209D-20220513], 22E0900-20[MW-218S-20220513], B308465-BLK1, B308465-BS1, B308465-BSD1, B308546-BLK1, B308546-BS1, B308546-BSD1, S071583-CCV1, S071645-CCV1

Dichlorodifluoromethane (Freon 12)

22E0900-16[MW-201D-20220512], 22E0900-17[MW-209D-20220513], 22E0900-20[MW-218S-20220513], B308546-BLK1, B308546-BS1, B308546-BSD1, S071645-CCV1

Hexachlorobutadiene

22E0900-16[MW-201D-20220512], 22E0900-17[MW-209D-20220513], 22E0900-20[MW-218S-20220513], B308546-BLK1, B308546-BS1, B308546-BSD1, S071645-CCV1

Methyl Acetate

22E0900-16[MW-201D-20220512], 22E0900-17[MW-209D-20220513], 22E0900-20[MW-218S-20220513], B308546-BLK1, B308546-BS1, B308546-BSD1, S071645-CCV1

Naphthalene

22E0900-16[MW-201D-20220512], 22E0900-17[MW-209D-20220513], 22E0900-20[MW-218S-20220513], B308546-BLK1, B308546-BS1, B308546-BSD1, S071645-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:**1,1,2,2-Tetrachloroethane**

B308465-BS1, B308465-BSD1, S071583-CCV1

1,1,2-Trichloro-1,2,2-trifluoroethane

B308484-BS1, B308484-BSD1, B308546-BS1, B308546-BSD1, S071587-CCV1, S071645-CCV1

1,1-Dichloroethylene

B308546-BS1, B308546-BSD1, S071645-CCV1

1,2,3-Trichloropropane

B308465-BS1, B308465-BSD1, S071583-CCV1

1,2-Dibromo-3-chloropropane (DBP)

B308465-BS1, B308465-BSD1, S071583-CCV1

Bromoform

B308465-BS1, B308465-BSD1, B308546-BS1, B308546-BSD1, S071583-CCV1, S071645-CCV1

Bromomethane

B308546-BS1, B308546-BSD1, S071645-CCV1

Chloroethane

B308546-BS1, B308546-BSD1, S071645-CCV1

Methyl Acetate

B308484-BS1, B308484-BSD1, S071587-CCV1

tert-Butyl Alcohol (TBA)

B308465-BS1, B308465-BSD1, B308484-BS1, B308484-BSD1, S071583-CCV1, S071587-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:**Bromomethane**

22E0900-16[MW-201D-20220512], 22E0900-17[MW-209D-20220513], 22E0900-20[MW-218S-20220513], B308546-BLK1, B308546-BS1, B308546-BSD1, S071645-CCV1

Chloromethane

22E0900-16[MW-201D-20220512], 22E0900-17[MW-209D-20220513], 22E0900-20[MW-218S-20220513], B308546-BLK1, B308546-BS1, B308546-BSD1, S071645-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: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: TB-1-20220512

Sampled: 5/12/2022 00:00

Sample ID: 22E0900-01

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	5/16/22	5/16/22 13:06	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/16/22	5/16/22 13:06	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: TB-1-20220512

Sampled: 5/12/2022 00:00

Sample ID: 22E0900-01

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	5/16/22	5/16/22 13:06	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:06	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/16/22 13:06
Toluene-d8	99.5	70-130	5/16/22 13:06
4-Bromofluorobenzene	103	70-130	5/16/22 13:06

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: CW-01-20220512

Sampled: 5/12/2022 07:45

Sample ID: 22E0900-02

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	500	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Acrylonitrile	ND	50	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Benzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Bromobenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Bromochloromethane	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Bromodichloromethane	ND	5.0	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Bromoform	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Bromomethane	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
2-Butanone (MEK)	ND	200	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Carbon Disulfide	ND	50	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Chlorobenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Chloroethane	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Chloroform	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Chloromethane	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Dibromomethane	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
cis-1,2-Dichloroethylene	33	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
cis-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
trans-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Diethyl Ether	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: CW-01-20220512

Sampled: 5/12/2022 07:45

Sample ID: 22E0900-02

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	5.0	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,4-Dioxane	ND	500	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Ethylbenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Hexachlorobutadiene	ND	6.0	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Methyl Acetate	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Methyl Cyclohexane	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Methylene Chloride	ND	50	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Naphthalene	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Styrene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Tetrachloroethylene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Tetrahydrofuran	ND	100	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Toluene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Trichloroethylene	450	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
m+p Xylene	ND	20	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
o-Xylene	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH
Xylenes (total)	ND	10	µg/L	10		SW-846 8260D	5/16/22	5/16/22 18:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.8	70-130	5/16/22 18:43
Toluene-d8	102	70-130	5/16/22 18:43
4-Bromofluorobenzene	100	70-130	5/16/22 18:43

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: CW-02-020220512

Sampled: 5/12/2022 08:30

Sample ID: 22E0900-03

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	5/16/22	5/16/22 13:33	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/16/22	5/16/22 13:33	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: CW-02-020220512

Sampled: 5/12/2022 08:30

Sample ID: 22E0900-03

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	5/16/22	5/16/22 13:33	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Methyl tert-Butyl Ether (MTBE)	1.2	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	5/16/22 13:33
Toluene-d8	99.6	70-130	5/16/22 13:33
4-Bromofluorobenzene	103	70-130	5/16/22 13:33

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: CW-06-20220512

Sampled: 5/12/2022 09:30

Sample ID: 22E0900-04

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	11	0.76	mg/L	4	Z-01	SW-846 8015C	5/16/22	5/18/22 22:07	SFM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorobiphenyl	81.3	40-140			5/18/22 22:07				

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: CW-06-20220512FD

Sampled: 5/12/2022 09:30

Sample ID: 22E0900-05

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	12	0.77	mg/L	4	Z-01	SW-846 8015C	5/16/22	5/18/22 22:37	SFM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	91.5		40-140					5/18/22 22:37	

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: GZA-3-20220512

Sampled: 5/12/2022 10:30

Sample ID: 22E0900-06

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	5/16/22	5/16/22 14:00	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/16/22	5/16/22 14:00	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: GZA-3-20220512

Sampled: 5/12/2022 10:30

Sample ID: 22E0900-06

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	5/16/22	5/16/22 14:00	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Vinyl Chloride	3.8	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:00	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	5/16/22 14:00
Toluene-d8	98.8	70-130	5/16/22 14:00
4-Bromofluorobenzene	103	70-130	5/16/22 14:00

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: GZA-3-20220512

Sampled: 5/12/2022 10:30

Sample ID: 22E0900-06

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	2.8	0.50	µg/L	1		SW-846 6020B	5/18/22	5/19/22 18:33	QNW

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: GZA-3-20220512FD

Sampled: 5/12/2022 10:30

Sample ID: 22E0900-07

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	2.0	0.50	µg/L	1		SW-846 6020B	5/18/22	5/19/22 18:36	QNW

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-109D-20220512

Sampled: 5/12/2022 11:30

Sample ID: 22E0900-08

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	5/16/22	5/16/22 12:40	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-109D-20220512

Sampled: 5/12/2022 11:30

Sample ID: 22E0900-08

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	5/16/22	5/16/22 12:40	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 12:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/16/22 12:40
Toluene-d8	101	70-130	5/16/22 12:40
4-Bromofluorobenzene	99.8	70-130	5/16/22 12:40

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-109D-20220512

Sampled: 5/12/2022 11:30

Sample ID: 22E0900-08

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	5/18/22	5/19/22 18:44	QNW

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-207S-20220512

Sampled: 5/12/2022 12:30

Sample ID: 22E0900-09

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	5/16/22	5/16/22 13:04	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-207S-20220512

Sampled: 5/12/2022 12:30

Sample ID: 22E0900-09

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	5/16/22	5/16/22 13:04	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Tetrachloroethylene	1.3	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/16/22 13:04
Toluene-d8	102	70-130	5/16/22 13:04
4-Bromofluorobenzene	98.0	70-130	5/16/22 13:04

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-207D-20220512

Sampled: 5/12/2022 13:00

Sample ID: 22E0900-10

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	5/16/22	5/16/22 13:29	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-207D-20220512

Sampled: 5/12/2022 13:00

Sample ID: 22E0900-10

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	5/16/22	5/16/22 13:29	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:29	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	5/16/22 13:29
Toluene-d8	101	70-130	5/16/22 13:29
4-Bromofluorobenzene	99.1	70-130	5/16/22 13:29

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-202S-20220512

Sampled: 5/12/2022 13:30

Sample ID: 22E0900-11

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	5/16/22	5/16/22 13:53	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-202S-20220512

Sampled: 5/12/2022 13:30

Sample ID: 22E0900-11

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	5/16/22	5/16/22 13:53	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Tetrachloroethylene	13	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 13:53	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/16/22 13:53
Toluene-d8	101	70-130	5/16/22 13:53
4-Bromofluorobenzene	101	70-130	5/16/22 13:53

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-202D-20220512

Sampled: 5/12/2022 13:45

Sample ID: 22E0900-12

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	5/16/22	5/16/22 14:17	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-202D-20220512

Sampled: 5/12/2022 13:45

Sample ID: 22E0900-12

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	5/16/22	5/16/22 14:17	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Tetrachloroethylene	4.4	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/16/22 14:17
Toluene-d8	102	70-130	5/16/22 14:17
4-Bromofluorobenzene	100	70-130	5/16/22 14:17

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-101S-20220512

Sampled: 5/12/2022 14:05

Sample ID: 22E0900-13

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	5/16/22	5/16/22 17:31	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
cis-1,2-Dichloroethylene	9.4	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-101S-20220512

Sampled: 5/12/2022 14:05

Sample ID: 22E0900-13

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	5/16/22	5/16/22 17:31	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Tetrachloroethylene	370	50	µg/L	50		SW-846 8260D	5/16/22	5/17/22 15:30	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,1,2-Trichloroethane	2.6	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Trichloroethylene	17	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:31	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.7	70-130	5/16/22 17:31
1,2-Dichloroethane-d4	101	70-130	5/17/22 15:30
Toluene-d8	101	70-130	5/16/22 17:31
Toluene-d8	96.6	70-130	5/17/22 15:30
4-Bromofluorobenzene	96.4	70-130	5/17/22 15:30
4-Bromofluorobenzene	97.6	70-130	5/16/22 17:31

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-101S-20220512FD

Sampled: 5/12/2022 14:05

Sample ID: 22E0900-14

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	5/16/22	5/16/22 17:55	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
cis-1,2-Dichloroethylene	9.1	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-101S-20220512FD

Sampled: 5/12/2022 14:05

Sample ID: 22E0900-14

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	5/16/22	5/16/22 17:55	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Tetrachloroethylene	370	50	µg/L	50		SW-846 8260D	5/16/22	5/17/22 19:24	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Trichloroethylene	17	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 17:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.2	70-130	5/17/22 19:24
1,2-Dichloroethane-d4	100	70-130	5/16/22 17:55
Toluene-d8	96.9	70-130	5/17/22 19:24
Toluene-d8	103	70-130	5/16/22 17:55
4-Bromofluorobenzene	97.5	70-130	5/17/22 19:24
4-Bromofluorobenzene	99.4	70-130	5/16/22 17:55

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-101D-20220512

Sampled: 5/12/2022 14:35

Sample ID: 22E0900-15

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	5/16/22	5/16/22 14:42	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-101D-20220512

Sampled: 5/12/2022 14:35

Sample ID: 22E0900-15

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	5/16/22	5/16/22 14:42	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Tetrachloroethylene	4.8	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 14:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	5/16/22 14:42
Toluene-d8	102	70-130	5/16/22 14:42
4-Bromofluorobenzene	102	70-130	5/16/22 14:42

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-201D-20220512

Sampled: 5/12/2022 15:20

Sample ID: 22E0900-16

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	5/17/22	5/17/22 14:12	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Bromomethane	ND	5.0	µg/L	1	V-34	SW-846 8260D	5/17/22	5/17/22 14:12	MFF
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:12	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/17/22	5/17/22 14:12	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-201D-20220512

Sampled: 5/12/2022 15:20

Sample ID: 22E0900-16

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	5/17/22	5/17/22 14:12	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:12	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Methyl Acetate	ND	1.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:12	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Tetrachloroethylene	44	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Trichloroethylene	8.2	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.0	70-130	5/17/22 14:12
Toluene-d8	98.0	70-130	5/17/22 14:12
4-Bromofluorobenzene	99.0	70-130	5/17/22 14:12

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-209D-20220513

Sampled: 5/13/2022 06:30

Sample ID: 22E0900-17

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	5/17/22	5/17/22 14:39	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Bromomethane	ND	5.0	µg/L	1	V-34	SW-846 8260D	5/17/22	5/17/22 14:39	MFF
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:39	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/17/22	5/17/22 14:39	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
cis-1,2-Dichloroethylene	2.2	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-209D-20220513

Sampled: 5/13/2022 06:30

Sample ID: 22E0900-17

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	5/17/22	5/17/22 14:39	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:39	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Methyl Acetate	ND	1.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:39	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Tetrachloroethylene	32	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Trichloroethylene	12	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 14:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	5/17/22 14:39
Toluene-d8	98.4	70-130	5/17/22 14:39
4-Bromofluorobenzene	97.9	70-130	5/17/22 14:39

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-112-20220513

Sampled: 5/13/2022 07:00

Sample ID: 22E0900-18

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	5/16/22	5/16/22 18:19	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-112-20220513

Sampled: 5/13/2022 07:00

Sample ID: 22E0900-18

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	5/16/22	5/16/22 18:19	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Tetrachloroethylene	35	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Trichloroethylene	1.8	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 18:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/16/22 18:19
Toluene-d8	102	70-130	5/16/22 18:19
4-Bromofluorobenzene	98.5	70-130	5/16/22 18:19

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-218D-20220513

Sampled: 5/13/2022 07:30

Sample ID: 22E0900-19

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	5000	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Acrylonitrile	ND	500	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
tert-Amyl Methyl Ether (TAME)	ND	50	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Benzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Bromobenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Bromochloromethane	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Bromodichloromethane	ND	50	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Bromoform	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Bromomethane	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
2-Butanone (MEK)	ND	2000	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
tert-Butyl Alcohol (TBA)	ND	2000	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
n-Butylbenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
sec-Butylbenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
tert-Butylbenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	50	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Carbon Disulfide	ND	500	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Carbon Tetrachloride	ND	500	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Chlorobenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Chlorodibromomethane	ND	50	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Chloroethane	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Chloroform	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Chloromethane	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
2-Chlorotoluene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
4-Chlorotoluene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,2-Dibromoethane (EDB)	ND	50	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Dibromomethane	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,2-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,3-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,4-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
trans-1,4-Dichloro-2-butene	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Dichlorodifluoromethane (Freon 12)	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,1-Dichloroethane	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,2-Dichloroethane	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,1-Dichloroethylene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
cis-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
trans-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,3-Dichloropropane	ND	50	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
2,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,1-Dichloropropene	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
cis-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
trans-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Diethyl Ether	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-218D-20220513

Sampled: 5/13/2022 07:30

Sample ID: 22E0900-19

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	50	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,4-Dioxane	ND	5000	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Ethylbenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Hexachlorobutadiene	ND	60	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
2-Hexanone (MBK)	ND	1000	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Isopropylbenzene (Cumene)	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
p-Isopropyltoluene (p-Cymene)	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Methyl Acetate	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Methyl tert-Butyl Ether (MTBE)	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Methyl Cyclohexane	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Methylene Chloride	ND	500	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
4-Methyl-2-pentanone (MIBK)	ND	1000	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Naphthalene	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
n-Propylbenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Styrene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,1,1,2-Tetrachloroethane	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,1,2,2-Tetrachloroethane	ND	50	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Tetrachloroethylene	6300	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Tetrahydrofuran	ND	1000	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Toluene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,2,3-Trichlorobenzene	ND	500	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,2,4-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,3,5-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,1,1-Trichloroethane	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,1,2-Trichloroethane	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Trichloroethylene	220	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Trichlorofluoromethane (Freon 11)	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,2,3-Trichloropropane	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,2,4-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
1,3,5-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Vinyl Chloride	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
m+p Xylene	ND	200	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
o-Xylene	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH
Xylenes (total)	ND	100	µg/L	100		SW-846 8260D	5/16/22	5/16/22 19:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/16/22 19:55
Toluene-d8	100	70-130	5/16/22 19:55
4-Bromofluorobenzene	99.2	70-130	5/16/22 19:55

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-218S-20220513

Sampled: 5/13/2022 08:00

Sample ID: 22E0900-20

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	5/17/22	5/17/22 15:04	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Bromomethane	ND	5.0	µg/L	1	V-34	SW-846 8260D	5/17/22	5/17/22 15:04	MFF
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 15:04	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260D	5/17/22	5/17/22 15:04	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-218S-20220513

Sampled: 5/13/2022 08:00

Sample ID: 22E0900-20

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	5/17/22	5/17/22 15:04	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 15:04	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Methyl Acetate	ND	1.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 15:04	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Tetrachloroethylene	36	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/17/22	5/17/22 15:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/17/22 15:04
Toluene-d8	98.6	70-130	5/17/22 15:04
4-Bromofluorobenzene	97.0	70-130	5/17/22 15:04

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-216S-20220513

Sampled: 5/13/2022 09:00

Sample ID: 22E0900-21

Sample Matrix: Ground Water

Sample Flags: RL-12

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	5/16/22	5/16/22 16:43	EEH
Acrylonitrile	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Bromoform	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Bromomethane	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Chloromethane	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
cis-1,2-Dichloroethylene	6.9	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-216S-20220513

Sampled: 5/13/2022 09:00

Sample ID: 22E0900-21

Sample Matrix: Ground Water

Sample Flags: RL-12

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	5/16/22	5/16/22 16:43	EEH
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Naphthalene	11	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,2,4-Trimethylbenzene	6.9	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
1,3,5-Trimethylbenzene	3.2	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
o-Xylene	6.0	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH
Xylenes (total)	8.6	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 16:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/16/22 16:43
Toluene-d8	101	70-130	5/16/22 16:43
4-Bromofluorobenzene	100	70-130	5/16/22 16:43

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-216D-20220513

Sampled: 5/13/2022 09:40

Sample ID: 22E0900-22

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	5/16/22	5/16/22 15:06	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-216D-20220513

Sampled: 5/13/2022 09:40

Sample ID: 22E0900-22

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	5/16/22	5/16/22 15:06	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:06	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	5/16/22 15:06
Toluene-d8	102	70-130	5/16/22 15:06
4-Bromofluorobenzene	98.0	70-130	5/16/22 15:06

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-217S-20220513

Sampled: 5/13/2022 10:00

Sample ID: 22E0900-23

Sample Matrix: Ground Water

Sample Flags: RL-12

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	5/16/22	5/16/22 17:07	EEH
Acrylonitrile	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Bromoform	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Bromomethane	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Chloromethane	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
cis-1,2-Dichloroethylene	2.7	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-217S-20220513

Sampled: 5/13/2022 10:00

Sample ID: 22E0900-23

Sample Matrix: Ground Water

Sample Flags: RL-12

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	5/16/22	5/16/22 17:07	EEH
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Naphthalene	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Trichloroethylene	3.5	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
o-Xylene	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH
Xylenes (total)	ND	2.0	µg/L	2		SW-846 8260D	5/16/22	5/16/22 17:07	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.1	70-130	5/16/22 17:07
Toluene-d8	101	70-130	5/16/22 17:07
4-Bromofluorobenzene	98.7	70-130	5/16/22 17:07

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-217D-20220513

Sampled: 5/13/2022 10:40

Sample ID: 22E0900-24

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	5/16/22	5/16/22 15:30	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-217D-20220513

Sampled: 5/13/2022 10:40

Sample ID: 22E0900-24

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	5/16/22	5/16/22 15:30	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	5/16/22 15:30
Toluene-d8	102	70-130	5/16/22 15:30
4-Bromofluorobenzene	97.7	70-130	5/16/22 15:30

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-116S-20220513

Sampled: 5/13/2022 11:30

Sample ID: 22E0900-25

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	5/16/22	5/16/22 15:54	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-116S-20220513

Sampled: 5/13/2022 11:30

Sample ID: 22E0900-25

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	5/16/22	5/16/22 15:54	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 15:54	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/16/22 15:54
Toluene-d8	103	70-130	5/16/22 15:54
4-Bromofluorobenzene	98.9	70-130	5/16/22 15:54

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-116D-20220513

Sampled: 5/13/2022 12:00

Sample ID: 22E0900-26

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	5/16/22	5/16/22 16:18	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 22E0900

Date Received: 5/13/2022

Field Sample #: MW-116D-20220513

Sampled: 5/13/2022 12:00

Sample ID: 22E0900-26

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	5/16/22	5/16/22 16:18	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/16/22	5/16/22 16:18	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	5/16/22 16:18
Toluene-d8	102	70-130	5/16/22 16:18
4-Bromofluorobenzene	97.6	70-130	5/16/22 16:18

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
22E0900-06 [GZA-3-20220512]	B308748	10.0	10.0	05/18/22
22E0900-07 [GZA-3-20220512FD]	B308748	10.0	10.0	05/18/22
22E0900-08 [MW-109D-20220512]	B308748	10.0	10.0	05/18/22

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22E0900-04 [CW-06-20220512]	B308458	1050	1.00	05/16/22
22E0900-05 [CW-06-20220512FD]	B308458	1040	1.00	05/16/22

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22E0900-01 [TB-1-20220512]	B308465	5	5.00	05/16/22
22E0900-03 [CW-02-020220512]	B308465	5	5.00	05/16/22
22E0900-06 [GZA-3-20220512]	B308465	5	5.00	05/16/22

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22E0900-02 [CW-01-20220512]	B308484	0.5	5.00	05/16/22
22E0900-08 [MW-109D-20220512]	B308484	5	5.00	05/16/22
22E0900-09 [MW-207S-20220512]	B308484	5	5.00	05/16/22
22E0900-10 [MW-207D-20220512]	B308484	5	5.00	05/16/22
22E0900-11 [MW-202S-20220512]	B308484	5	5.00	05/16/22
22E0900-12 [MW-202D-20220512]	B308484	5	5.00	05/16/22
22E0900-13 [MW-101S-20220512]	B308484	5	5.00	05/16/22
22E0900-14 [MW-101S-20220512FD]	B308484	5	5.00	05/16/22
22E0900-15 [MW-101D-20220512]	B308484	5	5.00	05/16/22
22E0900-18 [MW-112-20220513]	B308484	5	5.00	05/16/22
22E0900-19 [MW-218D-20220513]	B308484	0.05	5.00	05/16/22
22E0900-21 [MW-216S-20220513]	B308484	2.5	5.00	05/16/22
22E0900-22 [MW-216D-20220513]	B308484	5	5.00	05/16/22
22E0900-23 [MW-217S-20220513]	B308484	2.5	5.00	05/16/22
22E0900-24 [MW-217D-20220513]	B308484	5	5.00	05/16/22
22E0900-25 [MW-116S-20220513]	B308484	5	5.00	05/16/22
22E0900-26 [MW-116D-20220513]	B308484	5	5.00	05/16/22

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22E0900-13RE1 [MW-101S-20220512]	B308546	0.1	5.00	05/16/22
22E0900-14RE1 [MW-101S-20220512FD]	B308546	0.1	5.00	05/16/22
22E0900-16 [MW-201D-20220512]	B308546	5	5.00	05/17/22
22E0900-17 [MW-209D-20220513]	B308546	5	5.00	05/17/22
22E0900-20 [MW-218S-20220513]	B308546	5	5.00	05/17/22

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 B308465 - SW-846 5030B										
Blank (B308465-BLK1)										
Prepared & Analyzed: 05/16/22										
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							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							

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308465 - SW-846 5030B
Blank (B308465-BLK1)

Prepared & Analyzed: 05/16/22

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.8		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.0		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	25.8		µg/L	25.0		103	70-130			

LCS (B308465-BS1)

Prepared & Analyzed: 05/16/22

Acetone	101	50	µg/L	100		101	70-160			†
Acrylonitrile	11.4	5.0	µg/L	10.0		114	70-130			
tert-Amyl Methyl Ether (TAME)	10.1	0.50	µg/L	10.0		101	70-130			
Benzene	8.94	1.0	µg/L	10.0		89.4	70-130			
Bromobenzene	10.8	1.0	µg/L	10.0		108	70-130			
Bromochloromethane	9.38	1.0	µg/L	10.0		93.8	70-130			
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130			
Bromoform	14.3	1.0	µg/L	10.0		143 *	70-130		L-02, V-20	
Bromomethane	12.8	2.0	µg/L	10.0		128	40-160			†
2-Butanone (MEK)	102	20	µg/L	100		102	40-160			†
tert-Butyl Alcohol (TBA)	148	20	µg/L	100		148	40-160		V-20	†
n-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.56	0.50	µg/L	10.0		95.6	70-130			
Carbon Disulfide	98.6	5.0	µg/L	100		98.6	70-130			
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130			
Chlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
Chlorodibromomethane	11.2	0.50	µg/L	10.0		112	70-130			
Chloroethane	11.9	2.0	µg/L	10.0		119	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308465 - SW-846 5030B										
LCS (B308465-BS1)										
Prepared & Analyzed: 05/16/22										
Chloroform	9.72	2.0	µg/L	10.0		97.2	70-130			
Chloromethane	7.92	2.0	µg/L	10.0		79.2	40-160			V-05 †
2-Chlorotoluene	10.3	1.0	µg/L	10.0		103	70-130			
4-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	13.0	5.0	µg/L	10.0		130	70-130			V-20
1,2-Dibromoethane (EDB)	11.3	0.50	µg/L	10.0		113	70-130			
Dibromomethane	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
trans-1,4-Dichloro-2-butene	11.6	2.0	µg/L	10.0		116	70-130			
Dichlorodifluoromethane (Freon 12)	9.86	2.0	µg/L	10.0		98.6	40-160			†
1,1-Dichloroethane	9.14	1.0	µg/L	10.0		91.4	70-130			
1,2-Dichloroethane	9.45	1.0	µg/L	10.0		94.5	70-130			
1,1-Dichloroethylene	9.77	1.0	µg/L	10.0		97.7	70-130			
cis-1,2-Dichloroethylene	8.86	1.0	µg/L	10.0		88.6	70-130			
trans-1,2-Dichloroethylene	8.80	1.0	µg/L	10.0		88.0	70-130			
1,2-Dichloropropane	9.25	1.0	µg/L	10.0		92.5	70-130			
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			
2,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	40-130			†
1,1-Dichloropropene	9.42	2.0	µg/L	10.0		94.2	70-130			
cis-1,3-Dichloropropene	9.25	0.50	µg/L	10.0		92.5	70-130			
trans-1,3-Dichloropropene	9.88	0.50	µg/L	10.0		98.8	70-130			
Diethyl Ether	9.81	2.0	µg/L	10.0		98.1	70-130			
Diisopropyl Ether (DIPE)	8.38	0.50	µg/L	10.0		83.8	70-130			
1,4-Dioxane	121	50	µg/L	100		121	40-130			†
Ethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Hexachlorobutadiene	9.77	0.60	µg/L	10.0		97.7	70-130			
2-Hexanone (MBK)	106	10	µg/L	100		106	70-160			†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130			
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.0		106	70-130			
Methyl Acetate	10.2	1.0	µg/L	10.0		102	70-130			
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.0		104	70-130			
Methyl Cyclohexane	9.86	1.0	µg/L	10.0		98.6	70-130			
Methylene Chloride	9.54	5.0	µg/L	10.0		95.4	70-130			
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100		102	70-160			†
Naphthalene	13.0	2.0	µg/L	10.0		130	40-130			†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Styrene	11.4	1.0	µg/L	10.0		114	70-130			
1,1,1,2-Tetrachloroethane	11.7	1.0	µg/L	10.0		117	70-130			
1,1,2,2-Tetrachloroethane	12.6	0.50	µg/L	10.0		126	70-130			V-20
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
Tetrahydrofuran	10.7	10	µg/L	10.0		107	70-130			
Toluene	9.55	1.0	µg/L	10.0		95.5	70-130			
1,2,3-Trichlorobenzene	12.4	5.0	µg/L	10.0		124	70-130			
1,2,4-Trichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,3,5-Trichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130			
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102	70-130			
1,2,3-Trichloropropane	12.7	2.0	µg/L	10.0		127	70-130			V-20

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308465 - SW-846 5030B										
LCS (B308465-BS1)										
Prepared & Analyzed: 05/16/22										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.0		104	70-130			
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3,5-Trimethylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
Vinyl Chloride	7.70	2.0	µg/L	10.0		77.0	40-160			†
m+p Xylene	21.9	2.0	µg/L	20.0		109	70-130			
o-Xylene	10.9	1.0	µg/L	10.0		109	70-130			
Xylenes (total)	32.8	1.0	µg/L	30.0		109	0-200			
Surrogate: 1,2-Dichloroethane-d4	25.7		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104	70-130			
LCS Dup (B308465-BSD1)										
Prepared & Analyzed: 05/16/22										
Acetone	106	50	µg/L	100		106	70-160	5.02	25	†
Acrylonitrile	11.9	5.0	µg/L	10.0		119	70-130	3.95	25	
tert-Amyl Methyl Ether (TAME)	10.4	0.50	µg/L	10.0		104	70-130	3.02	25	
Benzene	9.05	1.0	µg/L	10.0		90.5	70-130	1.22	25	
Bromobenzene	11.1	1.0	µg/L	10.0		111	70-130	2.29	25	
Bromochloromethane	9.43	1.0	µg/L	10.0		94.3	70-130	0.532	25	
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130	4.91	25	
Bromoform	14.6	1.0	µg/L	10.0		146 *	70-130	1.87	25	L-02, V-20
Bromomethane	13.4	2.0	µg/L	10.0		134	40-160	4.64	25	†
2-Butanone (MEK)	108	20	µg/L	100		108	40-160	5.35	25	†
tert-Butyl Alcohol (TBA)	159	20	µg/L	100		159	40-160	7.49	25	V-20 †
n-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	5.21	25	
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	3.00	25	
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130	3.60	25	
tert-Butyl Ethyl Ether (TBEE)	9.58	0.50	µg/L	10.0		95.8	70-130	0.209	25	
Carbon Disulfide	101	5.0	µg/L	100		101	70-130	1.89	25	
Carbon Tetrachloride	10.7	5.0	µg/L	10.0		107	70-130	2.47	25	
Chlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	1.08	25	
Chlorodibromomethane	11.4	0.50	µg/L	10.0		114	70-130	2.21	25	
Chloroethane	11.2	2.0	µg/L	10.0		112	70-130	5.79	25	
Chloroform	9.90	2.0	µg/L	10.0		99.0	70-130	1.83	25	
Chloromethane	7.20	2.0	µg/L	10.0		72.0	40-160	9.52	25	V-05 †
2-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130	3.06	25	
4-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130	1.55	25	
1,2-Dibromo-3-chloropropane (DBCP)	14.6	5.0	µg/L	10.0		146 *	70-130	11.7	25	L-07, V-20
1,2-Dibromoethane (EDB)	11.8	0.50	µg/L	10.0		118	70-130	3.90	25	
Dibromomethane	10.9	1.0	µg/L	10.0		109	70-130	3.08	25	
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	3.75	25	
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	3.28	25	
1,4-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	2.38	25	
trans-1,4-Dichloro-2-butene	11.5	2.0	µg/L	10.0		115	70-130	1.30	25	
Dichlorodifluoromethane (Freon 12)	9.92	2.0	µg/L	10.0		99.2	40-160	0.607	25	†
1,1-Dichloroethane	9.21	1.0	µg/L	10.0		92.1	70-130	0.763	25	
1,2-Dichloroethane	9.63	1.0	µg/L	10.0		96.3	70-130	1.89	25	
1,1-Dichloroethylene	9.74	1.0	µg/L	10.0		97.4	70-130	0.308	25	
cis-1,2-Dichloroethylene	9.12	1.0	µg/L	10.0		91.2	70-130	2.89	25	
trans-1,2-Dichloroethylene	9.04	1.0	µg/L	10.0		90.4	70-130	2.69	25	
1,2-Dichloropropane	9.27	1.0	µg/L	10.0		92.7	70-130	0.216	25	
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107	70-130	4.02	25	
2,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	40-130	1.37	25	†

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308465 - SW-846 5030B										
LCS Dup (B308465-BSD1)										
Prepared & Analyzed: 05/16/22										
1,1-Dichloropropene	9.76	2.0	µg/L	10.0		97.6	70-130	3.55	25	
cis-1,3-Dichloropropene	9.53	0.50	µg/L	10.0		95.3	70-130	2.98	25	
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130	2.20	25	
Diethyl Ether	10.2	2.0	µg/L	10.0		102	70-130	4.29	25	
Diisopropyl Ether (DIPE)	8.53	0.50	µg/L	10.0		85.3	70-130	1.77	25	
1,4-Dioxane	126	50	µg/L	100		126	40-130	4.69	50	† ‡
Ethylbenzene	11.1	1.0	µg/L	10.0		111	70-130	2.83	25	
Hexachlorobutadiene	10.3	0.60	µg/L	10.0		103	70-130	5.28	25	
2-Hexanone (MBK)	114	10	µg/L	100		114	70-160	7.29	25	†
Isopropylbenzene (Cumene)	11.3	1.0	µg/L	10.0		113	70-130	3.89	25	
p-Isopropyltoluene (p-Cymene)	11.2	1.0	µg/L	10.0		112	70-130	4.68	25	
Methyl Acetate	10.9	1.0	µg/L	10.0		109	70-130	6.56	25	
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0		107	70-130	2.37	25	
Methyl Cyclohexane	10.2	1.0	µg/L	10.0		102	70-130	3.00	25	
Methylene Chloride	9.51	5.0	µg/L	10.0		95.1	70-130	0.315	25	
4-Methyl-2-pentanone (MIBK)	108	10	µg/L	100		108	70-160	6.33	25	†
Naphthalene	13.9	2.0	µg/L	10.0		139 *	40-130	7.22	25	L-07 †
n-Propylbenzene	11.2	1.0	µg/L	10.0		112	70-130	3.09	25	
Styrene	11.6	1.0	µg/L	10.0		116	70-130	1.91	25	
1,1,1,2-Tetrachloroethane	12.0	1.0	µg/L	10.0		120	70-130	2.96	25	
1,1,1,2-Tetrachloroethane	13.1	0.50	µg/L	10.0		131 *	70-130	3.74	25	L-07, V-20
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130	3.04	25	
Tetrahydrofuran	11.3	10	µg/L	10.0		113	70-130	5.83	25	
Toluene	9.83	1.0	µg/L	10.0		98.3	70-130	2.89	25	
1,2,3-Trichlorobenzene	13.4	5.0	µg/L	10.0		134 *	70-130	7.57	25	L-07
1,2,4-Trichlorobenzene	12.2	1.0	µg/L	10.0		122	70-130	8.47	25	
1,3,5-Trichlorobenzene	11.8	1.0	µg/L	10.0		118	70-130	5.33	25	
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130	3.84	25	
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130	3.45	25	
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	2.93	25	
Trichlorofluoromethane (Freon 11)	10.3	2.0	µg/L	10.0		103	70-130	1.07	25	
1,2,3-Trichloropropane	13.2	2.0	µg/L	10.0		132 *	70-130	3.32	25	L-07, V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	1.0	µg/L	10.0		105	70-130	0.956	25	
1,2,4-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130	3.05	25	
1,3,5-Trimethylbenzene	11.6	1.0	µg/L	10.0		116	70-130	2.96	25	
Vinyl Chloride	7.96	2.0	µg/L	10.0		79.6	40-160	3.32	25	†
m+p Xylene	21.9	2.0	µg/L	20.0		110	70-130	0.183	25	
o-Xylene	11.0	1.0	µg/L	10.0		110	70-130	0.824	25	
Xylenes (total)	32.9	1.0	µg/L	30.0		110	0-200	0.396		
Surrogate: 1,2-Dichloroethane-d4	25.6		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308484 - SW-846 5030B										
Blank (B308484-BLK1)										
Prepared & Analyzed: 05/16/22										
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308484 - SW-846 5030B
Blank (B308484-BLK1)

Prepared & Analyzed: 05/16/22

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.4		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.3		µg/L	25.0		97.2	70-130			

LCS (B308484-BS1)

Prepared & Analyzed: 05/16/22

Acetone	109	50	µg/L	100		109	70-160			†
Acrylonitrile	10.3	5.0	µg/L	10.0		103	70-130			
tert-Amyl Methyl Ether (TAME)	11.3	0.50	µg/L	10.0		113	70-130			
Benzene	9.45	1.0	µg/L	10.0		94.5	70-130			
Bromobenzene	9.76	1.0	µg/L	10.0		97.6	70-130			
Bromochloromethane	9.20	1.0	µg/L	10.0		92.0	70-130			
Bromodichloromethane	10.9	0.50	µg/L	10.0		109	70-130			
Bromoform	11.4	1.0	µg/L	10.0		114	70-130			
Bromomethane	11.8	2.0	µg/L	10.0		118	40-160			†
2-Butanone (MEK)	90.9	20	µg/L	100		90.9	40-160			†
tert-Butyl Alcohol (TBA)	139	20	µg/L	100		139	40-160		V-20	†
n-Butylbenzene	8.97	1.0	µg/L	10.0		89.7	70-130			
sec-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
tert-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.2	0.50	µg/L	10.0		102	70-130			
Carbon Disulfide	86.2	5.0	µg/L	100		86.2	70-130			
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130			
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
Chlorodibromomethane	11.4	0.50	µg/L	10.0		114	70-130			
Chloroethane	12.0	2.0	µg/L	10.0		120	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308484 - SW-846 5030B										
LCS (B308484-BS1)										
Prepared & Analyzed: 05/16/22										
Chloroform	10.2	2.0	µg/L	10.0		102	70-130			
Chloromethane	8.96	2.0	µg/L	10.0		89.6	40-160			†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130			
4-Chlorotoluene	10.3	1.0	µg/L	10.0		103	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.2	5.0	µg/L	10.0		112	70-130			
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0		107	70-130			
Dibromomethane	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
trans-1,4-Dichloro-2-butene	10.9	2.0	µg/L	10.0		109	70-130			
Dichlorodifluoromethane (Freon 12)	8.85	2.0	µg/L	10.0		88.5	40-160			†
1,1-Dichloroethane	9.39	1.0	µg/L	10.0		93.9	70-130			
1,2-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,1-Dichloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
cis-1,2-Dichloroethylene	9.60	1.0	µg/L	10.0		96.0	70-130			
trans-1,2-Dichloroethylene	9.13	1.0	µg/L	10.0		91.3	70-130			
1,2-Dichloropropane	9.69	1.0	µg/L	10.0		96.9	70-130			
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			
2,2-Dichloropropane	9.91	1.0	µg/L	10.0		99.1	40-130			†
1,1-Dichloropropene	9.30	2.0	µg/L	10.0		93.0	70-130			
cis-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130			
trans-1,3-Dichloropropene	9.83	0.50	µg/L	10.0		98.3	70-130			
Diethyl Ether	10.5	2.0	µg/L	10.0		105	70-130			
Diisopropyl Ether (DIPE)	9.02	0.50	µg/L	10.0		90.2	70-130			
1,4-Dioxane	110	50	µg/L	100		110	40-130			†
Ethylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Hexachlorobutadiene	10.0	0.60	µg/L	10.0		100	70-130			
2-Hexanone (MBK)	97.1	10	µg/L	100		97.1	70-160			†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130			
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.0		101	70-130			
Methyl Acetate	16.8	1.0	µg/L	10.0		168 *	70-130			L-02, V-20
Methyl tert-Butyl Ether (MTBE)	11.7	1.0	µg/L	10.0		117	70-130			
Methyl Cyclohexane	9.01	1.0	µg/L	10.0		90.1	70-130			
Methylene Chloride	10.3	5.0	µg/L	10.0		103	70-130			
4-Methyl-2-pentanone (MIBK)	99.2	10	µg/L	100		99.2	70-160			†
Naphthalene	8.50	2.0	µg/L	10.0		85.0	40-130			†
n-Propylbenzene	9.96	1.0	µg/L	10.0		99.6	70-130			
Styrene	11.0	1.0	µg/L	10.0		110	70-130			
1,1,1,2-Tetrachloroethane	11.2	1.0	µg/L	10.0		112	70-130			
1,1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.0		112	70-130			
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Tetrahydrofuran	11.0	10	µg/L	10.0		110	70-130			
Toluene	10.4	1.0	µg/L	10.0		104	70-130			
1,2,3-Trichlorobenzene	8.58	5.0	µg/L	10.0		85.8	70-130			
1,2,4-Trichlorobenzene	8.57	1.0	µg/L	10.0		85.7	70-130			
1,3,5-Trichlorobenzene	9.48	1.0	µg/L	10.0		94.8	70-130			
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130			
Trichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0		111	70-130			
1,2,3-Trichloropropane	9.61	2.0	µg/L	10.0		96.1	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308484 - SW-846 5030B
LCS (B308484-BS1)

Prepared & Analyzed: 05/16/22

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.5	1.0	µg/L	10.0		125	70-130			V-20
1,2,4-Trimethylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Vinyl Chloride	8.87	2.0	µg/L	10.0		88.7	40-160			†
m+p Xylene	20.7	2.0	µg/L	20.0		104	70-130			
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130			
Xylenes (total)	31.4	1.0	µg/L	30.0		104	0-200			
Surrogate: 1,2-Dichloroethane-d4	25.5		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			

LCS Dup (B308484-BSD1)

Prepared & Analyzed: 05/16/22

Acetone	112	50	µg/L	100		112	70-160	2.84	25	†
Acrylonitrile	10.5	5.0	µg/L	10.0		105	70-130	2.02	25	
tert-Amyl Methyl Ether (TAME)	11.2	0.50	µg/L	10.0		112	70-130	0.801	25	
Benzene	9.62	1.0	µg/L	10.0		96.2	70-130	1.78	25	
Bromobenzene	9.84	1.0	µg/L	10.0		98.4	70-130	0.816	25	
Bromochloromethane	9.14	1.0	µg/L	10.0		91.4	70-130	0.654	25	
Bromodichloromethane	11.2	0.50	µg/L	10.0		112	70-130	2.98	25	
Bromoform	11.4	1.0	µg/L	10.0		114	70-130	0.351	25	
Bromomethane	11.4	2.0	µg/L	10.0		114	40-160	4.05	25	†
2-Butanone (MEK)	95.1	20	µg/L	100		95.1	40-160	4.49	25	†
tert-Butyl Alcohol (TBA)	144	20	µg/L	100		144	40-160	3.07	25	V-20 †
n-Butylbenzene	9.16	1.0	µg/L	10.0		91.6	70-130	2.10	25	
sec-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130	0.598	25	
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130	0.564	25	
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0		101	70-130	0.786	25	
Carbon Disulfide	88.4	5.0	µg/L	100		88.4	70-130	2.50	25	
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103	70-130	1.07	25	
Chlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	0.923	25	
Chlorodibromomethane	11.4	0.50	µg/L	10.0		114	70-130	0.262	25	
Chloroethane	11.9	2.0	µg/L	10.0		119	70-130	1.25	25	
Chloroform	10.3	2.0	µg/L	10.0		103	70-130	1.76	25	
Chloromethane	8.92	2.0	µg/L	10.0		89.2	40-160	0.447	25	†
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	0.691	25	
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	1.46	25	
1,2-Dibromo-3-chloropropane (DBCP)	11.6	5.0	µg/L	10.0		116	70-130	3.87	25	
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130	1.30	25	
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130	3.75	25	
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	0.569	25	
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.38	25	
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	4.24	25	
trans-1,4-Dichloro-2-butene	11.0	2.0	µg/L	10.0		110	70-130	0.549	25	
Dichlorodifluoromethane (Freon 12)	9.07	2.0	µg/L	10.0		90.7	40-160	2.46	25	†
1,1-Dichloroethane	9.54	1.0	µg/L	10.0		95.4	70-130	1.58	25	
1,2-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130	0.569	25	
1,1-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	3.76	25	
cis-1,2-Dichloroethylene	9.89	1.0	µg/L	10.0		98.9	70-130	2.98	25	
trans-1,2-Dichloroethylene	9.33	1.0	µg/L	10.0		93.3	70-130	2.17	25	
1,2-Dichloropropane	9.79	1.0	µg/L	10.0		97.9	70-130	1.03	25	
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130	0.488	25	
2,2-Dichloropropane	9.85	1.0	µg/L	10.0		98.5	40-130	0.607	25	†

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308484 - SW-846 5030B										
LCS Dup (B308484-BSD1)										
Prepared & Analyzed: 05/16/22										
1,1-Dichloropropene	9.48	2.0	µg/L	10.0		94.8	70-130	1.92	25	
cis-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130	0.695	25	
trans-1,3-Dichloropropene	9.88	0.50	µg/L	10.0		98.8	70-130	0.507	25	
Diethyl Ether	10.8	2.0	µg/L	10.0		108	70-130	2.35	25	
Diisopropyl Ether (DIPE)	8.99	0.50	µg/L	10.0		89.9	70-130	0.333	25	
1,4-Dioxane	120	50	µg/L	100		120	40-130	8.11	50	† ‡
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	0.290	25	
Hexachlorobutadiene	9.76	0.60	µg/L	10.0		97.6	70-130	2.93	25	
2-Hexanone (MBK)	101	10	µg/L	100		101	70-160	3.72	25	†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130	0.185	25	
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.0		101	70-130	0.496	25	
Methyl Acetate	16.7	1.0	µg/L	10.0		167 *	70-130	0.716	25	L-02, V-20
Methyl tert-Butyl Ether (MTBE)	11.7	1.0	µg/L	10.0		117	70-130	0.00	25	
Methyl Cyclohexane	8.79	1.0	µg/L	10.0		87.9	70-130	2.47	25	
Methylene Chloride	10.6	5.0	µg/L	10.0		106	70-130	2.58	25	
4-Methyl-2-pentanone (MIBK)	103	10	µg/L	100		103	70-160	3.66	25	†
Naphthalene	8.59	2.0	µg/L	10.0		85.9	40-130	1.05	25	†
n-Propylbenzene	9.91	1.0	µg/L	10.0		99.1	70-130	0.503	25	
Styrene	11.0	1.0	µg/L	10.0		110	70-130	0.727	25	
1,1,1,2-Tetrachloroethane	11.2	1.0	µg/L	10.0		112	70-130	0.446	25	
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113	70-130	0.710	25	
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130	0.188	25	
Tetrahydrofuran	11.4	10	µg/L	10.0		114	70-130	3.13	25	
Toluene	10.5	1.0	µg/L	10.0		105	70-130	0.763	25	
1,2,3-Trichlorobenzene	8.69	5.0	µg/L	10.0		86.9	70-130	1.27	25	
1,2,4-Trichlorobenzene	8.69	1.0	µg/L	10.0		86.9	70-130	1.39	25	
1,3,5-Trichlorobenzene	9.15	1.0	µg/L	10.0		91.5	70-130	3.54	25	
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	0.937	25	
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111	70-130	1.72	25	
Trichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	0.564	25	
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	70-130	1.87	25	
1,2,3-Trichloropropane	9.92	2.0	µg/L	10.0		99.2	70-130	3.17	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.9	1.0	µg/L	10.0		129	70-130	3.46	25	V-20
1,2,4-Trimethylbenzene	10.0	1.0	µg/L	10.0		100	70-130	0.200	25	
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	0.386	25	
Vinyl Chloride	9.02	2.0	µg/L	10.0		90.2	40-160	1.68	25	†
m+p Xylene	20.9	2.0	µg/L	20.0		104	70-130	0.818	25	
o-Xylene	10.7	1.0	µg/L	10.0		107	70-130	0.188	25	
Xylenes (total)	31.5	1.0	µg/L	30.0		105	0-200	0.604		
Surrogate: 1,2-Dichloroethane-d4	24.9		µg/L	25.0		99.5	70-130			
Surrogate: Toluene-d8	25.8		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.4	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308546 - SW-846 5030B										
Blank (B308546-BLK1)										
Prepared & Analyzed: 05/17/22										
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-34
2-Butanone (MEK)	ND	20	µg/L							V-05
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, 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							V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							V-05
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							V-05
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							V-05

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308546 - SW-846 5030B										
Blank (B308546-BLK1)										
Prepared & Analyzed: 05/17/22										
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							V-05
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							V-05
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	23.7		µg/L	25.0		94.7	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		99.8	70-130			
LCS (B308546-BS1)										
Prepared & Analyzed: 05/17/22										
Acetone	90.9	50	µg/L	100		90.9	70-160			†
Acrylonitrile	10.4	5.0	µg/L	10.0		104	70-130			
tert-Amyl Methyl Ether (TAME)	10.1	0.50	µg/L	10.0		101	70-130			
Benzene	10.3	1.0	µg/L	10.0		103	70-130			
Bromobenzene	11.5	1.0	µg/L	10.0		115	70-130			
Bromochloromethane	13.1	1.0	µg/L	10.0		131 *	70-130			L-07
Bromodichloromethane	10.7	0.50	µg/L	10.0		107	70-130			
Bromoform	12.5	1.0	µg/L	10.0		125	70-130			V-20
Bromomethane	22.8	2.0	µg/L	10.0		228 *	40-160			L-02, V-20, V-34 †
2-Butanone (MEK)	75.9	20	µg/L	100		75.9	40-160			V-05 †
tert-Butyl Alcohol (TBA)	84.6	20	µg/L	100		84.6	40-160			†
n-Butylbenzene	9.34	1.0	µg/L	10.0		93.4	70-130			
sec-Butylbenzene	9.57	1.0	µg/L	10.0		95.7	70-130			
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.83	0.50	µg/L	10.0		98.3	70-130			
Carbon Disulfide	96.6	5.0	µg/L	100		96.6	70-130			
Carbon Tetrachloride	11.1	5.0	µg/L	10.0		111	70-130			
Chlorobenzene	12.0	1.0	µg/L	10.0		120	70-130			
Chlorodibromomethane	12.0	0.50	µg/L	10.0		120	70-130			
Chloroethane	14.6	2.0	µg/L	10.0		146 *	70-130			L-02, V-20

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308546 - SW-846 5030B										
LCS (B308546-BS1)										
Prepared & Analyzed: 05/17/22										
Chloroform	10.1	2.0	µg/L	10.0		101	70-130			
Chloromethane	4.35	2.0	µg/L	10.0		43.5	40-160			V-05, V-34 †
2-Chlorotoluene	11.2	1.0	µg/L	10.0		112	70-130			
4-Chlorotoluene	11.3	1.0	µg/L	10.0		113	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.58	5.0	µg/L	10.0		75.8	70-130			V-05
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130			
Dibromomethane	11.8	1.0	µg/L	10.0		118	70-130			
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
trans-1,4-Dichloro-2-butene	10.7	2.0	µg/L	10.0		107	70-130			
Dichlorodifluoromethane (Freon 12)	8.69	2.0	µg/L	10.0		86.9	40-160			V-05 †
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,1-Dichloroethylene	13.8	1.0	µg/L	10.0		138 *	70-130			L-02, V-20
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	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	10.4	2.0	µg/L	10.0		104	70-130			
cis-1,3-Dichloropropene	9.68	0.50	µg/L	10.0		96.8	70-130			
trans-1,3-Dichloropropene	9.75	0.50	µg/L	10.0		97.5	70-130			
Diethyl Ether	11.8	2.0	µg/L	10.0		118	70-130			
Diisopropyl Ether (DIPE)	9.43	0.50	µg/L	10.0		94.3	70-130			
1,4-Dioxane	103	50	µg/L	100		103	40-130			†
Ethylbenzene	11.5	1.0	µg/L	10.0		115	70-130			
Hexachlorobutadiene	8.05	0.60	µg/L	10.0		80.5	70-130			V-05
2-Hexanone (MBK)	86.2	10	µg/L	100		86.2	70-160			†
Isopropylbenzene (Cumene)	11.9	1.0	µg/L	10.0		119	70-130			
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0		104	70-130			
Methyl Acetate	7.21	1.0	µg/L	10.0		72.1	70-130			V-05
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102	70-130			
Methyl Cyclohexane	11.1	1.0	µg/L	10.0		111	70-130			
Methylene Chloride	9.75	5.0	µg/L	10.0		97.5	70-130			
4-Methyl-2-pentanone (MIBK)	90.0	10	µg/L	100		90.0	70-160			†
Naphthalene	8.13	2.0	µg/L	10.0		81.3	40-130			V-05 †
n-Propylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
Styrene	12.2	1.0	µg/L	10.0		122	70-130			
1,1,1,2-Tetrachloroethane	12.7	1.0	µg/L	10.0		127	70-130			
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113	70-130			
Tetrachloroethylene	12.4	1.0	µg/L	10.0		124	70-130			
Tetrahydrofuran	9.25	10	µg/L	10.0		92.5	70-130			
Toluene	10.9	1.0	µg/L	10.0		109	70-130			
1,2,3-Trichlorobenzene	7.98	5.0	µg/L	10.0		79.8	70-130			V-05
1,2,4-Trichlorobenzene	9.00	1.0	µg/L	10.0		90.0	70-130			
1,3,5-Trichlorobenzene	9.39	1.0	µg/L	10.0		93.9	70-130			
1,1,1-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130			
Trichloroethylene	11.8	1.0	µg/L	10.0		118	70-130			
Trichlorofluoromethane (Freon 11)	12.7	2.0	µg/L	10.0		127	70-130			
1,2,3-Trichloropropane	12.4	2.0	µg/L	10.0		124	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308546 - SW-846 5030B										
LCS (B308546-BS1)										
Prepared & Analyzed: 05/17/22										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	15.1	1.0	µg/L	10.0		151	* 70-130			L-02, V-20
1,2,4-Trimethylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130			
1,3,5-Trimethylbenzene	11.9	1.0	µg/L	10.0		119	70-130			
Vinyl Chloride	10.3	2.0	µg/L	10.0		103	40-160			†
m+p Xylene	23.6	2.0	µg/L	20.0		118	70-130			
o-Xylene	11.3	1.0	µg/L	10.0		113	70-130			
Xylenes (total)	34.9	1.0	µg/L	30.0		116	0-200			
Surrogate: 1,2-Dichloroethane-d4	21.4		µg/L	25.0		85.7	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	26.0		µg/L	25.0		104	70-130			
LCS Dup (B308546-BSD1)										
Prepared & Analyzed: 05/17/22										
Acetone	93.6	50	µg/L	100		93.6	70-160	2.94	25	†
Acrylonitrile	10.5	5.0	µg/L	10.0		105	70-130	0.383	25	
tert-Amyl Methyl Ether (TAME)	10.2	0.50	µg/L	10.0		102	70-130	1.18	25	
Benzene	10.5	1.0	µg/L	10.0		105	70-130	2.31	25	
Bromobenzene	11.6	1.0	µg/L	10.0		116	70-130	0.952	25	
Bromochloromethane	12.6	1.0	µg/L	10.0		126	70-130	3.51	25	
Bromodichloromethane	10.7	0.50	µg/L	10.0		107	70-130	0.468	25	
Bromoform	12.9	1.0	µg/L	10.0		129	70-130	3.22	25	V-20
Bromomethane	23.1	2.0	µg/L	10.0		231	* 40-160	1.26	25	L-02, V-20, V-34 †
2-Butanone (MEK)	78.3	20	µg/L	100		78.3	40-160	3.07	25	V-05 †
tert-Butyl Alcohol (TBA)	87.6	20	µg/L	100		87.6	40-160	3.47	25	†
n-Butylbenzene	9.47	1.0	µg/L	10.0		94.7	70-130	1.38	25	
sec-Butylbenzene	9.84	1.0	µg/L	10.0		98.4	70-130	2.78	25	
tert-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	3.99	25	
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0		101	70-130	2.91	25	
Carbon Disulfide	97.1	5.0	µg/L	100		97.1	70-130	0.475	25	
Carbon Tetrachloride	11.0	5.0	µg/L	10.0		110	70-130	1.45	25	
Chlorobenzene	12.0	1.0	µg/L	10.0		120	70-130	0.333	25	
Chlorodibromomethane	11.8	0.50	µg/L	10.0		118	70-130	1.85	25	
Chloroethane	14.3	2.0	µg/L	10.0		143	* 70-130	2.21	25	L-02, V-20
Chloroform	9.95	2.0	µg/L	10.0		99.5	70-130	1.20	25	
Chloromethane	4.34	2.0	µg/L	10.0		43.4	40-160	0.230	25	V-34, V-05 †
2-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130	1.62	25	
4-Chlorotoluene	11.5	1.0	µg/L	10.0		115	70-130	1.85	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.92	5.0	µg/L	10.0		89.2	70-130	16.2	25	V-05
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111	70-130	1.54	25	
Dibromomethane	11.7	1.0	µg/L	10.0		117	70-130	0.426	25	
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	4.18	25	
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	3.36	25	
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	2.57	25	
trans-1,4-Dichloro-2-butene	11.2	2.0	µg/L	10.0		112	70-130	4.38	25	
Dichlorodifluoromethane (Freon 12)	8.84	2.0	µg/L	10.0		88.4	40-160	1.71	25	V-05 †
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130	4.23	25	
1,2-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130	1.89	25	
1,1-Dichloroethylene	13.7	1.0	µg/L	10.0		137	* 70-130	0.581	25	L-02, V-20
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	3.41	25	
trans-1,2-Dichloroethylene	11.0	1.0	µg/L	10.0		110	70-130	0.641	25	
1,2-Dichloropropane	10.9	1.0	µg/L	10.0		109	70-130	1.01	25	
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130	0.291	25	
2,2-Dichloropropane	11.1	1.0	µg/L	10.0		111	40-130	3.68	25	†

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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 B308546 - SW-846 5030B										
LCS Dup (B308546-BSD1)										
Prepared & Analyzed: 05/17/22										
1,1-Dichloropropene	10.5	2.0	µg/L	10.0		105	70-130	0.573	25	
cis-1,3-Dichloropropene	9.94	0.50	µg/L	10.0		99.4	70-130	2.65	25	
trans-1,3-Dichloropropene	9.69	0.50	µg/L	10.0		96.9	70-130	0.617	25	
Diethyl Ether	12.3	2.0	µg/L	10.0		123	70-130	4.49	25	
Diisopropyl Ether (DIPE)	9.80	0.50	µg/L	10.0		98.0	70-130	3.85	25	
1,4-Dioxane	107	50	µg/L	100		107	40-130	4.60	50	† ‡
Ethylbenzene	11.5	1.0	µg/L	10.0		115	70-130	0.261	25	
Hexachlorobutadiene	8.03	0.60	µg/L	10.0		80.3	70-130	0.249	25	V-05
2-Hexanone (MBK)	86.9	10	µg/L	100		86.9	70-160	0.809	25	†
Isopropylbenzene (Cumene)	12.0	1.0	µg/L	10.0		120	70-130	1.17	25	
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.0		106	70-130	2.28	25	
Methyl Acetate	7.78	1.0	µg/L	10.0		77.8	70-130	7.61	25	V-05
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.0		105	70-130	2.51	25	
Methyl Cyclohexane	11.2	1.0	µg/L	10.0		112	70-130	0.359	25	
Methylene Chloride	9.83	5.0	µg/L	10.0		98.3	70-130	0.817	25	
4-Methyl-2-pentanone (MIBK)	92.6	10	µg/L	100		92.6	70-160	2.90	25	†
Naphthalene	8.37	2.0	µg/L	10.0		83.7	40-130	2.91	25	V-05 †
n-Propylbenzene	11.5	1.0	µg/L	10.0		115	70-130	1.75	25	
Styrene	12.3	1.0	µg/L	10.0		123	70-130	0.0816	25	
1,1,1,2-Tetrachloroethane	12.8	1.0	µg/L	10.0		128	70-130	0.864	25	
1,1,2,2-Tetrachloroethane	11.5	0.50	µg/L	10.0		115	70-130	1.23	25	
Tetrachloroethylene	12.2	1.0	µg/L	10.0		122	70-130	1.71	25	
Tetrahydrofuran	9.32	10	µg/L	10.0		93.2	70-130	0.754	25	
Toluene	10.8	1.0	µg/L	10.0		108	70-130	0.460	25	
1,2,3-Trichlorobenzene	8.14	5.0	µg/L	10.0		81.4	70-130	1.99	25	V-05
1,2,4-Trichlorobenzene	9.09	1.0	µg/L	10.0		90.9	70-130	0.995	25	
1,3,5-Trichlorobenzene	9.58	1.0	µg/L	10.0		95.8	70-130	2.00	25	
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	1.48	25	
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	2.30	25	
Trichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	3.72	25	
Trichlorofluoromethane (Freon 11)	13.0	2.0	µg/L	10.0		130	70-130	2.41	25	
1,2,3-Trichloropropane	13.1	2.0	µg/L	10.0		131 *	70-130	5.09	25	L-07
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	15.0	1.0	µg/L	10.0		150 *	70-130	0.666	25	L-02, V-20
1,2,4-Trimethylbenzene	9.89	1.0	µg/L	10.0		98.9	70-130	1.02	25	
1,3,5-Trimethylbenzene	11.9	1.0	µg/L	10.0		119	70-130	0.168	25	
Vinyl Chloride	10.3	2.0	µg/L	10.0		103	40-160	0.0972	25	†
m+p Xylene	23.5	2.0	µg/L	20.0		118	70-130	0.170	25	
o-Xylene	11.2	1.0	µg/L	10.0		112	70-130	0.798	25	
Xylenes (total)	34.8	1.0	µg/L	30.0		116	0-200	0.373		
Surrogate: 1,2-Dichloroethane-d4	21.5		µg/L	25.0		86.0	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	25.5		µg/L	25.0		102	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 B308458 - SW-846 3510C									
Blank (B308458-BLK1)					Prepared: 05/16/22 Analyzed: 05/17/22				
TPH (C9-C36)	ND	0.20	mg/L						
Surrogate: 2-Fluorobiphenyl	0.0607		mg/L	0.100		60.7 40-140			
LCS (B308458-BS1)					Prepared: 05/16/22 Analyzed: 05/17/22				
TPH (C9-C36)	0.813	0.20	mg/L	1.00		81.3 40-140			
Surrogate: 2-Fluorobiphenyl	0.0595		mg/L	0.100		59.5 40-140			
LCS Dup (B308458-BSD1)					Prepared: 05/16/22 Analyzed: 05/17/22				
TPH (C9-C36)	0.753	0.20	mg/L	1.00		75.3 40-140	7.70	25	
Surrogate: 2-Fluorobiphenyl	0.0513		mg/L	0.100		51.3 40-140			

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QUALITY CONTROL
Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308748 - SW-846 3005A Dissolved										
Blank (B308748-BLK1)				Prepared: 05/18/22 Analyzed: 05/19/22						
Lead	ND	0.50	µg/L							
LCS (B308748-BS1)				Prepared: 05/18/22 Analyzed: 05/19/22						
Lead	97.9	0.50	µg/L	100		97.9	80-120			

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-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
RL-11	Elevated reporting limit due to high concentration of target compounds.
RL-12	Elevated reporting limit due to matrix interference.
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	The sample exhibits a chromatographic pattern similar to #2 fuel.

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

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

22 E 0900

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 Name: Textron Providence
Project Location: 333 Adelaide Avenue, Providence, RI
Project Number: 631010697 - 005
Project Manager: Catherine Joe
Pace Analytical Quote Name/Number: PO 216859
Invoice Recipient: Catherine Joe
Sampled By: Dan Leahy 617-212-8276

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

Field Filtered Lab to Filter:
Orthophosphate Samples Lab to Filter:
PCB ONLY:
 SOXHLET
 NON SOXHLET

Preservation Code:
 Counter Use Only
 Total Number Of:
 VIALS _____
 GLASS _____
 PLASTIC _____
 BACTERIA _____
 ENCORE _____
 Glassware in the fridge?
 Glassware in freezer?
 Prepackaged Coolers?
 *Pace Analytical is not responsible for missing samples from prepacked coolers

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	Special Requirements	MA State DW Required
11	V MW-2025-20220512	5/12/22 1330	5/12/22 1330	GRAB	GW	U	3						
12	V MW-202D-20220512	5/12/22 1345	5/12/22 1345		GW		3						
13	V MW-1015-20220512	5/12/22 1405	5/12/22 1405		GW		3						
14	V MW-1015-20220512	5/12/22 1405	5/12/22 1405		GW		3						
15	V MW-101D-20220512	5/12/22 1435	5/12/22 1435		GW		3						
16	V MW-201D-20220512	5/12/22 1520	5/12/22 1520		GW		3						
17	V MW-209D-20220513	5/13/22 0630	5/13/22 0630		GW		3						
18	V MW-112-20220513	5/13/22 0700	5/13/22 0700		GW		3						
19	V MW-318-20220513	5/13/22 0730	5/13/22 0730		GW		3						
20	V MW-318-20220513	5/13/22 0800	5/13/22 0800		GW		3						

EPA 8260C (VOCs) Total Petroleum Hydrocarbons Dissolved Lead

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)

Client Comments:
 Date/Time: 5/13/22 1400
 Date/Time: 5-13-22 1400
 Date/Time: 5/13/22 1600
 Date/Time: 5/13/22 1600
 Date/Time: 5/13/22 1750
 Date/Time: 5/13/22 1750

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

Detection Limit Requirements:
 MA MA MCP Required
 CT MCP Certification Form Required
 Other: CT RCP Required
 RCP Certification Form Required

Special Requirements:
 MA State DW Required
 PMSID # _____
 Government Municipality WRMA
 Federal 21 J School
 City Brownfield MBTA

Project Entity:
 Government Municipality WRMA
 Federal 21 J School
 City Brownfield MBTA

Other: Chromatogram
 ALPHA-LAP, LLC

Lab 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.

22E0900

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

https://www.pacelabs.com/

Doc # 381 Rev 4_01/08/2020

Page 3 of 3

Pace Analytical
 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 Name: Textron Providence
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 Project Number: 631010697 - 005
 Project Manager: Catherine Joe
 PO 216859
 Pace Analytical Quote Name/Number: Catherine Joe
 Invoice Recipient: Catherine Joe
 Sampled By: Dan Leahy 617-212-8276

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

Requested Turnaround Time
 7-Day 10-Day Due Date: _____
 PFAS 10-Day (std) Rush Approval Required

Disinfectant/Preservative Samples
 Field Filtered Lab to Filter
 Orthophosphate Samples
 Field Filtered Lab to Filter

Data Delivery
 Format: PDF EXCEL
 Other: Equis Format
 CLP Like Data Pkg Required:
 Email To: catherine.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	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	ANALYSIS REQUESTED	Preservation Code
21	MW-2165-20220513	5/13/22	0900	608B	GW	U							
22	MW-216D-20220513	5/13/22	0940		GW								
23	MW-2175-20220513	5/13/22	1000		GW								
24	MW-217D-20220513	5/13/22	1040		GW								
25	MW-1165-20220513	5/13/22	1130		GW								
26	MW-116D-20220513	5/13/22	1200		GW								

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 WRTA Other
 Federal 21 J School Chromatogram
 City Brownfield MBTA ALPHA-LAP, LLC

Client Comments:
 Dissolved Lead
 Total Petroleum Hydrocarbons
 EPA 8260C (VOCs)

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

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

3 Preservation Code
 Courier Use Only
 Total Number Of:
 VIALS _____
 GLASS _____
 PLASTIC _____
 BACTERIA _____
 ENCORE _____

Glassware in the fridge? Y N
Glassware in freezer? Y N
Prepackaged Cooler? Y N
 *Pace Analytical is not responsible for missing samples from prepackaged coolers

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

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

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

MA, MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required
 PWSID #

Government Municipality WRTA Other
 Federal 21 J School Chromatogram
 City Brownfield MBTA ALPHA-LAP, LLC

Lab Comments:
 Relinquished by: (signature) _____ Date/Time: 5/13/22 1400
 Received by: (signature) _____ Date/Time: 5-13-22 1400
 Relinquished by: (signature) _____ Date/Time: 5/13/22 1600
 Received by: (signature) _____ Date/Time: 5/13/22 1600
 Relinquished by: (signature) _____ Date/Time: 5/13/22 1750
 Received by: (signature) _____ Date/Time: 5/13/22 1750

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.

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False

Statement will be brought to the attention of the Client - State True or False

Client Aptim
 Received By DK Date 5/13/22 Time 1750
 How were the samples received? In Cooler 7 No Cooler _____ On Ice 7 No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C 7 By Gun # 3 Actual Temp - 2.0
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? 7 Does Chain Agree With Samples? 7
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? 7 Were samples received within holding time? 7
 Did COC include all pertinent Information? Client 7 Analysis 7 Sampler Name 7
 Project 7 ID's 7 Collection Dates/Times 7
 Are Sample labels filled out and legible? 7
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? 7
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? 7 Is splitting samples required? F
 Were trip blanks received? 7 On COC? F
 Do all samples have the proper pH? Acid 7 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	<u>4</u>	1 Liter Plastic		16 oz Amb.	
HCL-	<u>68</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	<u>3</u>	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments: