



APTIM  
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January 4, 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: June 2021 through November 2021 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 August and November of 2021.

### ***Field Activities***

#### **Limited VOC Sampling Activities August and November 2021**

Limited groundwater gauging and sampling was conducted on August 16, 2021 and November 30, 2021. 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 8260C) from the three monitoring wells (MW-112, MW-116D, and MW-116S) on August 16 and November 30, 2021. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

### Semi-Annual Groundwater Sampling Activities November 2021

The monitoring wells that comprise the larger semi-annual groundwater monitoring program were monitored for field parameters and sampled for analysis on November 29 and 30, 2021.

### Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on November 29 and 30, 2021. 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 November 29 and 30, 2021 groundwater samples were collected for analysis for VOCs (EPA Method 8260C-D) 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 duplicate sample was collected for total petroleum hydrocarbon (TPH) analysis (modified EPA Method 8100) 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 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 August 16 and November 29 and 30, 2021 is contained in **Table 3**. A copy of each laboratory analytical report is also attached to this report. During these sampling events, measured PCE concentrations were below the treatment goal of 7,700 µg/L in all wells, apart from MW-218D which had a concentration of 8,900 ug/L. During this reporting period the next highest PCE concentrations were detected in wells, MW-201D at 3,900 µg/L and MW-209D at 230 µg/L, respectively.

A summary of the compliance well results is contained in **Table 4**. The results for the compliance well sampling indicate that an exceedance of the compliance standard occurred for PCE at the Adelaide Avenue wells MW-209D and MW-218S on November 30, 2021. (Note that due to sample dilution by the

laboratory, the analytical reporting limits for vinyl chloride, in wells MW-112 and MW-209D, on November 30, 2021, were above the compound specific compliance standard).

### ***Future Activities***

Future limited sampling will be conducted in February 2022 and the larger semi-annual sampling event will be conducted in May 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](mailto: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 – June 2021 – November 2021  
Table 4 – Groundwater Analytical Results in Compliance Wells – June 2021 – November 2021

Figure 1 – Site Plan  
Figure 2 – Injection Well Locations

#### Attachment A - Laboratory Analytical Reports

cc: Craig Roy, RIDEM OWR – email  
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 January 4, 2022, certify that the information contained in this report is complete and accurate to the best of my knowledge.



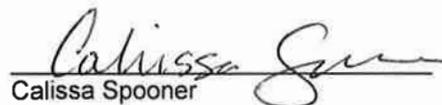
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Catherine Joe  
Project Manager

1/4/2022  
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.

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Calissa Spooner  
Project Manager

1.6.2022  
Date:

## ***TABLES***

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**Table 1**  
**Summary Field Parameters**  
**June 2021 - November 2021**

Former Gorham Manufacturing Facility  
 Providence, Rhode Island

<b>Location</b>	<b>Date</b>	<b>Dissolved Oxygen</b> <b>mg/L</b>	<b>Oxidation Reduction Potential</b> <b>mV</b>	<b>pH</b> <b>unit</b>	<b>Specific Conductivity</b> <b>mS/cm</b>	<b>Temperature</b> <b>C°</b>
MW-101D	11/29/2021	2.04	34.7	5.94	0.021	15.06
MW-101S	11/29/2021	5.82	-35.6	6.37	0.723	15.53
MW-112	11/30/2021	5.8	85.2	6.23	1.559	13.52
MW-116D	11/30/2021	3.37	112.4	5.98	0.138	14.58
MW-116S	11/30/2021	4.91	102.7	6.2	0.111	13.7
MW-201D	11/29/2021	1.05	88.7	6.37	0.811	14.66
MW-202D	11/29/2021	4.02	68.8	6.57	0.056	16.15
MW-202S	11/29/2021	3.79	96.4	6.54	0.595	16.36
MW-207D	11/29/2021	1.24	42.9	6.87	0.035	16.45
MW-207S	11/29/2021	3.04	48.4	7.19	0.538	15.64
MW-209D	11/30/2021	1.63	57.4	6.28	0.856	13.35
MW-216D	11/30/2021	3.8	144.6	6.37	0.834	15.28
MW-216S	11/30/2021	2.04	-93	6.89	1.166	15.62
MW-217D	11/30/2021	1.39	-37.5	6.88	0.932	14.31
MW-217S	11/30/2021	0.61	-43.6	6.72	2.523	16
MW-218D	11/30/2021	3.16	93.1	6.23	1.057	13.9
MW-218S	11/30/2021	0.76	109.1	5.73	0.974	14.83

Notes:

C° = degrees Celsius

mS/cm = millisiemens per centimeter

mg/L = milligrams per liter

mV = milli volts

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
**(June 2021 - November 2021)**  
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)	Notes
CW-01	11/29/2021	99.52	25.6	--	--	73.92	DTB = 54.75 FT
CW-02	11/29/2021	98.86	24.7	--	--	74.16	DTB = 55.33 FT
CW-06	11/29/2021	99.52	25.58	--	--	73.94	DTB = 33.01 FT
GZA-3	11/29/2021	NA	16.75	--	--	NA	DTB = 22.03 FT
MW-101D	11/29/2021	98.91	25.69	--	--	73.22	DTB = 45.67 FT
MW-101S	11/29/2021	98.9	24.73	--	--	74.17	DTB = 28.41 FT
MW-109D	11/29/2021	NA	15.78	--	--	NA	DTB = 74.77 FT
MW-112	8/16/2021	100.63	Dry	--	--	Dry	DTB = 34.49 FT
	11/30/2021	100.63	26.35	--	--	74.28	DTB = 34.91 FT
MW-116D	8/16/2021	98.92	Dry	--	--	Dry	DTB = 44.13 FT
	11/30/2021	98.92	25.2	--	--	73.72	DTB = 44.52 FT
MW-116S	8/16/2021	99.4	Dry	--	--	Dry	DTB = 28.53 FT
	11/30/2021	99.4	22.76	--	--	76.64	DTB = 28.42 FT
MW-201D	11/29/2021	98.8	24.55	--	--	74.25	DTB = 47.53 FT
MW-202D	11/29/2021	98.17	24.43	--	--	73.74	DTB = 46.60 FT
MW-202S	11/29/2021	98.06	25.3	--	--	72.76	DTB = 37.96 FT
MW-207D	11/29/2021	98.18	24.46	--	--	73.72	DTB = 50.85 FT
MW-207S	11/29/2021	98.28	24.09	--	--	74.19	DTB = 37.38 FT
MW-209D	11/30/2021	99.9	26.35	--	--	73.55	DTB = 62.82 FT
MW-216D	11/30/2021	98.69	25.28	--	--	73.41	DTB = 39.28 FT
MW-216S	11/30/2021	99.58	25.32	--	--	74.26	DTB = 29.62 FT
MW-217D	11/30/2021	98.65	24.68	--	--	73.97	DTB = 47.28 FT
MW-217S	11/30/2021	98.71	24.65	--	--	74.06	DTB = 26.34 FT
MW-218D	11/30/2021	99.67	25.42	--	--	74.25	DTB = 46.96 FT
MW-218S	11/30/2021	99.61	25.45	--	--	74.16	DTB = 29.48 FT
MW-220S	11/29/2021	99.41	25.21	--	--	74.20	DTB = 31.94 FT
MW-221S	11/29/2021	98.92	25.3	--	<0.01	73.62	

**Notes:**

Feet = feet measured below ground surface

NA = Not Available

NM = Not Measured

-- = No NAPL detected or no thickness

**TABLE 3**  
**Groundwater Analytical Results Detected Compounds**  
**June 2021 - November 2021**

Former Gorham Manufacturing Facility  
Providence, Rhode Island

Parameter	Location Code	CW-01	CW-02	CW-06		GZA-3		MW-101D	MW-101S		MW-109D	MW-112		
	Sample ID	CW-01-20211129	CW-02-20211129	CW-06-20211129	CW-06-20211129FD	GZA-3-20211129	GZA-3-20211129 FD	MW-101D-20211129	MW-101S-20211129	MW-101S-20211129FD	MW-109D-20211129	MW-112-20210816	MW-112-20211130	
	Sample Date	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	8/16/2021	11/30/2021
	Sample Purpose	N	N	N	FD	N	FD	N	N	FD	N	N	N	
Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
<b>VOLATILES</b>														
1,1-Dichloroethene	µg/L	8.6	< 1	--	--	< 1	--	< 1	< 2	< 2	< 1	< 1	< 2	
1,2,4-Trimethylbenzene	µg/L	< 5	< 1	--	--	< 1	--	< 1	< 2	< 2	< 1	< 1	< 2	
cis-1,2-Dichloroethene	µg/L	46	< 1	--	--	< 1	--	< 1	240	230	< 1	< 1	< 2	
Methyl Acetate	µg/L	19	< 1	--	--	< 1	--	< 1	< 2	< 2	< 1	< 1	< 2	
Methyltert-butylether	µg/L	< 5	1.6	--	--	< 1	--	< 1	< 2	< 2	< 1	< 1	< 2	
Naphthalene	µg/L	< 10	< 2	--	--	< 2	--	< 2	< 4	< 4	< 2	< 2	< 4	
o-Xylene	µg/L	< 5	< 1	--	--	< 1	--	< 1	< 2	< 2	< 1	< 1	< 2	
Tetrachloroethene	µg/L	< 5	< 1	--	--	< 1	--	1.8	120	120	< 1	67	61	
trans-1,2-Dichloroethene	µg/L	8.4	< 1	--	--	< 1	--	< 1	< 2	< 2	< 1	< 1	< 2	
Trichloroethene	µg/L	700	< 1	--	--	< 1	--	< 1	14	13	< 1	3.7	4.9	
Vinyl chloride	µg/L	< 10	< 2	--	--	6.4	--	< 2	< 4	< 4	< 2	< 2	< 4	
Xylene (total)	µg/L	< 5	< 1	--	--	< 1	--	< 1	< 2	< 2	< 1	< 1	< 2	
<b>TPH</b>														
TPH	mg/L	--	--	7.7	7.2	--	--	--	--	--	--	--	--	
<b>METALS, DISSOLVED</b>														
Lead	µg/L	--	--	--	--	58	51	--	--	--	< 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**  
**June 2021 - November 2021**

Former Gorham Manufacturing Facility  
Providence, Rhode Island

	Location Code	MW-116D		MW-116S		MW-201D	MW-202D	MW-202S	MW-207D	MW-207S	MW-209D	MW-216D	MW-216S
	Sample ID	MW-116D-20210816	MW-116D-20211130	MW-116S-20210816	MW-116S-20211130	MW-201D-20211129	MW-202D-20211129	MW-202S-20211129	MW-207D-20211129	MW-207S-20211129	MW-209D-20211130	MW-216D-20211130	MW-216S-20211130
	Sample Date	8/16/2021	11/30/2021	8/16/2021	11/30/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/30/2021	11/30/2021	11/30/2021
	Sample Purpose	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
<b>VOLATILES</b>													
1,1-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	< 25	< 1	< 1	< 1	< 1	< 4	< 1	< 5
1,2,4-Trimethylbenzene	µg/L	< 1	< 1	< 1	< 1	< 25	< 1	< 1	< 1	< 1	< 4	< 1	11
cis-1,2-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	46	< 1	< 1	< 1	< 1	21	< 1	32
Methyl Acetate	µg/L	< 1	< 1	< 1	< 1	49	< 1	< 1	< 1	< 1	18	< 1	19
Methyltert-butylether	µg/L	< 1	< 1	< 1	< 1	< 25	< 1	< 1	< 1	< 1	< 4	< 1	< 5
Naphthalene	µg/L	< 2	< 2	< 2	< 2	< 50	< 2	< 2	< 2	< 2	< 8	< 2	17
o-Xylene	µg/L	< 1	< 1	< 1	< 1	< 25	< 1	< 1	< 1	< 1	< 4	< 1	8.3
Tetrachloroethene	µg/L	< 1	1.3	< 1	< 1	3900	12	12	3.3	2.4	230	< 1	< 5
trans-1,2-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	< 25	< 1	< 1	< 1	< 1	< 4	< 1	< 5
Trichloroethene	µg/L	< 1	< 1	< 1	< 1	800	< 1	< 1	< 1	< 1	86	1.1	< 5
Vinyl chloride	µg/L	< 2	< 2	< 2	< 2	< 50	< 2	< 2	< 2	< 2	< 8	< 2	< 10
Xylene (total)	µg/L	< 1	< 1	< 1	< 1	< 25	< 1	< 1	< 1	< 1	< 4	< 1	8.3
TPH													
TPH	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
<b>METALS, DISSOLVED</b>													
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**  
**June 2021 - November 2021**

Former Gorham Manufacturing Facility  
 Providence, Rhode Island

	Location Code	MW-217D	MW-217S	MW-218D	MW-218S
	Sample ID	MW-217D-20211130	MW-217S-20211130	MW-218D-20211130	MW-218S-20211130
	Sample Date	11/30/2021	11/30/2021	11/30/2021	11/30/2021
	Sample Purpose	N	N	N	N
Parameter	Units	Result	Result	Result	Result
<b>VOLATILES</b>					
1,1-Dichloroethene	µg/L	< 1	< 2	< 200	< 1
1,2,4-Trimethylbenzene	µg/L	< 1	< 2	< 200	< 1
cis-1,2-Dichloroethene	µg/L	7	2.5	< 200	< 1
Methyl Acetate	µg/L	< 1	< 2	< 200	< 1
Methyltert-butylether	µg/L	< 1	< 2	< 200	< 1
Naphthalene	µg/L	< 2	< 4	< 400	< 2
o-Xylene	µg/L	< 1	< 2	< 200	< 1
Tetrachloroethene	µg/L	< 1	< 2	8900	170
trans-1,2-Dichloroethene	µg/L	< 1	< 2	< 200	< 1
Trichloroethene	µg/L	7.7	3.1	< 200	1.2
Vinyl chloride	µg/L	< 2	< 4	< 400	< 2
Xylene (total)	µg/L	< 1	< 2	< 200	< 1
<b>TPH</b>					
TPH	mg/L	--	--	--	--
<b>METALS, DISSOLVED</b>					
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**  
**June 2021 - November 2021**

Former Gorham Manufacturing Facility  
 Providence, Rhode Island

Mashapaug Pond Compliance Wells				
Sample ID	GZA-3	GZA-3	MW-109D	Compliance
Date Collected	11/29/2021	11/29/2021	11/29/2021	Standard <sup>1</sup>
CONSTITUENT	Primary	Duplicate 1	Primary	
<b>Metals (mg/L)</b>				
Lead	0.058	0.051	<0.0005	0.03
<b>VOCs (µg/L)</b>				
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	6.4	--	< 2	1,200

TPH Remediation Area Well			
Sample ID	CW-06	CW-06	Compliance
Date Collected	11/29/2021	11/29/2021	Standard <sup>1</sup>
CONSTITUENT	Primary	Duplicate	
<b>TPH (mg/L)</b>			
TPH	7.7	7.2	20

Sewer Interceptor Area Wells			
Sample ID	CW-01	CW-02	Compliance
Date Collected	11/29/2021	11/29/2021	Standard <sup>2</sup>
CONSTITUENT	Primary	Primary	
<b>VOCs (µg/L)</b>			
1,1-Dichloroethane	< 5	< 1	120,000
1,1-Dichloroethene	8.6	< 1	23,000
cis-1,2-Dichloroethene	46	< 1	69,000
trans-1,2-Dichloroethene	8.4	< 1	79,000
Tetrachloroethene	< 5	< 1	NS
Trichloroethene	700	< 1	87,000

Adelaide Avenue Wells					
Sample ID	MW-112	MW-112	MW-209D	MW-218S	Compliance
Date Collected	8/16/2021	11/30/2021	11/30/2021	11/30/2021	Standard <sup>3</sup>
CONSTITUENT	Primary	Primary	Primary	Primary	
<b>VOCs (µg/L)</b>					
1,1-Dichloroethane	< 1	< 2	< 4	< 1	2,400
1,1-Dichloroethene	< 1	< 2	< 4	< 1	7
cis-1,2-Dichloroethene	< 1	< 2	21	< 1	1,900
Methyl tert-butyl ether	< 1	< 2	< 4	< 1	5,000
Tetrachloroethene	67	61	230	170	150
Trichloroethene	3.7	4.9	86	1.2	540
Vinyl chloride	< 2	< 4	< 8	< 2	2

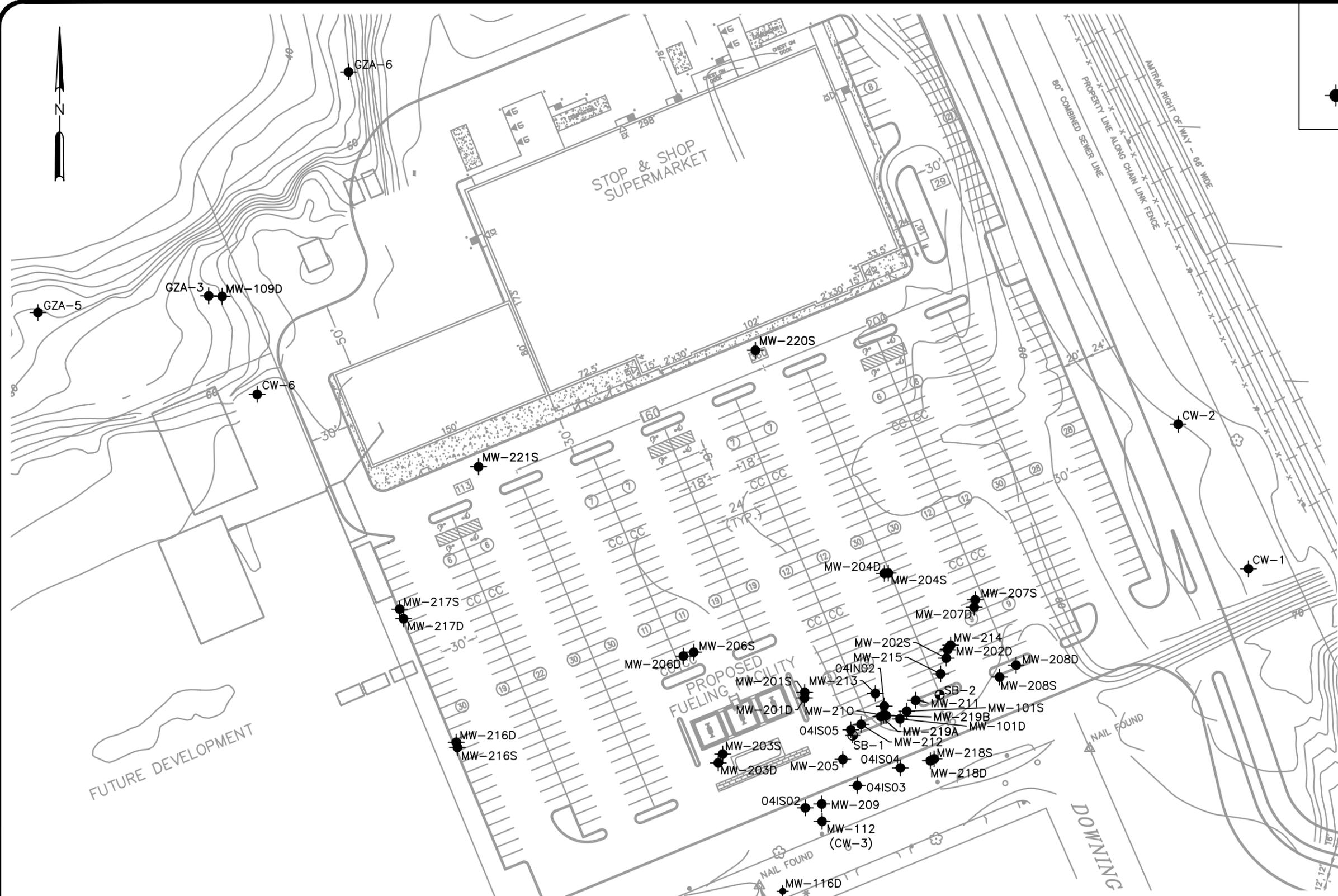
- These site specific compliance standards were taken from the approved RAWP dated April 1, 2001 and/or the RIDEM Remediation Regulations.  
 Note: The standard for Methyl tert-butyl ether is the Massachusetts Department of Environmental Protection (MassDEP) Method 1 GW-3 standard (310 CMR 40.0974 (2),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

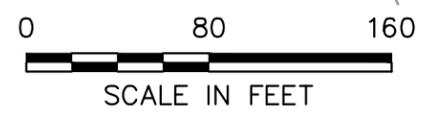
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LEGEND  
 ● MW-101S MONITORING WELL



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



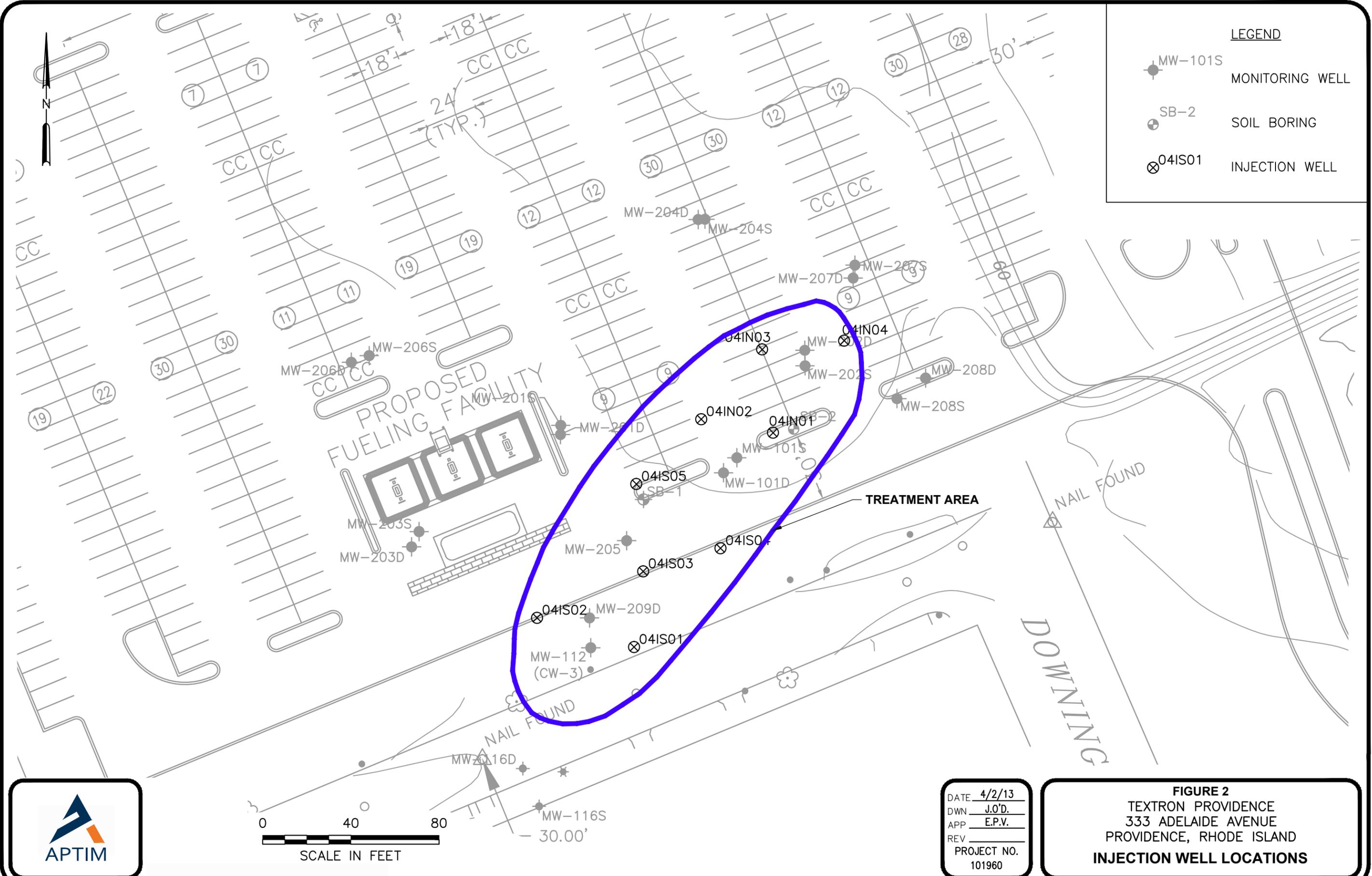
DATE	4/2/13
DWN	J.O'D.
APP	
REV	
PROJECT NO.	101960

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

LEGEND

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

File: L:\dwg\Gorham\entg-01.dwg Layout: Inj well User: chris.desiata Jan 08, 2018 - 3:37pm  
 1" 1/2" 0" 1"



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

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

**ATTACHMENT A**  
**LABORATORY REPORTS**

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August 18, 2021

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: 21H0770

Enclosed are results of analyses for samples received by the laboratory on August 16, 2021. 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: 8/18/2021

PURCHASE ORDER NUMBER: 216859

PROJECT NUMBER: 631010697

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**ANALYTICAL SUMMARY**

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WORK ORDER NUMBER: 21H0770

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-112-20210816	21H0770-01	Ground Water		SW-846 8260C-D	
MW-116D-20210816	21H0770-02	Ground Water		SW-846 8260C-D	
MW-116S-20210816	21H0770-03	Ground Water		SW-846 8260C-D	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8260C-D**

**Qualifications:**

**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**

21H0770-01[MW-112-20210816], 21H0770-02[MW-116D-20210816], 21H0770-03[MW-116S-20210816], B288365-BLK1, B288365-BS1, B288365-BSD1, S062492-CCV1

**Dichlorodifluoromethane (Freon 12)**

21H0770-01[MW-112-20210816], 21H0770-02[MW-116D-20210816], 21H0770-03[MW-116S-20210816], B288365-BLK1, B288365-BS1, B288365-BSD1, S062492-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:**

**Bromochloromethane**

B288365-BS1, B288365-BSD1, S062492-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**

21H0770-01[MW-112-20210816], 21H0770-02[MW-116D-20210816], 21H0770-03[MW-116S-20210816], B288365-BLK1, B288365-BS1, B288365-BSD1, S062492-CCV1

**Chloromethane**

21H0770-01[MW-112-20210816], 21H0770-02[MW-116D-20210816], 21H0770-03[MW-116S-20210816], B288365-BLK1, B288365-BS1, B288365-BSD1, S062492-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, R

Sample Description:

Work Order: 21H0770

Date Received: 8/16/2021

Field Sample #: MW-112-20210816

Sampled: 8/16/2021 10:00

Sample ID: 21H0770-01

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 8260C-D	8/17/21	8/17/21 12:15	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Bromomethane	ND	5.0	µg/L	1	V-34	SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 21H0770

Date Received: 8/16/2021

Field Sample #: MW-112-20210816

Sampled: 8/16/2021 10:00

Sample ID: 21H0770-01

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 8260C-D	8/17/21	8/17/21 12:15	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Tetrachloroethylene	67	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Trichloroethylene	3.7	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 12:15	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	77.2	70-130	8/17/21 12:15
Toluene-d8	93.7	70-130	8/17/21 12:15
4-Bromofluorobenzene	97.8	70-130	8/17/21 12:15

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 21H0770

Date Received: 8/16/2021

Field Sample #: MW-116D-20210816

Sampled: 8/16/2021 11:00

Sample ID: 21H0770-02

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 8260C-D	8/17/21	8/17/21 11:23	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Bromomethane	ND	5.0	µg/L	1	V-34	SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 21H0770

Date Received: 8/16/2021

Field Sample #: MW-116D-20210816

Sampled: 8/16/2021 11:00

Sample ID: 21H0770-02

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 8260C-D	8/17/21	8/17/21 11:23	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:23	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	74.8	70-130	8/17/21 11:23
Toluene-d8	94.2	70-130	8/17/21 11:23
4-Bromofluorobenzene	98.0	70-130	8/17/21 11:23

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 21H0770

Date Received: 8/16/2021

Field Sample #: MW-116S-20210816

Sampled: 8/16/2021 12:00

Sample ID: 21H0770-03

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 8260C-D	8/17/21	8/17/21 11:49	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Bromomethane	ND	5.0	µg/L	1	V-34	SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 21H0770

Date Received: 8/16/2021

Field Sample #: MW-116S-20210816

Sampled: 8/16/2021 12:00

Sample ID: 21H0770-03

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 8260C-D	8/17/21	8/17/21 11:49	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	8/17/21	8/17/21 11:49	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	75.2	70-130	8/17/21 11:49
Toluene-d8	94.1	70-130	8/17/21 11:49
4-Bromofluorobenzene	99.3	70-130	8/17/21 11:49

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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 8260C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21H0770-01 [MW-112-20210816]	B288365	5	5.00	08/17/21
21H0770-02 [MW-116D-20210816]	B288365	5	5.00	08/17/21
21H0770-03 [MW-116S-20210816]	B288365	5	5.00	08/17/21

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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
<b>Batch B288365 - SW-846 5030B</b>										
<b>Blank (B288365-BLK1)</b>										
Prepared & Analyzed: 08/17/21										
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							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							
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
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**Batch B288365 - SW-846 5030B**
**Blank (B288365-BLK1)**

Prepared &amp; Analyzed: 08/17/21

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	19.1		µg/L	25.0		76.2	70-130			
Surrogate: Toluene-d8	23.2		µg/L	25.0		92.7	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		µg/L	25.0		98.8	70-130			

**LCS (B288365-BS1)**

Prepared &amp; Analyzed: 08/17/21

Acetone	93.1	50	µg/L	100		93.1	70-160			†
Acrylonitrile	11.4	5.0	µg/L	10.0		114	70-130			
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.0		100	70-130			
Benzene	10.7	1.0	µg/L	10.0		107	70-130			
Bromobenzene	10.7	1.0	µg/L	10.0		107	70-130			
Bromochloromethane	12.8	1.0	µg/L	10.0		128	70-130			V-20
Bromodichloromethane	10.8	0.50	µg/L	10.0		108	70-130			
Bromoform	11.7	1.0	µg/L	10.0		117	70-130			
Bromomethane	13.3	2.0	µg/L	10.0		133	40-160			V-34 †
2-Butanone (MEK)	100	20	µg/L	100		100	40-160			†
tert-Butyl Alcohol (TBA)	96.4	20	µg/L	100		96.4	40-160			†
n-Butylbenzene	8.85	1.0	µg/L	10.0		88.5	70-130			
sec-Butylbenzene	8.99	1.0	µg/L	10.0		89.9	70-130			
tert-Butylbenzene	9.54	1.0	µg/L	10.0		95.4	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.2	0.50	µg/L	10.0		102	70-130			
Carbon Disulfide	101	5.0	µg/L	100		101	70-130			
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103	70-130			
Chlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
Chlorodibromomethane	11.2	0.50	µg/L	10.0		112	70-130			
Chloroethane	9.87	2.0	µg/L	10.0		98.7	70-130			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B288365 - SW-846 5030B</b>										
<b>LCS (B288365-BS1)</b>										
Prepared & Analyzed: 08/17/21										
Chloroform	10.2	2.0	µg/L	10.0		102	70-130			
Chloromethane	4.09	2.0	µg/L	10.0		40.9	40-160			V-05, V-34 †
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130			
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.71	5.0	µg/L	10.0		87.1	70-130			
1,2-Dibromoethane (EDB)	12.0	0.50	µg/L	10.0		120	70-130			
Dibromomethane	11.3	1.0	µg/L	10.0		113	70-130			
1,2-Dichlorobenzene	9.98	1.0	µg/L	10.0		99.8	70-130			
1,3-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,4-Dichlorobenzene	9.89	1.0	µg/L	10.0		98.9	70-130			
trans-1,4-Dichloro-2-butene	11.5	2.0	µg/L	10.0		115	70-130			
Dichlorodifluoromethane (Freon 12)	8.83	2.0	µg/L	10.0		88.3	40-160			V-05 †
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,1-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	70-130			
1,3-Dichloropropane	11.3	0.50	µg/L	10.0		113	70-130			
2,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	40-130			†
1,1-Dichloropropene	10.6	2.0	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130			
trans-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108	70-130			
Diethyl Ether	9.90	2.0	µg/L	10.0		99.0	70-130			
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.0		106	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	10.0	0.60	µg/L	10.0		100	70-130			
2-Hexanone (MBK)	100	10	µg/L	100		100	70-160			†
Isopropylbenzene (Cumene)	10.9	1.0	µg/L	10.0		109	70-130			
p-Isopropyltoluene (p-Cymene)	9.67	1.0	µg/L	10.0		96.7	70-130			
Methyl Acetate	10.9	1.0	µg/L	10.0		109	70-130			
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101	70-130			
Methyl Cyclohexane	11.5	1.0	µg/L	10.0		115	70-130			
Methylene Chloride	10.3	5.0	µg/L	10.0		103	70-130			
4-Methyl-2-pentanone (MIBK)	107	10	µg/L	100		107	70-160			†
Naphthalene	8.38	2.0	µg/L	10.0		83.8	40-130			†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
Styrene	11.3	1.0	µg/L	10.0		113	70-130			
1,1,1,2-Tetrachloroethane	12.2	1.0	µg/L	10.0		122	70-130			
1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.0		112	70-130			
Tetrachloroethylene	13.0	1.0	µg/L	10.0		130	70-130			
Tetrahydrofuran	10.2	10	µg/L	10.0		102	70-130			
Toluene	11.3	1.0	µg/L	10.0		113	70-130			
1,2,3-Trichlorobenzene	9.23	5.0	µg/L	10.0		92.3	70-130			
1,2,4-Trichlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130			
1,3,5-Trichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1,2-Trichloroethane	11.6	1.0	µg/L	10.0		116	70-130			
Trichloroethylene	11.6	1.0	µg/L	10.0		116	70-130			
Trichlorofluoromethane (Freon 11)	9.33	2.0	µg/L	10.0		93.3	70-130			
1,2,3-Trichloropropane	12.3	2.0	µg/L	10.0		123	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B288365 - SW-846 5030B</b>										
<b>LCS (B288365-BS1)</b>										
Prepared & Analyzed: 08/17/21										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6	1.0	µg/L	10.0		106	70-130			
1,2,4-Trimethylbenzene	9.49	1.0	µg/L	10.0		94.9	70-130			
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
Vinyl Chloride	9.98	2.0	µg/L	10.0		99.8	40-160			†
m+p Xylene	22.2	2.0	µg/L	20.0		111	70-130			
o-Xylene	10.7	1.0	µg/L	10.0		107	70-130			
Xylenes (total)	32.9	1.0	µg/L	30.0		110	0-200			
Surrogate: 1,2-Dichloroethane-d4	18.8		µg/L	25.0		75.0	70-130			
Surrogate: Toluene-d8	23.8		µg/L	25.0		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		99.9	70-130			
<b>LCS Dup (B288365-BS1)</b>										
Prepared & Analyzed: 08/17/21										
Acetone	94.6	50	µg/L	100		94.6	70-160	1.66	25	†
Acrylonitrile	11.5	5.0	µg/L	10.0		115	70-130	0.524	25	
tert-Amyl Methyl Ether (TAME)	9.97	0.50	µg/L	10.0		99.7	70-130	0.600	25	
Benzene	10.7	1.0	µg/L	10.0		107	70-130	0.281	25	
Bromobenzene	10.3	1.0	µg/L	10.0		103	70-130	3.80	25	
Bromochloromethane	12.7	1.0	µg/L	10.0		127	70-130	0.862	25	V-20
Bromodichloromethane	10.5	0.50	µg/L	10.0		105	70-130	2.54	25	
Bromoform	11.4	1.0	µg/L	10.0		114	70-130	2.25	25	
Bromomethane	13.6	2.0	µg/L	10.0		136	40-160	1.71	25	V-34 †
2-Butanone (MEK)	100	20	µg/L	100		100	40-160	0.150	25	†
tert-Butyl Alcohol (TBA)	97.5	20	µg/L	100		97.5	40-160	1.13	25	†
n-Butylbenzene	8.74	1.0	µg/L	10.0		87.4	70-130	1.25	25	
sec-Butylbenzene	9.00	1.0	µg/L	10.0		90.0	70-130	0.111	25	
tert-Butylbenzene	9.42	1.0	µg/L	10.0		94.2	70-130	1.27	25	
tert-Butyl Ethyl Ether (TBEE)	10.6	0.50	µg/L	10.0		106	70-130	3.93	25	
Carbon Disulfide	100	5.0	µg/L	100		100	70-130	1.03	25	
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130	1.67	25	
Chlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	1.69	25	
Chlorodibromomethane	11.1	0.50	µg/L	10.0		111	70-130	0.538	25	
Chloroethane	9.53	2.0	µg/L	10.0		95.3	70-130	3.51	25	
Chloroform	10.2	2.0	µg/L	10.0		102	70-130	0.0977	25	
Chloromethane	4.08	2.0	µg/L	10.0		40.8	40-160	0.245	25	V-05, V-34 †
2-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130	0.664	25	
4-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130	1.42	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.55	5.0	µg/L	10.0		85.5	70-130	1.85	25	
1,2-Dibromoethane (EDB)	11.7	0.50	µg/L	10.0		117	70-130	2.11	25	
Dibromomethane	11.5	1.0	µg/L	10.0		115	70-130	1.58	25	
1,2-Dichlorobenzene	9.82	1.0	µg/L	10.0		98.2	70-130	1.62	25	
1,3-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130	0.199	25	
1,4-Dichlorobenzene	9.86	1.0	µg/L	10.0		98.6	70-130	0.304	25	
trans-1,4-Dichloro-2-butene	11.4	2.0	µg/L	10.0		114	70-130	0.524	25	
Dichlorodifluoromethane (Freon 12)	8.54	2.0	µg/L	10.0		85.4	40-160	3.34	25	V-05 †
1,1-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130	0.0939	25	
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130	0.0959	25	
1,1-Dichloroethylene	9.84	1.0	µg/L	10.0		98.4	70-130	2.81	25	
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	1.50	25	
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	0.626	25	
1,2-Dichloropropane	11.7	1.0	µg/L	10.0		117	70-130	0.686	25	
1,3-Dichloropropane	11.3	0.50	µg/L	10.0		113	70-130	0.531	25	
2,2-Dichloropropane	9.58	1.0	µg/L	10.0		95.8	40-130	5.09	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
<b>Batch B288365 - SW-846 5030B</b>										
<b>LCS Dup (B288365-BSD1)</b>										
Prepared & Analyzed: 08/17/21										
1,1-Dichloropropene	10.5	2.0	µg/L	10.0		105	70-130	0.761	25	
cis-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113	70-130	1.07	25	
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130	1.40	25	
Diethyl Ether	10.4	2.0	µg/L	10.0		104	70-130	5.02	25	
Diisopropyl Ether (DIPE)	10.4	0.50	µg/L	10.0		104	70-130	1.90	25	
1,4-Dioxane	112	50	µg/L	100		112	40-130	5.20	50	† ‡
Ethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	0.0926	25	
Hexachlorobutadiene	9.70	0.60	µg/L	10.0		97.0	70-130	3.25	25	
2-Hexanone (MBK)	101	10	µg/L	100		101	70-160	0.229	25	†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106	70-130	2.32	25	
p-Isopropyltoluene (p-Cymene)	9.50	1.0	µg/L	10.0		95.0	70-130	1.77	25	
Methyl Acetate	11.6	1.0	µg/L	10.0		116	70-130	5.52	25	
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102	70-130	1.48	25	
Methyl Cyclohexane	11.0	1.0	µg/L	10.0		110	70-130	4.35	25	
Methylene Chloride	10.2	5.0	µg/L	10.0		102	70-130	0.390	25	
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100		105	70-160	1.19	25	†
Naphthalene	8.44	2.0	µg/L	10.0		84.4	40-130	0.713	25	†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130	0.866	25	
Styrene	11.3	1.0	µg/L	10.0		113	70-130	0.531	25	
1,1,1,2-Tetrachloroethane	12.0	1.0	µg/L	10.0		120	70-130	2.15	25	
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.0		109	70-130	2.08	25	
Tetrachloroethylene	12.5	1.0	µg/L	10.0		125	70-130	3.61	25	
Tetrahydrofuran	10.1	10	µg/L	10.0		101	70-130	1.09	25	
Toluene	11.2	1.0	µg/L	10.0		112	70-130	1.06	25	
1,2,3-Trichlorobenzene	9.22	5.0	µg/L	10.0		92.2	70-130	0.108	25	
1,2,4-Trichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	2.99	25	
1,3,5-Trichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	1.27	25	
1,1,1-Trichloroethane	9.80	1.0	µg/L	10.0		98.0	70-130	4.20	25	
1,1,2-Trichloroethane	11.8	1.0	µg/L	10.0		118	70-130	1.72	25	
Trichloroethylene	11.6	1.0	µg/L	10.0		116	70-130	0.173	25	
Trichlorofluoromethane (Freon 11)	9.39	2.0	µg/L	10.0		93.9	70-130	0.641	25	
1,2,3-Trichloropropane	11.6	2.0	µg/L	10.0		116	70-130	6.19	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	1.0	µg/L	10.0		102	70-130	2.88	25	
1,2,4-Trimethylbenzene	9.43	1.0	µg/L	10.0		94.3	70-130	0.634	25	
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	1.47	25	
Vinyl Chloride	9.65	2.0	µg/L	10.0		96.5	40-160	3.36	25	†
m+p Xylene	22.0	2.0	µg/L	20.0		110	70-130	0.995	25	
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130	1.04	25	
Xylenes (total)	32.6	1.0	µg/L	30.0		108	0-200	1.01		
Surrogate: 1,2-Dichloroethane-d4	19.4		µg/L	25.0		77.8	70-130			
Surrogate: Toluene-d8	23.7		µg/L	25.0		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.0	70-130			

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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
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 8260C-D 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 8260C-D 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	03/1/2022
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	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
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	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
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	09/6/2021

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com



Company Name: Aptim Environmental & Infrastructure, Inc.  
Address: 150 Royall Street, Canton, MA 02021  
Phone: 617-794-1767  
Project Name: Textron Providence  
Project Location: 333 Adelaide Avenue, Providence, RI  
Project Number: 631010697  
Project Manager: Catherine Joe  
Con-Test Bid: PO ~~216859~~ 216859  
Invoice Recipient: Catherine Joe  
Sampled By: DANIEL D. LEMAY 617-212-8276

Requested Turnaround Time  
 7-Day  10-Day  STANDARD  
 Other: STANDARD

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

Data Delivery  
 Format: PDF  EXCEL   
 Other:  Equis format

Enhanced Data Package Required:

Email To: catherine.joe@aptim.com  
 Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date / Time	Ending Date / Time	Composite	Grab	Matrix Code	Conc Code
1	MW-112-20210816 MW-112	8/16/21	1000	G	G	GW	U
2	MW-116D-20210816 MW-116D	8/16/21	1100	G	G	GW	U
3	MW-116S-20210816 MW-116S	8/16/21	1200	G	G	GW	U

Comments: GIS Key to Catherine.joe@aptim.com

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

Relinquished by: (signature)	Date/Time	Relinquished by: (signature)	Date/Time
<i>[Signature]</i>	8/16/21 1305	<i>[Signature]</i>	8/16/21 1305
<i>[Signature]</i>	8-16-21 1305	<i>[Signature]</i>	8-16-21 1305
<i>[Signature]</i>	8-16-21 1420	<i>[Signature]</i>	8-16-21 1420
<i>[Signature]</i>	8/16/21	<i>[Signature]</i>	8/16/21
<i>[Signature]</i>	8/16/21 1715	<i>[Signature]</i>	8/16/21 1715
<i>[Signature]</i>	8/16/21	<i>[Signature]</i>	8/16/21

Detection Limit Requirements

MA

CT

Other:

Program Information

MCP Analytical Certification Form Required  
 RCP Analysis Certification Form Required  
 MA State DW Form Required

PWSID # \_\_\_\_\_

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.  
 PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

# of Containers: 3  
 Preservation Code: H  
 Container Code: V

ANALYSIS REQUESTED

EPA 8260C (VOCs)

3

- 1 Matrix Codes:**  
 GW = Ground Water  
 WW = Waste Water  
 DW = Drinking Water  
 A = Air  
 S = Soil/Solid  
 SL = Sludge  
 O = Other (please define)
- 2 Preservation Codes:**  
 I = Iced  
 H = HCL  
 M = Methanol  
 N = Nitric Acid  
 S = Sulfuric Acid  
 B = Sodium Bisulfate  
 X = Sodium Hydroxide  
 T = Sodium Thiosulfate  
 O = Other (please define)
- 3 Container Codes:**  
 A = Amber Glass  
 G = Glass  
 P = Plastic  
 ST = Sterile  
 V = Vial  
 S = Summa Canister  
 T = Tedlar Bag  
 O = Other (please define)

Field Filtered   
 Lab to Filter

Field Filtered   
 Lab to Filter

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 Aptem  
 Received By [Signature] Date 8/16/21 Time 1:55  
 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 # 3 Actual Temp -3.6  
 By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_  
 Was Custody Seal Intact? n/a Were Samples Tampered with? n/a  
 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? Acid n/a Base n/a

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	<u>9</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:

December 3, 2021

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: 21K1800

Enclosed are results of analyses for samples as received by the laboratory on November 30, 2021. 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: 12/3/2021

PURCHASE ORDER NUMBER: 216859

PROJECT NUMBER: 631010697

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 21K1800

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
CW-01-20211129	21K1800-01	Ground Water		SW-846 8260D	
CW-02-20211129	21K1800-02	Ground Water		SW-846 8260D	
CW-06-20211129	21K1800-03	Ground Water		SW-846 8100 Modified	
CW-06-20211129FD	21K1800-04	Ground Water		SW-846 8100 Modified	
TB-1-20211129	21K1800-05	Ground Water		SW-846 8260D	
MW-109D-20211129	21K1800-06	Ground Water		SW-846 6020B	
				SW-846 8260D	
GZA-3-20211129	21K1800-07	Ground Water		SW-846 6020B	
				SW-846 8260D	
GZA-3-20211129 FD	21K1800-08	Ground Water		SW-846 6020B	
MW-207S-20211129	21K1800-09	Ground Water		SW-846 8260D	
MW-207D-20211129	21K1800-10	Ground Water		SW-846 8260D	
MW-202S-20211129	21K1800-11	Ground Water		SW-846 8260D	
MW-202D-20211129	21K1800-12	Ground Water		SW-846 8260D	
MW-101S-20211129	21K1800-13	Ground Water		SW-846 8260D	
MW-101S-20211129FD	21K1800-14	Ground Water		SW-846 8260D	
MW-101D-20211129	21K1800-15	Ground Water		SW-846 8260D	
MW-201D-20211129	21K1800-16	Ground Water		SW-846 8260D	
MW-216D-20211130	21K1800-17	Ground Water		SW-846 8260D	
MW-216S-20211130	21K1800-18	Ground Water		SW-846 8260D	
MW-217D-20211130	21K1800-19	Ground Water		SW-846 8260D	
MW-217S-20211130	21K1800-20	Ground Water		SW-846 8260D	
MW-112-20211130	21K1800-21	Ground Water		SW-846 8260D	
MW-209D-20211130	21K1800-22	Ground Water		SW-846 8260D	
MW-218D-20211130	21K1800-23	Ground Water		SW-846 8260D	
MW-218S-20211130	21K1800-24	Ground Water		SW-846 8260D	
MW-116D-20211130	21K1800-25	Ground Water		SW-846 8260D	
MW-116S-20211130	21K1800-26	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 8260D

**Qualifications:**

---

**DL-01**

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

**Analyte & Samples(s) Qualified:**

21K1800-20[MW-217S-20211130]

---

**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:**

**1,2,3-Trichlorobenzene**

B295842-BS1

**1,2,4-Trichlorobenzene**

B295842-BS1, B295901-BSD1

**Chloroethane**

B295901-BS1

---

**RL-11**

Elevated reporting limit due to high concentration of target compounds.

**Analyte & Samples(s) Qualified:**

21K1800-01[CW-01-20211129], 21K1800-13[MW-101S-20211129], 21K1800-14[MW-101S-20211129FD], 21K1800-16[MW-201D-20211129],  
21K1800-21[MW-112-20211130], 21K1800-22[MW-209D-20211130], 21K1800-23[MW-218D-20211130]

---

**RL-12**

Elevated reporting limit due to matrix interference.

**Analyte & Samples(s) Qualified:**

21K1800-18[MW-216S-20211130]

**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**

21K1800-01[CW-01-20211129], 21K1800-02[CW-02-20211129], 21K1800-05[TB-1-20211129], 21K1800-06[MW-109D-20211129], 21K1800-07[GZA-3-20211129], 21K1800-09[MW-207S-20211129], 21K1800-10[MW-207D-20211129], 21K1800-11[MW-202S-20211129], 21K1800-12[MW-202D-20211129], 21K1800-13[MW-101S-20211129], 21K1800-14[MW-101S-20211129FD], 21K1800-15[MW-101D-20211129], 21K1800-16[MW-201D-20211129], 21K1800-17[MW-216D-20211130], 21K1800-18[MW-216S-20211130], 21K1800-19[MW-217D-20211130], 21K1800-20[MW-217S-20211130], 21K1800-21[MW-112-20211130], 21K1800-22[MW-209D-20211130], 21K1800-23[MW-218D-20211130], 21K1800-24[MW-218S-20211130], 21K1800-25[MW-116D-20211130], 21K1800-26[MW-116S-20211130], B295842-BLK1, B295842-BS1, B295842-BSD1, B295843-BLK1, B295843-BS1, B295843-BSD1, B295901-BLK1, B295901-BS1, B295901-BSD1, S065930-CCV1, S065932-CCV1, S065969-CCV1

**1,2,4-Trichlorobenzene**

21K1800-01[CW-01-20211129], 21K1800-02[CW-02-20211129], 21K1800-05[TB-1-20211129], 21K1800-06[MW-109D-20211129], 21K1800-07[GZA-3-20211129], 21K1800-09[MW-207S-20211129], 21K1800-10[MW-207D-20211129], 21K1800-11[MW-202S-20211129], 21K1800-13[MW-101S-20211129], 21K1800-14[MW-101S-20211129FD], B295842-BLK1, B295842-BS1, B295842-BSD1, B295901-BLK1, B295901-BS1, B295901-BSD1, S065930-CCV1, S065969-CCV1

**1,4-Dioxane**

21K1800-01[CW-01-20211129], 21K1800-02[CW-02-20211129], 21K1800-05[TB-1-20211129], 21K1800-06[MW-109D-20211129], 21K1800-07[GZA-3-20211129], 21K1800-09[MW-207S-20211129], 21K1800-10[MW-207D-20211129], 21K1800-11[MW-202S-20211129], B295842-BLK1, B295842-BS1, B295842-BSD1, S065930-CCV1

**2-Hexanone (MBK)**

21K1800-01[CW-01-20211129], 21K1800-02[CW-02-20211129], 21K1800-05[TB-1-20211129], 21K1800-06[MW-109D-20211129], 21K1800-07[GZA-3-20211129], 21K1800-09[MW-207S-20211129], 21K1800-10[MW-207D-20211129], 21K1800-11[MW-202S-20211129], B295842-BLK1, B295842-BS1, B295842-BSD1, S065930-CCV1

**Bromomethane**

21K1800-12[MW-202D-20211129], 21K1800-15[MW-101D-20211129], 21K1800-16[MW-201D-20211129], 21K1800-17[MW-216D-20211130], 21K1800-18[MW-216S-20211130], 21K1800-19[MW-217D-20211130], 21K1800-20[MW-217S-20211130], 21K1800-21[MW-112-20211130], 21K1800-22[MW-209D-20211130], 21K1800-23[MW-218D-20211130], 21K1800-24[MW-218S-20211130], 21K1800-25[MW-116D-20211130], 21K1800-26[MW-116S-20211130], B295843-BLK1, B295843-BS1, B295843-BSD1, S065932-CCV1

**Naphthalene**

21K1800-01[CW-01-20211129], 21K1800-02[CW-02-20211129], 21K1800-05[TB-1-20211129], 21K1800-06[MW-109D-20211129], 21K1800-07[GZA-3-20211129], 21K1800-09[MW-207S-20211129], 21K1800-10[MW-207D-20211129], 21K1800-11[MW-202S-20211129], 21K1800-13[MW-101S-20211129], 21K1800-14[MW-101S-20211129FD], B295842-BLK1, B295842-BS1, B295842-BSD1, B295901-BLK1, B295901-BS1, B295901-BSD1, S065930-CCV1, S065969-CCV1

**tert-Butyl Alcohol (TBA)**

21K1800-01[CW-01-20211129], 21K1800-02[CW-02-20211129], 21K1800-05[TB-1-20211129], 21K1800-06[MW-109D-20211129], 21K1800-07[GZA-3-20211129], 21K1800-09[MW-207S-20211129], 21K1800-10[MW-207D-20211129], 21K1800-11[MW-202S-20211129], B295842-BLK1, B295842-BS1, B295842-BSD1, S065930-CCV1

**Vinyl Chloride**

21K1800-12[MW-202D-20211129], 21K1800-15[MW-101D-20211129], 21K1800-16[MW-201D-20211129], 21K1800-17[MW-216D-20211130], 21K1800-18[MW-216S-20211130], 21K1800-19[MW-217D-20211130], 21K1800-20[MW-217S-20211130], 21K1800-21[MW-112-20211130], 21K1800-22[MW-209D-20211130], 21K1800-23[MW-218D-20211130], 21K1800-24[MW-218S-20211130], 21K1800-25[MW-116D-20211130], 21K1800-26[MW-116S-20211130], B295843-BLK1, B295843-BS1, B295843-BSD1, S065932-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:****Bromochloromethane**

B295843-BS1, B295843-BSD1, S065932-CCV1

**Bromomethane**

B295842-BS1, B295842-BSD1, B295901-BS1, B295901-BSD1, S065930-CCV1, S065969-CCV1

**Chloroethane**

B295901-BS1, B295901-BSD1, S065969-CCV1

**Chloromethane**

B295901-BS1, B295901-BSD1, S065969-CCV1

**SW-846 8100 Modified**

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

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: 21K1800

Date Received: 11/30/2021

Field Sample #: CW-01-20211129

Sampled: 11/29/2021 07:30

Sample ID: 21K1800-01

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Acrylonitrile	ND	25	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Benzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Bromoform	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Bromomethane	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5	V-05	SW-846 8260D	12/1/21	12/1/21 19:28	MFF
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Carbon Disulfide	ND	25	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Chloroethane	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Chloroform	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Chloromethane	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,1-Dichloroethylene	8.6	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
cis-1,2-Dichloroethylene	46	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
trans-1,2-Dichloroethylene	8.4	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Diethyl Ether	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF

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: 21K1800

Date Received: 11/30/2021

Field Sample #: CW-01-20211129

Sampled: 11/29/2021 07:30

Sample ID: 21K1800-01

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,4-Dioxane	ND	250	µg/L	5	V-05	SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Hexachlorobutadiene	ND	3.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
2-Hexanone (MBK)	ND	50	µg/L	5	V-05	SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Methyl Acetate	19	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Methylene Chloride	ND	25	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Naphthalene	ND	10	µg/L	5	V-05	SW-846 8260D	12/1/21	12/1/21 19:28	MFF
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Styrene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Tetrachloroethylene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Toluene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,2,3-Trichlorobenzene	ND	25	µg/L	5	V-05	SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5	V-05	SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Trichloroethylene	700	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
m+p Xylene	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
o-Xylene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF
Xylenes (total)	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 19:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	12/1/21 19:28
Toluene-d8	103	70-130	12/1/21 19:28
4-Bromofluorobenzene	100	70-130	12/1/21 19:28

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: 21K1800

Date Received: 11/30/2021

Field Sample #: CW-02-20211129

Sampled: 11/29/2021 08:00

Sample ID: 21K1800-02

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	12/1/21	12/1/21 17:04	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:04	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF

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: 21K1800

Date Received: 11/30/2021

Field Sample #: CW-02-20211129

Sampled: 11/29/2021 08:00

Sample ID: 21K1800-02

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	12/1/21	12/1/21 17:04	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
2-Hexanone (MBK)	ND	10	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Methyl tert-Butyl Ether (MTBE)	1.6	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:04	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	12/1/21 17:04
Toluene-d8	104	70-130	12/1/21 17:04
4-Bromofluorobenzene	99.1	70-130	12/1/21 17:04

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: 21K1800

Date Received: 11/30/2021

Field Sample #: CW-06-20211129

Sampled: 11/29/2021 09:00

Sample ID: 21K1800-03

Sample Matrix: Ground Water

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	7.7	0.19	mg/L	1		SW-846 8100 Modified	12/1/21	12/2/21 22:58	SFM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	76.8		40-140					12/2/21 22:58	

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: 21K1800

Date Received: 11/30/2021

Field Sample #: CW-06-20211129FD

Sampled: 11/29/2021 09:00

Sample ID: 21K1800-04

Sample Matrix: Ground Water

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	7.2	0.18	mg/L	1		SW-846 8100 Modified	12/1/21	12/2/21 22:38	SFM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	72.0		40-140					12/2/21 22:38	

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: 21K1800

Date Received: 11/30/2021

Field Sample #: TB-1-20211129

Sampled: 11/29/2021 00:00

Sample ID: 21K1800-05

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	12/1/21	12/1/21 11:28	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 11:28	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF

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: 21K1800

Date Received: 11/30/2021

Field Sample #: TB-1-20211129

Sampled: 11/29/2021 00:00

Sample ID: 21K1800-05

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	12/1/21	12/1/21 11:28	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
2-Hexanone (MBK)	ND	10	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 11:28	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 11:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	12/1/21 11:28
Toluene-d8	106	70-130	12/1/21 11:28
4-Bromofluorobenzene	99.0	70-130	12/1/21 11:28

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-109D-20211129

Sampled: 11/29/2021 09:45

Sample ID: 21K1800-06

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	12/1/21	12/1/21 17:28	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:28	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-109D-20211129

Sampled: 11/29/2021 09:45

Sample ID: 21K1800-06

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	12/1/21	12/1/21 17:28	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
2-Hexanone (MBK)	ND	10	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:28	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	12/1/21 17:28
Toluene-d8	102	70-130	12/1/21 17:28
4-Bromofluorobenzene	100	70-130	12/1/21 17:28

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-109D-20211129

Sampled: 11/29/2021 09:45

Sample ID: 21K1800-06

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	12/1/21	12/2/21 17:20	QNW

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: 21K1800

Date Received: 11/30/2021

Field Sample #: GZA-3-20211129

Sampled: 11/29/2021 10:30

Sample ID: 21K1800-07

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:52	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF

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: 21K1800

Date Received: 11/30/2021

Field Sample #: GZA-3-20211129

Sampled: 11/29/2021 10:30

Sample ID: 21K1800-07

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
2-Hexanone (MBK)	ND	10	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:52	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Vinyl Chloride	6.4	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 17:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	12/1/21 17:52
Toluene-d8	104	70-130	12/1/21 17:52
4-Bromofluorobenzene	106	70-130	12/1/21 17:52

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: 21K1800

Date Received: 11/30/2021

Field Sample #: GZA-3-20211129

Sampled: 11/29/2021 10:30

Sample ID: 21K1800-07

Sample Matrix: Ground Water

**Metals Analyses (Dissolved)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	58	0.50	µg/L	1		SW-846 6020B	12/1/21	12/2/21 17:24	QNW

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: 21K1800

Date Received: 11/30/2021

**Field Sample #: GZA-3-20211129 FD**

Sampled: 11/29/2021 10:30

**Sample ID: 21K1800-08**

Sample Matrix: Ground Water

**Metals Analyses (Dissolved)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	51	0.50	µg/L	1		SW-846 6020B	12/1/21	12/2/21 17:27	QNW

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-207S-20211129

Sampled: 11/29/2021 14:00

Sample ID: 21K1800-09

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	12/1/21	12/1/21 18:16	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:16	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-207S-20211129

Sampled: 11/29/2021 14:00

Sample ID: 21K1800-09

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	12/1/21	12/1/21 18:16	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
2-Hexanone (MBK)	ND	10	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:16	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Tetrachloroethylene	2.4	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:16	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	12/1/21 18:16
Toluene-d8	104	70-130	12/1/21 18:16
4-Bromofluorobenzene	99.8	70-130	12/1/21 18:16

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-207D-20211129

Sampled: 11/29/2021 14:30

Sample ID: 21K1800-10

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	12/1/21	12/1/21 18:40	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:40	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-207D-20211129

Sampled: 11/29/2021 14:30

Sample ID: 21K1800-10

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	12/1/21	12/1/21 18:40	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
2-Hexanone (MBK)	ND	10	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:40	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Tetrachloroethylene	3.3	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:40	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	104	70-130						12/1/21 18:40	
Toluene-d8	104	70-130						12/1/21 18:40	
4-Bromofluorobenzene	102	70-130						12/1/21 18:40	

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-202S-20211129

Sampled: 11/29/2021 15:00

Sample ID: 21K1800-11

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	12/1/21	12/1/21 19:04	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 19:04	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-202S-20211129

Sampled: 11/29/2021 15:00

Sample ID: 21K1800-11

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	12/1/21	12/1/21 19:04	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
2-Hexanone (MBK)	ND	10	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 19:04	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Tetrachloroethylene	12	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 19:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	12/1/21 19:04
Toluene-d8	102	70-130	12/1/21 19:04
4-Bromofluorobenzene	97.0	70-130	12/1/21 19:04

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-202D-20211129

Sampled: 11/29/2021 15:30

Sample ID: 21K1800-12

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	12/1/21	12/1/21 14:23	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 14:23	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-202D-20211129

Sampled: 11/29/2021 15:30

Sample ID: 21K1800-12

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	12/1/21	12/1/21 14:23	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Tetrachloroethylene	12	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Vinyl Chloride	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 14:23	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	12/1/21 14:23
Toluene-d8	102	70-130	12/1/21 14:23
4-Bromofluorobenzene	97.8	70-130	12/1/21 14:23

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-101S-20211129

Sampled: 11/29/2021 12:30

Sample ID: 21K1800-13

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Acrylonitrile	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Benzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Bromoform	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Bromomethane	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Chloroethane	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Chloroform	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Chloromethane	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
cis-1,2-Dichloroethylene	240	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-101S-20211129

Sampled: 11/29/2021 12:30

Sample ID: 21K1800-13

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Methylene Chloride	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Naphthalene	ND	4.0	µg/L	2	V-05	SW-846 8260D	12/1/21	12/2/21 15:33	MFF
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Styrene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Tetrachloroethylene	120	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Toluene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,2,3-Trichlorobenzene	ND	10	µg/L	2	V-05	SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2	V-05	SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Trichloroethylene	14	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
o-Xylene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF
Xylenes (total)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/2/21 15:33	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	12/2/21 15:33
Toluene-d8	104	70-130	12/2/21 15:33
4-Bromofluorobenzene	98.9	70-130	12/2/21 15:33

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-101S-20211129FD

Sampled: 11/29/2021 12:30

Sample ID: 21K1800-14

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Acrylonitrile	ND	10	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Benzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Bromoform	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Bromomethane	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Chloroethane	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Chloroform	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Chloromethane	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
cis-1,2-Dichloroethylene	230	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-101S-20211129FD

Sampled: 11/29/2021 12:30

Sample ID: 21K1800-14

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Methylene Chloride	ND	10	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Naphthalene	ND	4.0	µg/L	2	V-05	SW-846 8260D	12/2/21	12/2/21 15:57	MFF
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Styrene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Tetrachloroethylene	120	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Toluene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,2,3-Trichlorobenzene	ND	10	µg/L	2	V-05	SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2	V-05	SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Trichloroethylene	13	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
o-Xylene	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF
Xylenes (total)	ND	2.0	µg/L	2		SW-846 8260D	12/2/21	12/2/21 15:57	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	12/2/21 15:57
Toluene-d8	105	70-130	12/2/21 15:57
4-Bromofluorobenzene	103	70-130	12/2/21 15:57

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-101D-20211129

Sampled: 11/29/2021 13:00

Sample ID: 21K1800-15

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	12/1/21	12/1/21 14:50	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 14:50	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-101D-20211129

Sampled: 11/29/2021 13:00

Sample ID: 21K1800-15

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	12/1/21	12/1/21 14:50	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Tetrachloroethylene	1.8	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Vinyl Chloride	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 14:50	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 14:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	12/1/21 14:50
Toluene-d8	101	70-130	12/1/21 14:50
4-Bromofluorobenzene	98.0	70-130	12/1/21 14:50

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-201D-20211129

Sampled: 11/29/2021 13:30

Sample ID: 21K1800-16

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1200	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Acrylonitrile	ND	120	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
tert-Amyl Methyl Ether (TAME)	ND	12	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Benzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Bromobenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Bromochloromethane	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Bromodichloromethane	ND	12	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Bromoform	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Bromomethane	ND	50	µg/L	25	V-05	SW-846 8260D	12/1/21	12/1/21 19:21	EEH
2-Butanone (MEK)	ND	500	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
tert-Butyl Alcohol (TBA)	ND	500	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
n-Butylbenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
sec-Butylbenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
tert-Butylbenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	12	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Carbon Disulfide	ND	120	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Carbon Tetrachloride	ND	120	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Chlorobenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Chlorodibromomethane	ND	12	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Chloroethane	ND	50	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Chloroform	ND	50	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Chloromethane	ND	50	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
2-Chlorotoluene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
4-Chlorotoluene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	120	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,2-Dibromoethane (EDB)	ND	12	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Dibromomethane	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,2-Dichlorobenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,3-Dichlorobenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,4-Dichlorobenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
trans-1,4-Dichloro-2-butene	ND	50	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Dichlorodifluoromethane (Freon 12)	ND	50	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,1-Dichloroethane	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,2-Dichloroethane	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,1-Dichloroethylene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
cis-1,2-Dichloroethylene	46	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
trans-1,2-Dichloroethylene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,2-Dichloropropane	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,3-Dichloropropane	ND	12	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
2,2-Dichloropropane	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,1-Dichloropropene	ND	50	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
cis-1,3-Dichloropropene	ND	12	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
trans-1,3-Dichloropropene	ND	12	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Diethyl Ether	ND	50	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-201D-20211129

Sampled: 11/29/2021 13:30

Sample ID: 21K1800-16

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	12	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,4-Dioxane	ND	1200	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Ethylbenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Hexachlorobutadiene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
2-Hexanone (MBK)	ND	250	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Isopropylbenzene (Cumene)	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
p-Isopropyltoluene (p-Cymene)	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Methyl Acetate	49	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Methyl tert-Butyl Ether (MTBE)	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Methyl Cyclohexane	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Methylene Chloride	ND	120	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
4-Methyl-2-pentanone (MIBK)	ND	250	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Naphthalene	ND	50	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
n-Propylbenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Styrene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,1,1,2-Tetrachloroethane	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,1,2,2-Tetrachloroethane	ND	12	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Tetrachloroethylene	3900	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Tetrahydrofuran	ND	250	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Toluene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,2,3-Trichlorobenzene	ND	120	µg/L	25	V-05	SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,2,4-Trichlorobenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,3,5-Trichlorobenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,1,1-Trichloroethane	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,1,2-Trichloroethane	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Trichloroethylene	800	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Trichlorofluoromethane (Freon 11)	ND	50	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,2,3-Trichloropropane	ND	50	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,2,4-Trimethylbenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
1,3,5-Trimethylbenzene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Vinyl Chloride	ND	50	µg/L	25	V-05	SW-846 8260D	12/1/21	12/1/21 19:21	EEH
m+p Xylene	ND	50	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
o-Xylene	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH
Xylenes (total)	ND	25	µg/L	25		SW-846 8260D	12/1/21	12/1/21 19:21	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	12/1/21 19:21
Toluene-d8	103	70-130	12/1/21 19:21
4-Bromofluorobenzene	98.5	70-130	12/1/21 19:21

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-216D-20211130

Sampled: 11/30/2021 07:00

Sample ID: 21K1800-17

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	12/1/21	12/1/21 15:17	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 15:17	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-216D-20211130

Sampled: 11/30/2021 07:00

Sample ID: 21K1800-17

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	12/1/21	12/1/21 15:17	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Trichloroethylene	1.1	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Vinyl Chloride	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 15:17	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	12/1/21 15:17
Toluene-d8	102	70-130	12/1/21 15:17
4-Bromofluorobenzene	98.5	70-130	12/1/21 15:17

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-216S-20211130

Sampled: 11/30/2021 07:30

Sample ID: 21K1800-18

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	250	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Acrylonitrile	ND	25	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Benzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Bromoform	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Bromomethane	ND	10	µg/L	5	V-05	SW-846 8260D	12/1/21	12/1/21 17:33	EEH
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Carbon Disulfide	ND	25	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Chloroethane	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Chloroform	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Chloromethane	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
cis-1,2-Dichloroethylene	32	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Diethyl Ether	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-216S-20211130

Sampled: 11/30/2021 07:30

Sample ID: 21K1800-18

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	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,4-Dioxane	ND	250	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Hexachlorobutadiene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Methyl Acetate	19	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Methylene Chloride	ND	25	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Naphthalene	17	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Styrene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Tetrachloroethylene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Toluene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,2,3-Trichlorobenzene	ND	25	µg/L	5	V-05	SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Trichloroethylene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,2,4-Trimethylbenzene	11	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Vinyl Chloride	ND	10	µg/L	5	V-05	SW-846 8260D	12/1/21	12/1/21 17:33	EEH
m+p Xylene	ND	10	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
o-Xylene	8.3	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH
Xylenes (total)	8.3	5.0	µg/L	5		SW-846 8260D	12/1/21	12/1/21 17:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	12/1/21 17:33
Toluene-d8	103	70-130	12/1/21 17:33
4-Bromofluorobenzene	98.2	70-130	12/1/21 17:33

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-217D-20211130

Sampled: 11/30/2021 08:00

Sample ID: 21K1800-19

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 15:44	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
cis-1,2-Dichloroethylene	7.0	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-217D-20211130

Sampled: 11/30/2021 08:00

Sample ID: 21K1800-19

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Trichloroethylene	7.7	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Vinyl Chloride	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 15:44	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 15:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	12/1/21 15:44
Toluene-d8	103	70-130	12/1/21 15:44
4-Bromofluorobenzene	98.1	70-130	12/1/21 15:44

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-217S-20211130

Sampled: 11/30/2021 08:30

Sample ID: 21K1800-20

Sample Matrix: Ground Water

Sample Flags: DL-01

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Acrylonitrile	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Bromoform	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Bromomethane	ND	4.0	µg/L	2	V-05	SW-846 8260D	12/1/21	12/1/21 17:06	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Chloromethane	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
cis-1,2-Dichloroethylene	2.5	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-217S-20211130

Sampled: 11/30/2021 08:30

Sample ID: 21K1800-20

Sample Matrix: Ground Water

Sample Flags: DL-01

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Hexachlorobutadiene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Naphthalene	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2	V-05	SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Trichloroethylene	3.1	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Vinyl Chloride	ND	4.0	µg/L	2	V-05	SW-846 8260D	12/1/21	12/1/21 17:06	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
o-Xylene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH
Xylenes (total)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 17:06	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	12/1/21 17:06
Toluene-d8	101	70-130	12/1/21 17:06
4-Bromofluorobenzene	97.5	70-130	12/1/21 17:06

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-112-20211130

Sampled: 11/30/2021 09:00

Sample ID: 21K1800-21

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Acrylonitrile	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Bromoform	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Bromomethane	ND	4.0	µg/L	2	V-05	SW-846 8260D	12/1/21	12/1/21 19:48	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Chloromethane	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
cis-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-112-20211130

Sampled: 11/30/2021 09:00

Sample ID: 21K1800-21

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Hexachlorobutadiene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Naphthalene	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Tetrachloroethylene	61	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2	V-05	SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Trichloroethylene	4.9	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Vinyl Chloride	ND	4.0	µg/L	2	V-05	SW-846 8260D	12/1/21	12/1/21 19:48	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
o-Xylene	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH
Xylenes (total)	ND	2.0	µg/L	2		SW-846 8260D	12/1/21	12/1/21 19:48	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.9	70-130	12/1/21 19:48
Toluene-d8	103	70-130	12/1/21 19:48
4-Bromofluorobenzene	97.6	70-130	12/1/21 19:48

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-209D-20211130

Sampled: 11/30/2021 09:30

Sample ID: 21K1800-22

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	200	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Acrylonitrile	ND	20	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Benzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Bromobenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Bromochloromethane	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Bromodichloromethane	ND	2.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Bromoform	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Bromomethane	ND	8.0	µg/L	4	V-05	SW-846 8260D	12/1/21	12/1/21 20:16	EEH
2-Butanone (MEK)	ND	80	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
tert-Butyl Alcohol (TBA)	ND	80	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
n-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
sec-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
tert-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Carbon Disulfide	ND	20	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Carbon Tetrachloride	ND	20	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Chlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Chlorodibromomethane	ND	2.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Chloroethane	ND	8.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Chloroform	ND	8.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Chloromethane	ND	8.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
2-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
4-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,2-Dibromoethane (EDB)	ND	2.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Dibromomethane	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,2-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,3-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,4-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
trans-1,4-Dichloro-2-butene	ND	8.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Dichlorodifluoromethane (Freon 12)	ND	8.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,1-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,2-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,1-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
cis-1,2-Dichloroethylene	21	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
trans-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,3-Dichloropropane	ND	2.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
2,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,1-Dichloropropene	ND	8.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
cis-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
trans-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Diethyl Ether	ND	8.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-209D-20211130

Sampled: 11/30/2021 09:30

Sample ID: 21K1800-22

Sample Matrix: Ground Water

Sample Flags: RL-11

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,4-Dioxane	ND	200	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Ethylbenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Hexachlorobutadiene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
2-Hexanone (MBK)	ND	40	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Isopropylbenzene (Cumene)	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
p-Isopropyltoluene (p-Cymene)	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Methyl Acetate	18	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Methyl tert-Butyl Ether (MTBE)	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Methyl Cyclohexane	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Methylene Chloride	ND	20	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
4-Methyl-2-pentanone (MIBK)	ND	40	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Naphthalene	ND	8.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
n-Propylbenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Styrene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,1,1,2-Tetrachloroethane	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Tetrachloroethylene	230	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Tetrahydrofuran	ND	40	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Toluene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,2,3-Trichlorobenzene	ND	20	µg/L	4	V-05	SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,2,4-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,3,5-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,1,1-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,1,2-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Trichloroethylene	86	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Trichlorofluoromethane (Freon 11)	ND	8.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,2,3-Trichloropropane	ND	8.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,2,4-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
1,3,5-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Vinyl Chloride	ND	8.0	µg/L	4	V-05	SW-846 8260D	12/1/21	12/1/21 20:16	EEH
m+p Xylene	ND	8.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
o-Xylene	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH
Xylenes (total)	ND	4.0	µg/L	4		SW-846 8260D	12/1/21	12/1/21 20:16	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.1	70-130	12/1/21 20:16
Toluene-d8	102	70-130	12/1/21 20:16
4-Bromofluorobenzene	98.7	70-130	12/1/21 20:16

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-218D-20211130

Sampled: 11/30/2021 10:00

Sample ID: 21K1800-23

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	10000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Acrylonitrile	ND	1000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
tert-Amyl Methyl Ether (TAME)	ND	100	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Benzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Bromobenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Bromochloromethane	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Bromodichloromethane	ND	100	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Bromoform	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Bromomethane	ND	400	µg/L	200	V-05	SW-846 8260D	12/1/21	12/1/21 20:43	EEH
2-Butanone (MEK)	ND	4000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
tert-Butyl Alcohol (TBA)	ND	4000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
n-Butylbenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
sec-Butylbenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
tert-Butylbenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	100	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Carbon Disulfide	ND	1000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Carbon Tetrachloride	ND	1000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Chlorobenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Chlorodibromomethane	ND	100	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Chloroethane	ND	400	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Chloroform	ND	400	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Chloromethane	ND	400	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
2-Chlorotoluene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
4-Chlorotoluene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,2-Dibromoethane (EDB)	ND	100	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Dibromomethane	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,2-Dichlorobenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,3-Dichlorobenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,4-Dichlorobenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
trans-1,4-Dichloro-2-butene	ND	400	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Dichlorodifluoromethane (Freon 12)	ND	400	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,1-Dichloroethane	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,2-Dichloroethane	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,1-Dichloroethylene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
cis-1,2-Dichloroethylene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
trans-1,2-Dichloroethylene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,2-Dichloropropane	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,3-Dichloropropane	ND	100	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
2,2-Dichloropropane	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,1-Dichloropropene	ND	400	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
cis-1,3-Dichloropropene	ND	100	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
trans-1,3-Dichloropropene	ND	100	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Diethyl Ether	ND	400	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-218D-20211130

Sampled: 11/30/2021 10:00

Sample ID: 21K1800-23

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	100	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,4-Dioxane	ND	10000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Ethylbenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Hexachlorobutadiene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
2-Hexanone (MBK)	ND	2000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Isopropylbenzene (Cumene)	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
p-Isopropyltoluene (p-Cymene)	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Methyl Acetate	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Methyl tert-Butyl Ether (MTBE)	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Methyl Cyclohexane	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Methylene Chloride	ND	1000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
4-Methyl-2-pentanone (MIBK)	ND	2000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Naphthalene	ND	400	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
n-Propylbenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Styrene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,1,1,2-Tetrachloroethane	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,1,2,2-Tetrachloroethane	ND	100	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Tetrachloroethylene	8900	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Tetrahydrofuran	ND	2000	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Toluene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,2,3-Trichlorobenzene	ND	1000	µg/L	200	V-05	SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,2,4-Trichlorobenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,3,5-Trichlorobenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,1,1-Trichloroethane	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,1,2-Trichloroethane	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Trichloroethylene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Trichlorofluoromethane (Freon 11)	ND	400	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,2,3-Trichloropropane	ND	400	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,2,4-Trimethylbenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
1,3,5-Trimethylbenzene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Vinyl Chloride	ND	400	µg/L	200	V-05	SW-846 8260D	12/1/21	12/1/21 20:43	EEH
m+p Xylene	ND	400	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
o-Xylene	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH
Xylenes (total)	ND	200	µg/L	200		SW-846 8260D	12/1/21	12/1/21 20:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	12/1/21 20:43
Toluene-d8	100	70-130	12/1/21 20:43
4-Bromofluorobenzene	98.8	70-130	12/1/21 20:43

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-218S-20211130

Sampled: 11/30/2021 10:30

Sample ID: 21K1800-24

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	12/1/21	12/1/21 18:00	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:00	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-218S-20211130

Sampled: 11/30/2021 10:30

Sample ID: 21K1800-24

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	12/1/21	12/1/21 18:00	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Tetrachloroethylene	170	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Trichloroethylene	1.2	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Vinyl Chloride	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 18:00	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 18:00	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	12/1/21 18:00
Toluene-d8	101	70-130	12/1/21 18:00
4-Bromofluorobenzene	98.3	70-130	12/1/21 18:00

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-116D-20211130

Sampled: 11/30/2021 13:00

Sample ID: 21K1800-25

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	12/1/21	12/1/21 16:12	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 16:12	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-116D-20211130

Sampled: 11/30/2021 13:00

Sample ID: 21K1800-25

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	12/1/21	12/1/21 16:12	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Tetrachloroethylene	1.3	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Vinyl Chloride	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 16:12	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	12/1/21 16:12
Toluene-d8	101	70-130	12/1/21 16:12
4-Bromofluorobenzene	98.9	70-130	12/1/21 16:12

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-116S-20211130

Sampled: 11/30/2021 13:40

Sample ID: 21K1800-26

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	12/1/21	12/1/21 16:39	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 16:39	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH

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: 21K1800

Date Received: 11/30/2021

Field Sample #: MW-116S-20211130

Sampled: 11/30/2021 13:40

Sample ID: 21K1800-26

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	12/1/21	12/1/21 16:39	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Vinyl Chloride	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/21	12/1/21 16:39	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/21	12/1/21 16:39	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	12/1/21 16:39
Toluene-d8	101	70-130	12/1/21 16:39
4-Bromofluorobenzene	98.1	70-130	12/1/21 16:39

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21K1800-06 [MW-109D-20211129]	B295876	50.0	50.0	12/01/21
21K1800-07 [GZA-3-20211129]	B295876	50.0	50.0	12/01/21
21K1800-08 [GZA-3-20211129 FD]	B295876	50.0	50.0	12/01/21

**Prep Method: SW-846 3510C    Analytical Method: SW-846 8100 Modified**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21K1800-03 [CW-06-20211129]	B295874	970	0.900	12/01/21
21K1800-04 [CW-06-20211129FD]	B295874	985	0.900	12/01/21

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21K1800-01 [CW-01-20211129]	B295842	1	5.00	12/01/21
21K1800-02 [CW-02-20211129]	B295842	5	5.00	12/01/21
21K1800-05 [TB-1-20211129]	B295842	5	5.00	12/01/21
21K1800-06 [MW-109D-20211129]	B295842	5	5.00	12/01/21
21K1800-07 [GZA-3-20211129]	B295842	5	5.00	12/01/21
21K1800-09 [MW-207S-20211129]	B295842	5	5.00	12/01/21
21K1800-10 [MW-207D-20211129]	B295842	5	5.00	12/01/21
21K1800-11 [MW-202S-20211129]	B295842	5	5.00	12/01/21

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21K1800-12 [MW-202D-20211129]	B295843	5	5.00	12/01/21
21K1800-15 [MW-101D-20211129]	B295843	5	5.00	12/01/21
21K1800-16 [MW-201D-20211129]	B295843	0.2	5.00	12/01/21
21K1800-17 [MW-216D-20211130]	B295843	5	5.00	12/01/21
21K1800-18 [MW-216S-20211130]	B295843	1	5.00	12/01/21
21K1800-19 [MW-217D-20211130]	B295843	5	5.00	12/01/21
21K1800-20 [MW-217S-20211130]	B295843	2.5	5.00	12/01/21
21K1800-21 [MW-112-20211130]	B295843	2.5	5.00	12/01/21
21K1800-22 [MW-209D-20211130]	B295843	1.25	5.00	12/01/21
21K1800-23 [MW-218D-20211130]	B295843	0.025	5.00	12/01/21
21K1800-24 [MW-218S-20211130]	B295843	5	5.00	12/01/21
21K1800-25 [MW-116D-20211130]	B295843	5	5.00	12/01/21
21K1800-26 [MW-116S-20211130]	B295843	5	5.00	12/01/21

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21K1800-13 [MW-101S-20211129]	B295901	2.5	5.00	12/01/21
21K1800-14 [MW-101S-20211129FD]	B295901	2.5	5.00	12/02/21

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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
<b>Batch B295842 - SW-846 5030B</b>										
<b>Blank (B295842-BLK1)</b>										
Prepared & Analyzed: 12/01/21										
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							V-05
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
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							V-05
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							V-05
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 B295842 - SW-846 5030B**
**Blank (B295842-BLK1)**

Prepared &amp; Analyzed: 12/01/21

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							V-05
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	27.0		µg/L	25.0		108	70-130			
Surrogate: Toluene-d8	26.0		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			

**LCS (B295842-BS1)**

Prepared &amp; Analyzed: 12/01/21

Acetone	82.1	50	µg/L	100		82.1	70-160			†
Acrylonitrile	7.90	5.0	µg/L	10.0		79.0	70-130			
tert-Amyl Methyl Ether (TAME)	10.6	0.50	µg/L	10.0		106	70-130			
Benzene	10.4	1.0	µg/L	10.0		104	70-130			
Bromobenzene	9.64	1.0	µg/L	10.0		96.4	70-130			
Bromochloromethane	10.7	1.0	µg/L	10.0		107	70-130			
Bromodichloromethane	10.8	0.50	µg/L	10.0		108	70-130			
Bromoform	9.69	1.0	µg/L	10.0		96.9	70-130			
Bromomethane	12.5	2.0	µg/L	10.0		125	40-160			V-20 †
2-Butanone (MEK)	75.4	20	µg/L	100		75.4	40-160			†
tert-Butyl Alcohol (TBA)	69.6	20	µg/L	100		69.6	40-160			V-05 †
n-Butylbenzene	8.15	1.0	µg/L	10.0		81.5	70-130			
sec-Butylbenzene	9.76	1.0	µg/L	10.0		97.6	70-130			
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0		101	70-130			
Carbon Disulfide	96.4	5.0	µg/L	100		96.4	70-130			
Carbon Tetrachloride	10.6	5.0	µg/L	10.0		106	70-130			
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106	70-130			
Chloroethane	12.3	2.0	µg/L	10.0		123	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B295842 - SW-846 5030B</b>										
<b>LCS (B295842-BS1)</b>										
Prepared & Analyzed: 12/01/21										
Chloroform	10.8	2.0	µg/L	10.0		108	70-130			
Chloromethane	11.0	2.0	µg/L	10.0		110	40-160			†
2-Chlorotoluene	9.83	1.0	µg/L	10.0		98.3	70-130			
4-Chlorotoluene	9.48	1.0	µg/L	10.0		94.8	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.86	5.0	µg/L	10.0		78.6	70-130			
1,2-Dibromoethane (EDB)	9.76	0.50	µg/L	10.0		97.6	70-130			
Dibromomethane	10.3	1.0	µg/L	10.0		103	70-130			
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130			
trans-1,4-Dichloro-2-butene	8.16	2.0	µg/L	10.0		81.6	70-130			
Dichlorodifluoromethane (Freon 12)	9.37	2.0	µg/L	10.0		93.7	40-160			†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloroethane	9.84	1.0	µg/L	10.0		98.4	70-130			
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
trans-1,2-Dichloroethylene	9.95	1.0	µg/L	10.0		99.5	70-130			
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	70-130			
1,3-Dichloropropane	9.95	0.50	µg/L	10.0		99.5	70-130			
2,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	40-130			†
1,1-Dichloropropene	9.94	2.0	µg/L	10.0		99.4	70-130			
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130			
trans-1,3-Dichloropropene	9.59	0.50	µg/L	10.0		95.9	70-130			
Diethyl Ether	9.67	2.0	µg/L	10.0		96.7	70-130			
Diisopropyl Ether (DIPE)	9.94	0.50	µg/L	10.0		99.4	70-130			
1,4-Dioxane	74.5	50	µg/L	100		74.5	40-130		V-05	†
Ethylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
Hexachlorobutadiene	10.0	0.60	µg/L	10.0		100	70-130			
2-Hexanone (MBK)	72.0	10	µg/L	100		72.0	70-160		V-05	†
Isopropylbenzene (Cumene)	9.90	1.0	µg/L	10.0		99.0	70-130			
p-Isopropyltoluene (p-Cymene)	9.14	1.0	µg/L	10.0		91.4	70-130			
Methyl Acetate	8.25	1.0	µg/L	10.0		82.5	70-130			
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101	70-130			
Methyl Cyclohexane	9.70	1.0	µg/L	10.0		97.0	70-130			
Methylene Chloride	11.0	5.0	µg/L	10.0		110	70-130			
4-Methyl-2-pentanone (MIBK)	77.6	10	µg/L	100		77.6	70-160			†
Naphthalene	4.29	2.0	µg/L	10.0		42.9	40-130		V-05	†
n-Propylbenzene	9.19	1.0	µg/L	10.0		91.9	70-130			
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1,2-Tetrachloroethane	11.2	1.0	µg/L	10.0		112	70-130			
1,1,2,2-Tetrachloroethane	9.28	0.50	µg/L	10.0		92.8	70-130			
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Tetrahydrofuran	8.28	10	µg/L	10.0		82.8	70-130			
Toluene	10.2	1.0	µg/L	10.0		102	70-130			
<b>1,2,3-Trichlorobenzene</b>	6.71	5.0	µg/L	10.0		<b>67.1</b>	* 70-130			L-07, V-05
<b>1,2,4-Trichlorobenzene</b>	6.64	1.0	µg/L	10.0		<b>66.4</b>	* 70-130			L-07, V-05
1,3,5-Trichlorobenzene	9.08	1.0	µg/L	10.0		90.8	70-130			
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
Trichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Trichlorofluoromethane (Freon 11)	10.7	2.0	µg/L	10.0		107	70-130			
1,2,3-Trichloropropane	8.37	2.0	µg/L	10.0		83.7	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
<b>Batch B295842 - SW-846 5030B</b>										
<b>LCS (B295842-BS1)</b>										
Prepared & Analyzed: 12/01/21										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.0	1.0	µg/L	10.0		120	70-130			
1,2,4-Trimethylbenzene	9.69	1.0	µg/L	10.0		96.9	70-130			
1,3,5-Trimethylbenzene	9.41	1.0	µg/L	10.0		94.1	70-130			
Vinyl Chloride	10.9	2.0	µg/L	10.0		109	40-160			†
m+p Xylene	20.2	2.0	µg/L	20.0		101	70-130			
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130			
Xylenes (total)	30.5	1.0	µg/L	30.0		102	0-200			
Surrogate: 1,2-Dichloroethane-d4	26.9		µg/L	25.0		108	70-130			
Surrogate: Toluene-d8	26.7		µg/L	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	26.5		µg/L	25.0		106	70-130			
<b>LCS Dup (B295842-BSD1)</b>										
Prepared & Analyzed: 12/01/21										
Acetone	92.6	50	µg/L	100		92.6	70-160	12.0	25	†
Acrylonitrile	8.73	5.0	µg/L	10.0		87.3	70-130	9.98	25	
tert-Amyl Methyl Ether (TAME)	10.8	0.50	µg/L	10.0		108	70-130	2.16	25	
Benzene	10.6	1.0	µg/L	10.0		106	70-130	1.90	25	
Bromobenzene	9.88	1.0	µg/L	10.0		98.8	70-130	2.46	25	
Bromochloromethane	10.9	1.0	µg/L	10.0		109	70-130	1.94	25	
Bromodichloromethane	10.8	0.50	µg/L	10.0		108	70-130	0.371	25	
Bromoform	9.62	1.0	µg/L	10.0		96.2	70-130	0.725	25	
Bromomethane	13.0	2.0	µg/L	10.0		130	40-160	4.07	25	V-20 †
2-Butanone (MEK)	85.6	20	µg/L	100		85.6	40-160	12.7	25	†
tert-Butyl Alcohol (TBA)	82.8	20	µg/L	100		82.8	40-160	17.3	25	V-05 †
n-Butylbenzene	8.23	1.0	µg/L	10.0		82.3	70-130	0.977	25	
sec-Butylbenzene	9.67	1.0	µg/L	10.0		96.7	70-130	0.926	25	
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130	0.389	25	
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103	70-130	2.16	25	
Carbon Disulfide	97.9	5.0	µg/L	100		97.9	70-130	1.50	25	
Carbon Tetrachloride	10.6	5.0	µg/L	10.0		106	70-130	0.0940	25	
Chlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	2.29	25	
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109	70-130	3.08	25	
Chloroethane	12.3	2.0	µg/L	10.0		123	70-130	0.0814	25	
Chloroform	10.8	2.0	µg/L	10.0		108	70-130	0.185	25	
Chloromethane	12.0	2.0	µg/L	10.0		120	40-160	8.64	25	†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	3.79	25	
4-Chlorotoluene	9.77	1.0	µg/L	10.0		97.7	70-130	3.01	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.80	5.0	µg/L	10.0		88.0	70-130	11.3	25	
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130	5.87	25	
Dibromomethane	10.4	1.0	µg/L	10.0		104	70-130	0.482	25	
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	0.857	25	
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	1.30	25	
1,4-Dichlorobenzene	9.94	1.0	µg/L	10.0		99.4	70-130	1.20	25	
trans-1,4-Dichloro-2-butene	9.30	2.0	µg/L	10.0		93.0	70-130	13.1	25	
Dichlorodifluoromethane (Freon 12)	9.69	2.0	µg/L	10.0		96.9	40-160	3.36	25	†
1,1-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130	4.48	25	
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	2.31	25	
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	0.187	25	
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	0.569	25	
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	4.61	25	
1,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	70-130	0.771	25	
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130	1.30	25	
2,2-Dichloropropane	10.5	1.0	µg/L	10.0		105	40-130	0.382	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
<b>Batch B295842 - SW-846 5030B</b>										
<b>LCS Dup (B295842-BSD1)</b>										
Prepared & Analyzed: 12/01/21										
1,1-Dichloropropene	9.82	2.0	µg/L	10.0		98.2	70-130	1.21	25	
cis-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130	2.24	25	
trans-1,3-Dichloropropene	9.63	0.50	µg/L	10.0		96.3	70-130	0.416	25	
Diethyl Ether	10.1	2.0	µg/L	10.0		101	70-130	4.25	25	
Diisopropyl Ether (DIPE)	10.1	0.50	µg/L	10.0		101	70-130	1.30	25	
1,4-Dioxane	84.3	50	µg/L	100		84.3	40-130	12.3	50	V-05 † ‡
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	3.23	25	
Hexachlorobutadiene	10.0	0.60	µg/L	10.0		100	70-130	0.399	25	
2-Hexanone (MBK)	79.2	10	µg/L	100		79.2	70-160	9.42	25	V-05 †
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130	3.38	25	
p-Isopropyltoluene (p-Cymene)	9.14	1.0	µg/L	10.0		91.4	70-130	0.00	25	
Methyl Acetate	8.73	1.0	µg/L	10.0		87.3	70-130	5.65	25	
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108	70-130	6.12	25	
Methyl Cyclohexane	9.72	1.0	µg/L	10.0		97.2	70-130	0.206	25	
Methylene Chloride	11.0	5.0	µg/L	10.0		110	70-130	0.0913	25	
4-Methyl-2-pentanone (MIBK)	85.9	10	µg/L	100		85.9	70-160	10.1	25	†
Naphthalene	5.45	2.0	µg/L	10.0		54.5	40-130	23.8	25	V-05 †
n-Propylbenzene	9.52	1.0	µg/L	10.0		95.2	70-130	3.53	25	
Styrene	10.4	1.0	µg/L	10.0		104	70-130	0.193	25	
1,1,1,2-Tetrachloroethane	11.3	1.0	µg/L	10.0		113	70-130	0.712	25	
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130	11.2	25	
Tetrachloroethylene	11.2	1.0	µg/L	10.0		112	70-130	5.13	25	
Tetrahydrofuran	9.47	10	µg/L	10.0		94.7	70-130	13.4	25	
Toluene	10.5	1.0	µg/L	10.0		105	70-130	2.22	25	
1,2,3-Trichlorobenzene	7.31	5.0	µg/L	10.0		73.1	70-130	8.56	25	V-05
1,2,4-Trichlorobenzene	7.19	1.0	µg/L	10.0		71.9	70-130	7.95	25	V-05
1,3,5-Trichlorobenzene	8.99	1.0	µg/L	10.0		89.9	70-130	0.996	25	
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130	0.858	25	
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111	70-130	7.78	25	
Trichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	0.937	25	
Trichlorofluoromethane (Freon 11)	10.7	2.0	µg/L	10.0		107	70-130	0.187	25	
1,2,3-Trichloropropane	8.98	2.0	µg/L	10.0		89.8	70-130	7.03	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.0		117	70-130	2.70	25	
1,2,4-Trimethylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130	2.35	25	
1,3,5-Trimethylbenzene	9.60	1.0	µg/L	10.0		96.0	70-130	2.00	25	
Vinyl Chloride	11.1	2.0	µg/L	10.0		111	40-160	1.36	25	†
m+p Xylene	20.3	2.0	µg/L	20.0		102	70-130	0.394	25	
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130	3.18	25	
Xylenes (total)	30.9	1.0	µg/L	30.0		103	0-200	1.34		
Surrogate: 1,2-Dichloroethane-d4	25.7		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	26.8		µg/L	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	26.6		µg/L	25.0		106	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B295843 - SW-846 5030B</b>										
<b>Blank (B295843-BLK1)</b>										
Prepared & Analyzed: 12/01/21										
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-05
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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**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
<b>Batch B295843 - SW-846 5030B</b>										
<b>Blank (B295843-BLK1)</b>										
Prepared & Analyzed: 12/01/21										
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							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							V-05
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.7		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	25.8		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.4	70-130			
<b>LCS (B295843-BS1)</b>										
Prepared & Analyzed: 12/01/21										
Acetone	98.3	50	µg/L	100		98.3	70-160			†
Acrylonitrile	10.8	5.0	µg/L	10.0		108	70-130			
tert-Amyl Methyl Ether (TAME)	10.6	0.50	µg/L	10.0		106	70-130			
Benzene	10.4	1.0	µg/L	10.0		104	70-130			
Bromobenzene	9.79	1.0	µg/L	10.0		97.9	70-130			
Bromochloromethane	10.5	1.0	µg/L	10.0		105	70-130			V-20
Bromodichloromethane	10.5	0.50	µg/L	10.0		105	70-130			
Bromoform	10.4	1.0	µg/L	10.0		104	70-130			
Bromomethane	9.66	2.0	µg/L	10.0		96.6	40-160			V-05 †
2-Butanone (MEK)	98.3	20	µg/L	100		98.3	40-160			†
tert-Butyl Alcohol (TBA)	99.9	20	µg/L	100		99.9	40-160			†
n-Butylbenzene	9.68	1.0	µg/L	10.0		96.8	70-130			
sec-Butylbenzene	9.67	1.0	µg/L	10.0		96.7	70-130			
tert-Butylbenzene	9.63	1.0	µg/L	10.0		96.3	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.8	0.50	µg/L	10.0		108	70-130			
Carbon Disulfide	98.6	5.0	µg/L	100		98.6	70-130			
Carbon Tetrachloride	10.9	5.0	µg/L	10.0		109	70-130			
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106	70-130			
Chloroethane	10.9	2.0	µg/L	10.0		109	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B295843 - SW-846 5030B</b>										
<b>LCS (B295843-BS1)</b>										
Prepared & Analyzed: 12/01/21										
Chloroform	10.8	2.0	µg/L	10.0		108	70-130			
Chloromethane	10.9	2.0	µg/L	10.0		109	40-160			†
2-Chlorotoluene	9.53	1.0	µg/L	10.0		95.3	70-130			
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.96	5.0	µg/L	10.0		89.6	70-130			
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106	70-130			
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichlorobenzene	9.76	1.0	µg/L	10.0		97.6	70-130			
1,3-Dichlorobenzene	9.66	1.0	µg/L	10.0		96.6	70-130			
1,4-Dichlorobenzene	9.91	1.0	µg/L	10.0		99.1	70-130			
trans-1,4-Dichloro-2-butene	9.33	2.0	µg/L	10.0		93.3	70-130			
Dichlorodifluoromethane (Freon 12)	9.43	2.0	µg/L	10.0		94.3	40-160			†
1,1-Dichloroethane	10.8	1.0	µg/L	10.0		108	70-130			
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130			
1,1-Dichloroethylene	9.93	1.0	µg/L	10.0		99.3	70-130			
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
trans-1,2-Dichloroethylene	9.02	1.0	µg/L	10.0		90.2	70-130			
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130			
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130			
2,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	40-130			†
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107	70-130			
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130			
trans-1,3-Dichloropropene	10.9	0.50	µg/L	10.0		109	70-130			
Diethyl Ether	10.5	2.0	µg/L	10.0		105	70-130			
Diisopropyl Ether (DIPE)	10.1	0.50	µg/L	10.0		101	70-130			
1,4-Dioxane	99.1	50	µg/L	100		99.1	40-130			†
Ethylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
Hexachlorobutadiene	9.76	0.60	µg/L	10.0		97.6	70-130			
2-Hexanone (MBK)	104	10	µg/L	100		104	70-160			†
Isopropylbenzene (Cumene)	10.0	1.0	µg/L	10.0		100	70-130			
p-Isopropyltoluene (p-Cymene)	9.62	1.0	µg/L	10.0		96.2	70-130			
Methyl Acetate	8.61	1.0	µg/L	10.0		86.1	70-130			
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.0		106	70-130			
Methyl Cyclohexane	10.4	1.0	µg/L	10.0		104	70-130			
Methylene Chloride	10.9	5.0	µg/L	10.0		109	70-130			
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100		105	70-160			†
Naphthalene	9.15	2.0	µg/L	10.0		91.5	40-130			†
n-Propylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
Styrene	9.91	1.0	µg/L	10.0		99.1	70-130			
1,1,1,2-Tetrachloroethane	9.98	1.0	µg/L	10.0		99.8	70-130			
1,1,2,2-Tetrachloroethane	9.61	0.50	µg/L	10.0		96.1	70-130			
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Tetrahydrofuran	10.4	10	µg/L	10.0		104	70-130			
Toluene	10.4	1.0	µg/L	10.0		104	70-130			
1,2,3-Trichlorobenzene	9.24	5.0	µg/L	10.0		92.4	70-130			V-05
1,2,4-Trichlorobenzene	9.67	1.0	µg/L	10.0		96.7	70-130			
1,3,5-Trichlorobenzene	9.96	1.0	µg/L	10.0		99.6	70-130			
1,1,1-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130			
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102	70-130			
1,2,3-Trichloropropane	9.88	2.0	µg/L	10.0		98.8	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B295843 - SW-846 5030B</b>										
<b>LCS (B295843-BS1)</b>										
Prepared & Analyzed: 12/01/21										
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	9.56	1.0	µg/L	10.0		95.6	70-130			
1,3,5-Trimethylbenzene	9.98	1.0	µg/L	10.0		99.8	70-130			
Vinyl Chloride	6.46	2.0	µg/L	10.0		64.6	40-160			V-05 †
m+p Xylene	19.8	2.0	µg/L	20.0		99.1	70-130			
o-Xylene	9.92	1.0	µg/L	10.0		99.2	70-130			
Xylenes (total)	29.7	1.0	µg/L	30.0		99.1	0-200			
Surrogate: 1,2-Dichloroethane-d4	24.7		µg/L	25.0		98.9	70-130			
Surrogate: Toluene-d8	25.8		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			
<b>LCS Dup (B295843-BSD1)</b>										
Prepared & Analyzed: 12/01/21										
Acetone	101	50	µg/L	100		101	70-160	2.34	25	†
Acrylonitrile	10.0	5.0	µg/L	10.0		100	70-130	7.03	25	
tert-Amyl Methyl Ether (TAME)	11.0	0.50	µg/L	10.0		110	70-130	2.96	25	
Benzene	10.2	1.0	µg/L	10.0		102	70-130	1.55	25	
Bromobenzene	10.2	1.0	µg/L	10.0		102	70-130	3.81	25	
Bromochloromethane	10.7	1.0	µg/L	10.0		107	70-130	1.98	25	V-20
Bromodichloromethane	10.5	0.50	µg/L	10.0		105	70-130	0.476	25	
Bromoform	10.8	1.0	µg/L	10.0		108	70-130	2.93	25	
Bromomethane	10.6	2.0	µg/L	10.0		106	40-160	9.00	25	V-05 †
2-Butanone (MEK)	110	20	µg/L	100		110	40-160	11.2	25	†
tert-Butyl Alcohol (TBA)	104	20	µg/L	100		104	40-160	4.47	25	†
n-Butylbenzene	9.89	1.0	µg/L	10.0		98.9	70-130	2.15	25	
sec-Butylbenzene	9.90	1.0	µg/L	10.0		99.0	70-130	2.35	25	
tert-Butylbenzene	9.81	1.0	µg/L	10.0		98.1	70-130	1.85	25	
tert-Butyl Ethyl Ether (TBEE)	10.8	0.50	µg/L	10.0		108	70-130	0.833	25	
Carbon Disulfide	95.7	5.0	µg/L	100		95.7	70-130	2.92	25	
Carbon Tetrachloride	10.8	5.0	µg/L	10.0		108	70-130	0.924	25	
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	0.00	25	
Chlorodibromomethane	11.2	0.50	µg/L	10.0		112	70-130	5.67	25	
Chloroethane	10.7	2.0	µg/L	10.0		107	70-130	1.94	25	
Chloroform	10.6	2.0	µg/L	10.0		106	70-130	1.96	25	
Chloromethane	11.4	2.0	µg/L	10.0		114	40-160	4.22	25	†
2-Chlorotoluene	9.72	1.0	µg/L	10.0		97.2	70-130	1.97	25	
4-Chlorotoluene	10.0	1.0	µg/L	10.0		100	70-130	0.598	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.61	5.0	µg/L	10.0		96.1	70-130	7.00	25	
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130	2.88	25	
Dibromomethane	10.8	1.0	µg/L	10.0		108	70-130	2.16	25	
1,2-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130	2.73	25	
1,3-Dichlorobenzene	9.77	1.0	µg/L	10.0		97.7	70-130	1.13	25	
1,4-Dichlorobenzene	9.85	1.0	µg/L	10.0		98.5	70-130	0.607	25	
trans-1,4-Dichloro-2-butene	9.78	2.0	µg/L	10.0		97.8	70-130	4.71	25	
Dichlorodifluoromethane (Freon 12)	9.06	2.0	µg/L	10.0		90.6	40-160	4.00	25	†
1,1-Dichloroethane	10.8	1.0	µg/L	10.0		108	70-130	0.278	25	
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130	1.48	25	
1,1-Dichloroethylene	9.65	1.0	µg/L	10.0		96.5	70-130	2.86	25	
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	0.186	25	
trans-1,2-Dichloroethylene	9.00	1.0	µg/L	10.0		90.0	70-130	0.222	25	
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130	0.378	25	
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107	70-130	0.562	25	
2,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	40-130	0.521	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
<b>Batch B295843 - SW-846 5030B</b>										
<b>LCS Dup (B295843-BSD1)</b>										
Prepared & Analyzed: 12/01/21										
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107	70-130	0.0933	25	
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108	70-130	1.30	25	
trans-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130	1.39	25	
Diethyl Ether	10.1	2.0	µg/L	10.0		101	70-130	3.69	25	
Diisopropyl Ether (DIPE)	10.2	0.50	µg/L	10.0		102	70-130	0.592	25	
1,4-Dioxane	111	50	µg/L	100		111	40-130	11.3	50	† ‡
Ethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	1.67	25	
Hexachlorobutadiene	10.7	0.60	µg/L	10.0		107	70-130	9.38	25	
2-Hexanone (MBK)	111	10	µg/L	100		111	70-160	6.55	25	†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130	1.58	25	
p-Isopropyltoluene (p-Cymene)	9.84	1.0	µg/L	10.0		98.4	70-130	2.26	25	
Methyl Acetate	8.86	1.0	µg/L	10.0		88.6	70-130	2.86	25	
Methyl tert-Butyl Ether (MTBE)	10.9	1.0	µg/L	10.0		109	70-130	3.17	25	
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106	70-130	2.19	25	
Methylene Chloride	10.6	5.0	µg/L	10.0		106	70-130	2.80	25	
4-Methyl-2-pentanone (MIBK)	110	10	µg/L	100		110	70-160	5.02	25	†
Naphthalene	9.51	2.0	µg/L	10.0		95.1	40-130	3.86	25	†
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130	1.68	25	
Styrene	9.91	1.0	µg/L	10.0		99.1	70-130	0.00	25	
1,1,1,2-Tetrachloroethane	10.0	1.0	µg/L	10.0		100	70-130	0.599	25	
1,1,2,2-Tetrachloroethane	9.98	0.50	µg/L	10.0		99.8	70-130	3.78	25	
Tetrachloroethylene	11.2	1.0	µg/L	10.0		112	70-130	1.90	25	
Tetrahydrofuran	10.8	10	µg/L	10.0		108	70-130	4.52	25	
Toluene	10.6	1.0	µg/L	10.0		106	70-130	1.33	25	
1,2,3-Trichlorobenzene	9.83	5.0	µg/L	10.0		98.3	70-130	6.19	25	V-05
1,2,4-Trichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	4.45	25	
1,3,5-Trichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	2.77	25	
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130	0.552	25	
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111	70-130	2.66	25	
Trichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	1.58	25	
Trichlorofluoromethane (Freon 11)	9.83	2.0	µg/L	10.0		98.3	70-130	3.20	25	
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.0		102	70-130	3.09	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.0		108	70-130	2.55	25	
1,2,4-Trimethylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130	2.38	25	
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	1.39	25	
Vinyl Chloride	6.63	2.0	µg/L	10.0		66.3	40-160	2.60	25	V-05 †
m+p Xylene	20.0	2.0	µg/L	20.0		100	70-130	1.05	25	
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130	1.40	25	
Xylenes (total)	30.1	1.0	µg/L	30.0		100	0-200	1.17		
Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.0		99.9	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.0		101	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 B295901 - SW-846 5030B**
**Blank (B295901-BLK1)**

Prepared &amp; Analyzed: 12/02/21

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
<b>Batch B295901 - SW-846 5030B</b>										
<b>Blank (B295901-BLK1)</b>										
Prepared & Analyzed: 12/02/21										
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							V-05
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	25.6		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	23.6		µg/L	25.0		94.4	70-130			
<b>LCS (B295901-BS1)</b>										
Prepared & Analyzed: 12/02/21										
Acetone	85.2	50	µg/L	100		85.2	70-160			†
Acrylonitrile	9.00	5.0	µg/L	10.0		90.0	70-130			
tert-Amyl Methyl Ether (TAME)	11.1	0.50	µg/L	10.0		111	70-130			
Benzene	11.1	1.0	µg/L	10.0		111	70-130			
Bromobenzene	10.1	1.0	µg/L	10.0		101	70-130			
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130			
Bromodichloromethane	11.1	0.50	µg/L	10.0		111	70-130			
Bromoform	9.98	1.0	µg/L	10.0		99.8	70-130			
Bromomethane	12.8	2.0	µg/L	10.0		128	40-160			V-20 †
2-Butanone (MEK)	79.7	20	µg/L	100		79.7	40-160			†
tert-Butyl Alcohol (TBA)	76.6	20	µg/L	100		76.6	40-160			†
n-Butylbenzene	8.25	1.0	µg/L	10.0		82.5	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)	10.6	0.50	µg/L	10.0		106	70-130			
Carbon Disulfide	107	5.0	µg/L	100		107	70-130			
Carbon Tetrachloride	11.0	5.0	µg/L	10.0		110	70-130			
Chlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109	70-130			
<b>Chloroethane</b>	13.8	2.0	µg/L	10.0		<b>138</b>	* 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
<b>Batch B295901 - SW-846 5030B</b>										
<b>LCS (B295901-BS1)</b>										
Prepared & Analyzed: 12/02/21										
Chloroform	10.9	2.0	µg/L	10.0		109	70-130			
Chloromethane	12.6	2.0	µg/L	10.0		126	40-160			V-20 †
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130			
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.76	5.0	µg/L	10.0		87.6	70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130			
Dibromomethane	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
trans-1,4-Dichloro-2-butene	8.92	2.0	µg/L	10.0		89.2	70-130			
Dichlorodifluoromethane (Freon 12)	11.7	2.0	µg/L	10.0		117	40-160			†
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130			
cis-1,2-Dichloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	70-130			
1,3-Dichloropropane	9.98	0.50	µg/L	10.0		99.8	70-130			
2,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	40-130			†
1,1-Dichloropropene	10.5	2.0	µg/L	10.0		105	70-130			
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108	70-130			
trans-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130			
Diethyl Ether	10.2	2.0	µg/L	10.0		102	70-130			
Diisopropyl Ether (DIPE)	10.4	0.50	µg/L	10.0		104	70-130			
1,4-Dioxane	83.2	50	µg/L	100		83.2	40-130			†
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Hexachlorobutadiene	10.4	0.60	µg/L	10.0		104	70-130			
2-Hexanone (MBK)	73.9	10	µg/L	100		73.9	70-160			†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130			
p-Isopropyltoluene (p-Cymene)	9.54	1.0	µg/L	10.0		95.4	70-130			
Methyl Acetate	8.19	1.0	µg/L	10.0		81.9	70-130			
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108	70-130			
Methyl Cyclohexane	10.2	1.0	µg/L	10.0		102	70-130			
Methylene Chloride	11.4	5.0	µg/L	10.0		114	70-130			
4-Methyl-2-pentanone (MIBK)	81.8	10	µg/L	100		81.8	70-160			†
Naphthalene	5.46	2.0	µg/L	10.0		54.6	40-130			V-05 †
n-Propylbenzene	9.86	1.0	µg/L	10.0		98.6	70-130			
Styrene	10.7	1.0	µg/L	10.0		107	70-130			
1,1,1,2-Tetrachloroethane	11.6	1.0	µg/L	10.0		116	70-130			
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130			
Tetrachloroethylene	11.9	1.0	µg/L	10.0		119	70-130			
Tetrahydrofuran	8.97	10	µg/L	10.0		89.7	70-130			
Toluene	10.9	1.0	µg/L	10.0		109	70-130			
1,2,3-Trichlorobenzene	7.41	5.0	µg/L	10.0		74.1	70-130			V-05
1,2,4-Trichlorobenzene	7.20	1.0	µg/L	10.0		72.0	70-130			V-05
1,3,5-Trichlorobenzene	9.47	1.0	µg/L	10.0		94.7	70-130			
1,1,1-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130			
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
Trichloroethylene	11.4	1.0	µg/L	10.0		114	70-130			
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0		111	70-130			
1,2,3-Trichloropropane	9.26	2.0	µg/L	10.0		92.6	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 B295901 - SW-846 5030B**
**LCS (B295901-BS1)**

Prepared &amp; Analyzed: 12/02/21

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.4	1.0	µg/L	10.0		124	70-130			
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,3,5-Trimethylbenzene	9.93	1.0	µg/L	10.0		99.3	70-130			
Vinyl Chloride	12.3	2.0	µg/L	10.0		123	40-160			†
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130			
o-Xylene	10.8	1.0	µg/L	10.0		108	70-130			
Xylenes (total)	32.0	1.0	µg/L	30.0		107	0-200			
Surrogate: 1,2-Dichloroethane-d4	25.1		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	25.9		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

**LCS Dup (B295901-BSD1)**

Prepared &amp; Analyzed: 12/02/21

Acetone	82.6	50	µg/L	100		82.6	70-160	3.13	25	†
Acrylonitrile	8.84	5.0	µg/L	10.0		88.4	70-130	1.79	25	
tert-Amyl Methyl Ether (TAME)	10.3	0.50	µg/L	10.0		103	70-130	7.01	25	
Benzene	10.5	1.0	µg/L	10.0		105	70-130	5.74	25	
Bromobenzene	9.85	1.0	µg/L	10.0		98.5	70-130	2.11	25	
Bromochloromethane	10.7	1.0	µg/L	10.0		107	70-130	6.70	25	
Bromodichloromethane	11.0	0.50	µg/L	10.0		110	70-130	0.633	25	
Bromoform	10.6	1.0	µg/L	10.0		106	70-130	6.03	25	
Bromomethane	12.2	2.0	µg/L	10.0		122	40-160	4.95	25	V-20 †
2-Butanone (MEK)	77.4	20	µg/L	100		77.4	40-160	2.95	25	†
tert-Butyl Alcohol (TBA)	74.5	20	µg/L	100		74.5	40-160	2.82	25	†
n-Butylbenzene	8.31	1.0	µg/L	10.0		83.1	70-130	0.725	25	
sec-Butylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130	2.32	25	
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	2.84	25	
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0		101	70-130	4.84	25	
Carbon Disulfide	102	5.0	µg/L	100		102	70-130	5.47	25	
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130	5.24	25	
Chlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	2.17	25	
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109	70-130	0.183	25	
Chloroethane	12.5	2.0	µg/L	10.0		125	70-130	9.42	25	V-20
Chloroform	10.4	2.0	µg/L	10.0		104	70-130	4.68	25	
Chloromethane	12.3	2.0	µg/L	10.0		123	40-160	2.09	25	V-20 †
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	2.92	25	
4-Chlorotoluene	9.89	1.0	µg/L	10.0		98.9	70-130	2.50	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.08	5.0	µg/L	10.0		80.8	70-130	8.08	25	
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130	2.92	25	
Dibromomethane	10.4	1.0	µg/L	10.0		104	70-130	0.479	25	
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.60	25	
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	4.11	25	
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	3.20	25	
trans-1,4-Dichloro-2-butene	8.32	2.0	µg/L	10.0		83.2	70-130	6.96	25	
Dichlorodifluoromethane (Freon 12)	11.0	2.0	µg/L	10.0		110	40-160	5.63	25	†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130	2.68	25	
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	2.55	25	
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	5.67	25	
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	6.70	25	
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	3.93	25	
1,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	70-130	0.480	25	
1,3-Dichloropropane	9.87	0.50	µg/L	10.0		98.7	70-130	1.11	25	
2,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	40-130	5.30	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
<b>Batch B295901 - SW-846 5030B</b>										
<b>LCS Dup (B295901-BSD1)</b>										
Prepared & Analyzed: 12/02/21										
1,1-Dichloropropene	9.98	2.0	µg/L	10.0		99.8	70-130	5.17	25	
cis-1,3-Dichloropropene	10.5	0.50	µg/L	10.0		105	70-130	2.73	25	
trans-1,3-Dichloropropene	9.90	0.50	µg/L	10.0		99.0	70-130	1.50	25	
Diethyl Ether	10.2	2.0	µg/L	10.0		102	70-130	0.687	25	
Diisopropyl Ether (DIPE)	9.96	0.50	µg/L	10.0		99.6	70-130	3.84	25	
1,4-Dioxane	82.8	50	µg/L	100		82.8	40-130	0.554	50	† ‡
Ethylbenzene	10.2	1.0	µg/L	10.0		102	70-130	3.64	25	
Hexachlorobutadiene	10.2	0.60	µg/L	10.0		102	70-130	1.36	25	
2-Hexanone (MBK)	72.4	10	µg/L	100		72.4	70-160	2.06	25	†
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0		103	70-130	1.54	25	
p-Isopropyltoluene (p-Cymene)	9.45	1.0	µg/L	10.0		94.5	70-130	0.948	25	
Methyl Acetate	8.53	1.0	µg/L	10.0		85.3	70-130	4.07	25	
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.0		106	70-130	2.52	25	
Methyl Cyclohexane	9.92	1.0	µg/L	10.0		99.2	70-130	2.49	25	
Methylene Chloride	10.8	5.0	µg/L	10.0		108	70-130	5.87	25	
4-Methyl-2-pentanone (MIBK)	81.2	10	µg/L	100		81.2	70-160	0.650	25	†
Naphthalene	4.99	2.0	µg/L	10.0		49.9	40-130	9.00	25	V-05 †
n-Propylbenzene	9.67	1.0	µg/L	10.0		96.7	70-130	1.95	25	
Styrene	10.5	1.0	µg/L	10.0		105	70-130	1.70	25	
1,1,1,2-Tetrachloroethane	11.0	1.0	µg/L	10.0		110	70-130	5.13	25	
1,1,2,2-Tetrachloroethane	9.68	0.50	µg/L	10.0		96.8	70-130	3.95	25	
Tetrachloroethylene	11.4	1.0	µg/L	10.0		114	70-130	4.28	25	
Tetrahydrofuran	9.20	10	µg/L	10.0		92.0	70-130	2.53	25	
Toluene	10.5	1.0	µg/L	10.0		105	70-130	3.82	25	
1,2,3-Trichlorobenzene	7.30	5.0	µg/L	10.0		73.0	70-130	1.50	25	V-05
<b>1,2,4-Trichlorobenzene</b>	6.88	1.0	µg/L	10.0		<b>68.8</b> *	70-130	4.55	25	L-07, V-05
1,3,5-Trichlorobenzene	9.11	1.0	µg/L	10.0		91.1	70-130	3.88	25	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	7.48	25	
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130	0.662	25	
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130	3.94	25	
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.0		106	70-130	4.42	25	
1,2,3-Trichloropropane	8.41	2.0	µg/L	10.0		84.1	70-130	9.62	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.1	1.0	µg/L	10.0		121	70-130	2.70	25	
1,2,4-Trimethylbenzene	9.86	1.0	µg/L	10.0		98.6	70-130	4.17	25	
1,3,5-Trimethylbenzene	9.73	1.0	µg/L	10.0		97.3	70-130	2.03	25	
Vinyl Chloride	11.6	2.0	µg/L	10.0		116	40-160	5.51	25	†
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130	0.0945	25	
o-Xylene	10.7	1.0	µg/L	10.0		107	70-130	1.30	25	
Xylenes (total)	31.8	1.0	µg/L	30.0		106	0-200	0.376		
Surrogate: 1,2-Dichloroethane-d4	25.3		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	26.1		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	25.6		µg/L	25.0		102	70-130			

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**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B295874 - SW-846 3510C</b>									
<b>Blank (B295874-BLK1)</b>					Prepared: 12/01/21 Analyzed: 12/02/21				
TPH (C9-C36)	ND	0.20	mg/L						
Surrogate: 2-Fluorobiphenyl	0.0582		mg/L	0.100		58.2 40-140			
<b>LCS (B295874-BS1)</b>					Prepared: 12/01/21 Analyzed: 12/02/21				
TPH (C9-C36)	0.651	0.20	mg/L	1.00		65.1 40-140			
Surrogate: 2-Fluorobiphenyl	0.0554		mg/L	0.100		55.4 40-140			
<b>LCS Dup (B295874-BSD1)</b>					Prepared: 12/01/21 Analyzed: 12/02/21				
TPH (C9-C36)	0.661	0.20	mg/L	1.00		66.1 40-140	1.56	30	
Surrogate: 2-Fluorobiphenyl	0.0554		mg/L	0.100		55.4 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
<b>Batch B295876 - SW-846 3005A Dissolved</b>										
<b>Blank (B295876-BLK1)</b>				Prepared: 12/01/21 Analyzed: 12/02/21						
Lead	ND	0.50	µg/L							
<b>LCS (B295876-BS1)</b>				Prepared: 12/01/21 Analyzed: 12/02/21						
Lead	557	5.0	µg/L	500		111	80-120			
<b>LCS Dup (B295876-BSD1)</b>				Prepared: 12/01/21 Analyzed: 12/02/21						
Lead	521	5.0	µg/L	500		104	80-120	6.70	20	
<b>Duplicate (B295876-DUP1)</b>				<b>Source: 21K1800-06</b>			Prepared: 12/01/21 Analyzed: 12/02/21			
Lead	ND	0.50	µg/L		ND			NC	20	
<b>Matrix Spike (B295876-MS1)</b>				<b>Source: 21K1800-06</b> Prepared: 12/01/21 Analyzed: 12/02/21						
Lead	517	5.0	µg/L	500	ND	103	75-125			

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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
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.

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<b>SW-846 6020B in Water</b>	
Lead	CT,NH,NY,NC,ME,VA
<b>SW-846 8260D in Water</b>	
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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
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	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
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	12/14/2021
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

Company Name: Aptim Environmental & Infrastructure, Inc.

Address: 150 Royall Street, Canton, MA 02021

Phone: 617-794-1767

Project Name: Textron Providence

Project Location: 333 Adelaide Avenue, Providence, RI

Project Number: 631010697

Project Manager: Catherine Joe

Con-Test Bid: PO 24551 216859

Invoice Recipient: Catherine Joe

Sampled By: Dan Leahy 617-212-8276

Requested Turnaround Time:  7-Day  10-Day  15-Day

Other:  Rush-Approval Required  3-Day  4-Day

Data Delivery:  PDF  EXCEL  Other: Equis format

Enhanced Data Package Required:

Email To: [catherine.joe@aptim.com](mailto:catherine.joe@aptim.com)

Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	CW-01-20211129	11/29/21	0730		G	GW	U
2	CW-02-20211129	11/29/21	0800		G	GW	U
3	CW-06-20211129	11/29/21	0900		G	GW	U
4	CW-06-2021129FD	11/29/21	0900		G	GW	U
5	TB-1-20211129	11/29/21	1348		G	GW	U
6	MW-109D-20211129	11/29/21	0945		G	GW	U
7	GZA-3-20211129	11/29/21	1030		G	GW	U
8	GZA-3-20211129FD	11/29/21	1030		G	GW	U
9	MW-207S-20211129	11/29/21	1400		G	GW	U
10	MW-207D-20211129	11/29/21	1430		G	GW	U

Comments: GIS Key to catherine.joe@aptim.com

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

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
<i>[Signature]</i>	11/30/21 1350	<i>[Signature]</i>	11/30/21 1350
<i>[Signature]</i>	11-30-21 1350	<i>[Signature]</i>	11-30-21 1450
<i>[Signature]</i>	11-30-21 1450	<i>[Signature]</i>	11/30/21 1600
<i>[Signature]</i>	11/30/21 1600	<i>[Signature]</i>	11/30/21 1700
<i>[Signature]</i>	11/30/21 1700	<i>[Signature]</i>	11/30/21 1700

**Detection Limit Requirements**

MCP Analytical Certification Form Required

RCP Analytical Certification Form Required

MA State DW Form Required

PWSID # \_\_\_\_\_

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

# of Containers: \_\_\_\_\_

Preservation Code: \_\_\_\_\_

Container Code: \_\_\_\_\_

**Disposited Matrix Samples**

Field Filtered

Lab to Filter

**Orthophosphate Samples**

Field Filtered

Lab to Filter

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

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

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

ANALYSIS REQUESTED	EPA 8260C (VOCs)	Total Petroleum Hydrocarbons	Dissolved Lead
	2	2	
	2	2	
	2	2	
	2	2	
	2	2	
	2	2	
	2	2	
	2	2	
	2	2	
	2	2	





21K1800

**Company Name:** Aptim Environmental & Infrastructure, Inc.  
**Address:** 150 Royall Street, Canton, MA 02021  
**Phone:** 617-794-1767  
**Project Name:** Textron Providence  
**Project Location:** 333 Adelaide Avenue, Providence, RI  
**Project Number:** 631010697  
**Project Manager:** Catherine Joe  
**Con-Test Bid:** PO 243551 216859  
**Invoice Recipient:** Catherine Joe  
**Sampled By:** Dan Leahy 617-212-8276

**Requested Turnaround Time**  
7-Day  10-Day   
Other: \_\_\_\_\_  
**Rush-Approval Required**  
1-Day  3-Day   
2-Day  4-Day   
**Data Delivery**  
Format: PDF  EXCEL   
Other: \_\_\_\_\_  
Enhanced Data Package Required:   
Email To: catherine.joe@aptim.com  
Fax To #: \_\_\_\_\_

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
21	MW-112-20211130	11/30/21	0900		G	GW	U
22	MW-209D-20211130	11/30/21	0930		G	GW	U
23	MW-218D-20211130	11/30/21	1000		G	GW	U
24	MW-218S-20211130	11/30/21	1030		G	GW	U
25	MW-116D-20211130	11/30/21	1300		G	GW	U
26	MW-116S-20211130	11/30/21	1340		G	GW	U

**ANALYSIS REQUESTED**

EPA 8260C (VOCs)							
Total Petroleum Hydrocarbons							
Dissolved Lead							

- # of Containers**
- 2 Preservation Code**
- 3 Container Code**
- Dissolved Metals Samples**
- Field Filtered
  - Lab to Filter
- Orthophosphate Samples**
- Field Filtered
  - Lab to Filter

- 1 Matrix Codes:**  
GW = Ground Water  
WW = Waste Water  
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V = Vial  
S = Summa Canister  
T = Tedlar Bag  
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

**Program Information**

- MCP Analytical Certification Form Required
  - RCP Analysis Certification Form Required
  - MA State DW Form Required
- PWSID # \_\_\_\_\_
- NELAC and AIHA-LAP, LLC Accredited

Relinquished by: (signature)	Date/Time: 11/30/21 1350
Received by: (signature)	Date/Time: 11-30-21 1350
Relinquished by: (signature)	Date/Time: 11-30-21 1450
Received by: (signature)	Date/Time: 11/30/21 1520
Relinquished by: (signature)	Date/Time: 11/30/21 1700
Received by: (signature)	Date/Time: 11/30/21 1700

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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



**con-test**<sup>®</sup>  
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 Aptem Env  
 Received By [Signature] Date 11/30/21 Time 1700

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 # 3 Actual Temp -20  
 By Blank # \_\_\_\_\_ Actual Temp \_\_\_\_\_

Was Custody Seal Intact? [Signature] Were Samples Tampered with? n/a  
 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? T On COC? T  
 Do all samples have the proper pH? Acid T Base n/a

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.	4	1 Liter Plastic	16 oz Amb.
HCL-	46	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: