



APTIM
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June 18, 2020

Project # 631010697

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

**Subject: Status Report: December 2019 through May 2020 Activities
Former Gorham Manufacturing Facility
333 Adelaide Avenue, Providence, RI
Site Remediation Case No. 97-030**

Dear Mr. Martella:

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

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

This status report describes groundwater monitoring activities conducted at the site by APTIM. This report includes results of groundwater sampling and analysis conducted in February and May of 2020.

Field Activities

Limited VOC Sampling Activities February and May 2020

Limited groundwater gauging and sampling was conducted on February 5, 2020 and May 26 and 27, 2020. 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-D) from the three monitoring wells (MW-112, MW-116D, and MW-116S) on February 5 and May 26 and 27, 2020. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Semi-Annual Groundwater Sampling Activities May 2020

The monitoring wells that comprise the larger semi-annual groundwater monitoring program were monitored for field parameters and sampled for analysis on May 26 and 27, 2020.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on May 26 and 27, 2020. Field measurements included oxidation/reduction potential (ORP), dissolved oxygen (DO), pH, temperature, and specific conductance (SC). Groundwater elevation and LNAPL thickness measurements were also collected. Field parameter and groundwater elevation results are presented in **Tables 1** and **2**, respectively.

Semi-Annual Groundwater Sampling

On May 26 and 27, 2020 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 8015C) from monitoring well CW-6 (CW-6 FD). Samples were also collected for dissolved lead analysis (EPA Method 6020B) from monitoring wells MW-109D and GZA-3. One duplicate sample was also collected from GZA-3 (GZA-3 FD) for lead analysis. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Summary of Analytical Data

A summary of the analytical data associated with the groundwater sampling conducted on February 5, and May 26 and 27, 2020 is contained in **Table 3**. A copy of each laboratory analytical report is also attached to this report. Measured PCE concentrations were below the treatment goal of 7,700 µg/L in all wells sampled during these sampling events. During this reporting period the highest PCE concentrations were detected in wells MW-218D at 7400 µg/L, MW-101S and its duplicate (MW-101S FD) at 5700/5500 µg/L, respectively, and MW-201D at 4400 µg/L on May 26, 2020.

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 well MW-209D on May 26, 2020. (Note that due to sample dilution by the laboratory, the analytical

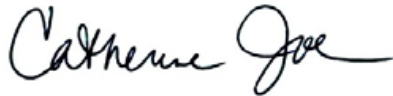
reporting limits for vinyl chloride, in wells MW-112 and MW-209D on May 26, 2020, were above the compound specific compliance standard).

Future Activities

Future limited sampling will be conducted in August 2020 and the larger semi-annual sampling event will be conducted in November 2020.

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

Respectfully submitted,
Aptim Environmental & Infrastructure, LLC



Catherine Joe
Project Manager

Attachments

Table 1 – Summary Field Parameters

Table 2 – Groundwater Elevation Data

Table 3 – Groundwater Analytical Results Detected Compounds – December 2019 – May 2020

Table 4 – Groundwater Analytical Results in Compliance Wells – December 2019 – May 2020

Figure 1 – Site Plan

Figure 2 – Injection Well Locations

Attachment A - Laboratory Analytical Reports

cc: Craig Roy, RIDEM OWR - email
Greg Simpson, Textron - email
Herbert Colby, Wood PLC - email
Robert Azar, Providence Redevelopment Agency - email
Jeff Morgan, Stop & Shop - email
Ronald Ruth, Sherin and Lodgen - email

CERTIFICATIONS

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

I, Catherine Joe, as an authorized representative of Aptim Environmental & Infrastructure, Inc., and the person responsible for the preparation of this Status Report dated June 18, 2020, certify that the information contained in this report is complete and accurate to the best of my knowledge.



Catherine Joe
Project Manager

6/18/2020

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.



Gregory L. Simpson
Project Manager

JUNE 19 2020

Date:

TABLES

Table 1
Summary Field Parameters
December 2019 - May 2020

Former Gorham Manufacturing Facility
 Providence, Rhode Island

Location	Date	Dissolved Oxygen mg/L	Oxidation Reduction Potential mV	pH unit	Specific Conductivity ms/cm	Temperature C°
MW-101D	05/26/2020	0.15	57.8	6.03	0.026	14.79
MW-101S	05/26/2020	0.3	-34.9	6.24	2.306	14.61
MW-112	05/26/2020	6.76	138.9	6.12	1.27	14.47
MW-116D	05/27/2020	4.11	115.2	6.28	0.408	14.85
MW-116S	05/27/2020	6.52	101	6.41	0.15	15.1
MW-201D	05/26/2020	6.18	112.5	6.21	0.546	15.55
MW-202D	05/26/2020	0.21	48.3	6.16	0.087	15.58
MW-202S	05/26/2020	0.78	51.8	6.04	0.187	15.46
MW-207D	05/26/2020	0.57	80.2	7.49	0.029	15.77
MW-207S	05/26/2020	0.37	20	6.67	0.065	15.62
MW-209D	05/26/2020	6.72	130.1	6.21	0.541	14.88
MW-216D	05/26/2020	0.55	-67.9	6.73	0.787	15.56
MW-216S	05/26/2020	1.84	-118.1	6.51	0.785	15.66
MW-217D	05/27/2020	2.55	137.9	6.73	0.697	15.56
MW-217S	05/27/2020	0.54	-18.1	6.51	0.685	14.08
MW-218D	05/26/2020	5.74	160.7	5.83	0.874	14.25
MW-218S	05/26/2020	4.04	158.4	5.63	0.528	14.52

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

TABLE 2
GROUNDWATER ELEVATION DATA
(December 2019 - May 2020)
Former Gorham Manufacturing Facility
Providence, Rhode Island

Location	Date	Reference Elevation (Feet)	Depth to Water (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Groundwater Elevation (Feet)	Note
CW-01	5/26/2020	99.52	25.14	--	--	74.38	DTB = 54.59 FT
CW-02	5/26/2020	98.86	24.38	--	--	74.48	DTB = 54.93 FT
CW-06	5/27/2020	99.52	24.78	--	--	74.74	DTB = 33.29 FT
GZA-3	5/27/2020	NA	17.62	--	--	NA	DTB = 22.03 FT
MW-101D	5/26/2020	98.91	23.34	--	--	75.57	DTB = 46.17 FT
MW-101S	5/26/2020	98.90	24.55	--	--	74.35	DTB = 28.58 FT
MW-109D	5/27/2020	NA	19.05	--	--	NA	DTB = 29.03 FT
MW-112	2/5/2020	100.63	26.67	--	--	73.96	DTB = 34.62 FT
	5/26/2020	100.63	26.30	--	--	74.33	DTB = 34.95 FT
MW-116D	2/5/2020	98.92	24.97	--	--	73.95	DTB = 44.24 FT
	5/27/2020	98.92	24.35	--	--	74.57	DTB = 44.33 FT
MW-116S	2/5/2020	99.40	25.85	--	--	73.55	DTB = 28.68 FT
	5/27/2020	99.40	24.71	--	--	74.69	DTB = 28.95 FT
MW-201D	5/26/2020	98.80	24.33	--	--	74.47	DTB = 47.78 FT
MW-202D	5/26/2020	98.17	23.73	--	--	74.44	DTB = 46.75 FT
MW-202S	5/26/2020	98.06	23.66	--	--	74.40	DTB = 38.05 FT
MW-207D	5/26/2020	98.18	23.73	--	--	74.45	DTB = 50.78 FT
MW-207S	5/26/2020	98.28	23.85	--	--	74.43	DTB = 36.26 FT
MW-209D	5/26/2020	99.90	25.81	--	--	74.09	DTB = 62.77 FT
MW-216D	5/26/2020	98.69	25.08	--	--	73.61	DTB = 39.08 FT
MW-216S	5/26/2020	99.58	29.88	--	--	69.70	DTB = 25.08 FT
MW-217D	5/27/2020	98.65	24.58	--	--	74.07	DTB = 47.08 FT
MW-217S	5/27/2020	98.71	24.57	--	--	74.14	DTB = 26.28 FT
MW-218D	5/26/2020	99.67	25.20	--	--	74.47	DTB = 46.88 FT
MW-218S	5/26/2020	99.61	25.12	--	--	74.49	DTB = 29.55 FT
MW-220S	5/26/2020	99.41	25.02	--	--	74.39	DTB = 31.97 FT
MW-221S	5/26/2020	98.92	24.27	--	<0.01	74.65	DTB = 31.83 FT

Notes:

Feet = feet measured below ground surface

NA = Not Available

NM = Not Measured

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2019 - May 2020

Former Gorham Manufacturing Facility
 Providence, Rhode Island

	Location Code	CW-01	CW-02	CW-06		GZA-3		MW-101D	MW-101S		MW-109D
	Sample ID	CW-01-20200526	CW-02-20200526	CW-06-20200527	CW-06-20200527 FD	GZA-3-20200527	GZA-3-20200527 FD	MW-101D-20200526	MW-101S-20200526	MW-101S-20200526 FD	MW-109D-20200527
	Sample Date	5/26/2020	5/26/2020	5/27/2020	5/27/2020	5/27/2020	5/27/2020	5/26/2020	5/26/2020	5/26/2020	5/27/2020
	Sample Purpose	N	N	N	FD	N	FD	N	N	FD	N
Parameter	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOLATILES											
1,1,1-Trichloroethane	µg/L	< 10	2.3	---	---	< 1	---	< 1	< 20	< 100	< 1
1,1-Dichloroethene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 20	< 100	< 1
1,2,4-Trimethylbenzene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 20	< 100	< 1
1,3,5-Trimethylbenzene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 20	< 100	< 1
1,4-Dioxane	µg/L	< 500	< 50	---	---	< 50	---	< 50	< 1000	< 5000	< 50
cis-1,2-Dichloroethene	µg/L	72	< 1	---	---	< 1	---	< 1	24	< 100	< 1
Ethylbenzene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 20	< 100	< 1
m,p-xylene	µg/L	< 20	< 2	---	---	< 2	---	< 2	< 40	< 200	< 2
Methyltert-butylether	µg/L	< 10	1.9	---	---	< 1	---	< 1	< 20	< 100	< 1
Naphthalene	µg/L	< 20	< 2	---	---	< 2	---	< 5	< 40	< 200	< 2
o-Xylene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 20	< 100	< 1
Tetrachloroethene	µg/L	< 10	< 1	---	---	< 1	---	< 1	5700	5500	< 1
Trichloroethene	µg/L	570	1.5	---	---	< 1	---	< 1	27	< 100	< 1
Vinyl chloride	µg/L	< 20	< 2	---	---	8.5	---	< 2	< 40	< 200	< 2
Xylene (total)	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 20	< 100	< 1
TPH											
TPH	mg/L	---	---	12	14	---	---	---	---	---	---
METALS, DISSOLVED											
Lead	µg/L	---	---	---	---	1.5	2.1	---	---	---	< 0.5

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

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2019 - May 2020

Former Gorham Manufacturing Facility
 Providence, Rhode Island

	Location Code	MW-112		MW-116D		MW-116S		MW-201D	MW-202D	MW-202S	MW-207D
	Sample ID	MW-112-20200205	MW-112-20200526	MW-116D-20200205	MW-116D-20200527	MW-116S-20200205	MW-116S-20200527	MW-201D-20200526	MW-202D-20200526	MW-202S-20200526	MW-207D-20200526
	Sample Date	2/5/2020	5/26/2020	2/5/2020	5/27/2020	2/5/2020	5/27/2020	5/26/2020	5/26/2020	5/26/2020	5/26/2020
	Sample Purpose	N	N	N	N	N	N	N	N	N	N
Parameter	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOLATILES											
1,1,1-Trichloroethane	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1
1,1-Dichloroethene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1
1,2,4-Trimethylbenzene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1
1,3,5-Trimethylbenzene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1
1,4-Dioxane	µg/L	< 50	< 100	< 50	< 50	76	< 50	< 2500	< 50	< 50	< 50
cis-1,2-Dichloroethene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1
Ethylbenzene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1
m,p-xylene	µg/L	< 2	< 4	< 2	< 2	< 2	< 2	< 100	< 2	< 2	< 2
Methyltert-butylether	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1
Naphthalene	µg/L	< 2	< 4	< 2	< 2	< 2	< 2	< 100	< 5	< 5	< 5
o-Xylene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1
Tetrachloroethene	µg/L	93	82	< 1	< 1	< 1	< 1	4400	4.1	9.7	1.4
Trichloroethene	µg/L	16	7.2	< 1	< 1	< 1	< 1	490	< 1	< 1	< 1
Vinyl chloride	µg/L	< 2	< 4	< 2	< 2	< 2	< 2	< 100	< 2	< 2	< 2
Xylene (total)	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1
TPH											
TPH	mg/L	---	---	---	---	---	---	---	---	---	---
METALS, DISSOLVED											
Lead	µg/L	---	---	---	---	---	---	---	---	---	---

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

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2019 - May 2020

Former Gorham Manufacturing Facility
 Providence, Rhode Island

	Location Code	MW-207S	MW-209D	MW-216D	MW-216S	MW-217D	MW-217S	MW-218D	MW-218S
	Sample ID	MW-207S-20200526	MW-209D-20200526	MW-216D-20200526	MW-216S-20200526	MW-217D-20200527	MW-217S-20200527	MW-218D-20200526	MW-218S-20200526
	Sample Date	5/26/2020	5/26/2020	5/26/2020	5/26/2020	5/27/2020	5/27/2020	5/26/2020	5/26/2020
	Sample Purpose	N	N	N	N	N	N	N	N
Parameter	Units	Result	Result	Result	Result	Result	Result	Result	Result
VOLATILES									
1,1,1-Trichloroethane	µg/L	< 1	< 2	< 1	< 2	< 1	< 1	< 20	< 1
1,1-Dichloroethene	µg/L	< 1	4	< 1	< 2	< 1	< 1	< 20	< 1
1,2,4-Trimethylbenzene	µg/L	< 1	< 2	< 1	12	< 1	< 1	< 20	< 1
1,3,5-Trimethylbenzene	µg/L	< 1	< 2	< 1	4.9	< 1	< 1	< 20	< 1
1,4-Dioxane	µg/L	< 50	< 100	< 50	< 100	< 50	< 50	< 1000	< 50
cis-1,2-Dichloroethene	µg/L	< 1	39	< 1	66	4.1	< 1	< 20	< 1
Ethylbenzene	µg/L	< 1	< 2	< 1	2.7	< 1	< 1	< 20	< 1
m,p-xylene	µg/L	< 2	< 4	< 2	4	< 2	< 2	< 40	< 2
Methyltert-butylether	µg/L	< 1	< 2	< 1	< 2	< 1	< 1	< 20	< 1
Naphthalene	µg/L	< 5	< 4	< 2	16	< 2	< 2	< 40	< 2
o-Xylene	µg/L	< 1	< 2	< 1	8.3	< 1	< 1	< 20	< 1
Tetrachloroethene	µg/L	1.9	360	< 1	< 2	1.1	7.5	7400	21
Trichloroethene	µg/L	< 1	55	< 1	< 2	6.4	1.2	75	< 1
Vinyl chloride	µg/L	< 2	< 4	< 2	< 4	< 2	< 2	< 40	< 2
Xylene (total)	µg/L	< 1	< 2	< 1	12	< 1	< 1	< 20	< 1
TPH									
TPH	mg/L	---	---	---	---	---	---	---	---
METALS, DISSOLVED									
Lead	µg/L	---	---	---	---	---	---	---	---

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

TABLE 4
Groundwater Analytical Results
December 2019 - May 2020

Former Gorham Manufacturing Facility
 Providence, Rhode Island

Mashapaug Pond Compliance Wells				
Sample ID	GZA-3	GZA-3	MW-109D	Compliance
Date Collected	5/27/2020	5/27/2020	5/27/2020	Standard ¹
CONSTITUENT	Primary	Duplicate 1	Primary	
Metals (mg/L)				
Lead	0.0015	0.0021	<0.0005	0.03
VOCs (µg/L)				
1,1-Dichloroethane	< 1	---	< 1	50,000
1,1-Dichloroethene	< 1	---	< 1	50,000
cis-1,2-Dichloroethene	< 1	---	< 1	50,000
Methyl tert-butyl ether	< 1	---	< 1	50,000
Tetrachloroethene	< 1	---	< 1	5,000
Trichloroethene	< 1	---	< 1	20,000
Vinyl chloride	8.5	---	< 2	1,200

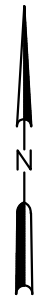
TPH Remediation Area Well			
Sample ID	CW-06	CW-06	Compliance
Date Collected	5/27/2020	5/27/2020	Standard ¹
CONSTITUENT	Primary	Duplicate	
TPH (mg/L)			
TPH	12	14	20

Sewer Interceptor Area Wells			
Sample ID	CW-01	CW-02	Compliance
Date Collected	5/26/2020	5/26/2020	Standard ²
CONSTITUENT	Primary	Primary	
VOCs (µg/L)			
1,1-Dichloroethane	<10	<1	120,000
1,1-Dichloroethene	<10	<1	23,000
cis-1,2-Dichloroethene	72	<1	69,000
trans-1,2-Dichloroethene	<10	<1	79,000
Tetrachloroethene	<10	<1	NS
Trichloroethene	570	1.5	87,000

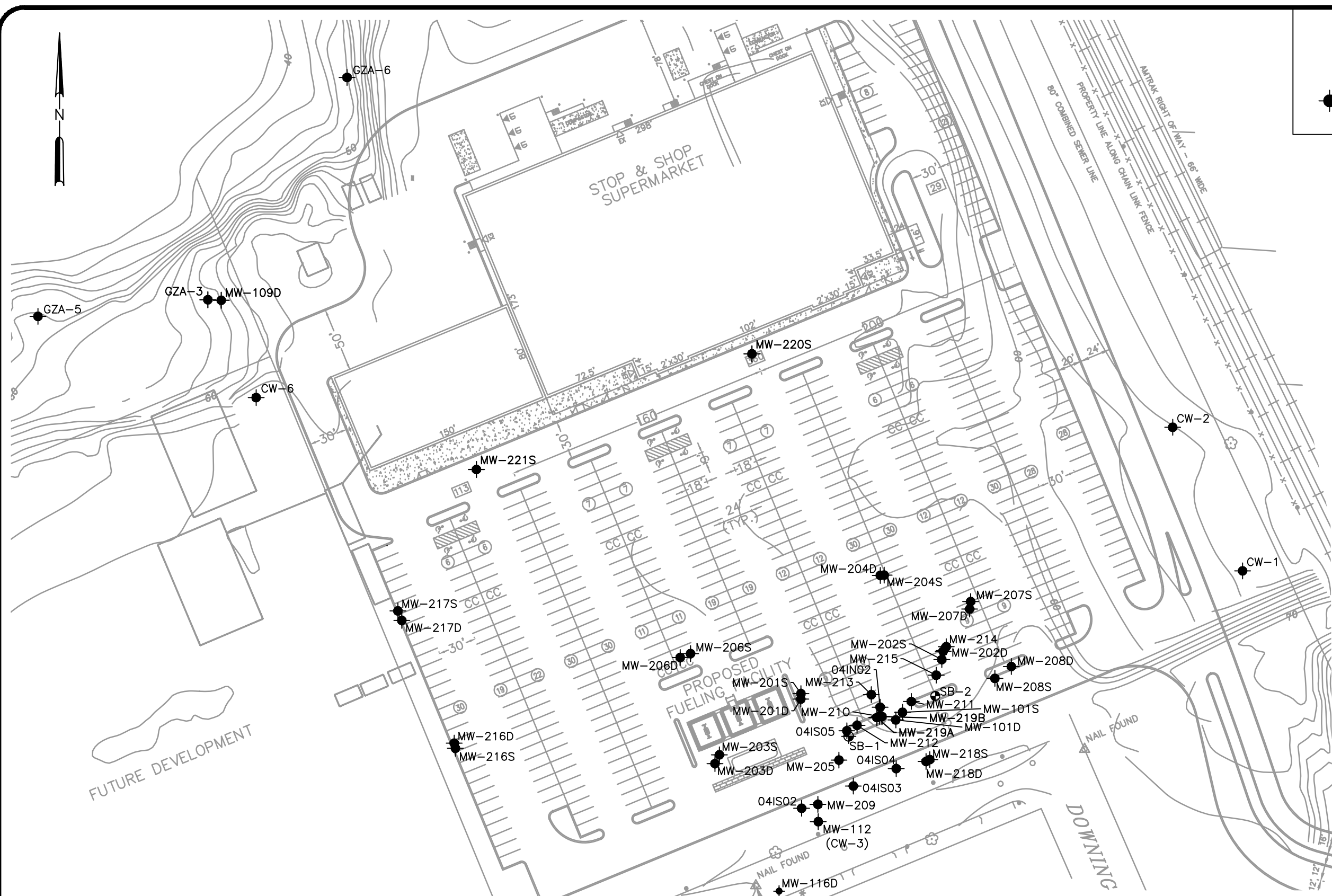
Adelaide Avenue Wells					
Sample ID	MW-112	MW-112	MW-209D	MW-218S	Compliance
Date Collected	2/5/2020	5/26/2020	5/26/2020	5/26/2020	Standard ³
CONSTITUENT	Primary	Primary	Primary	Primary	
VOCs (µg/L)					
1,1-Dichloroethane	< 1	< 2	< 2	<1	2,400
1,1-Dichloroethene	< 1	< 2	4	<1	7
cis-1,2-Dichloroethene	< 1	< 2	39	<1	1,900
Methyl tert-butyl ether	< 1	< 2	<2	<1	5,000
Tetrachloroethene	93	82	360	21	150
Trichloroethene	16	7.2	55	<1	540
Vinyl chloride	< 2	< 4	<4	<2	2

- These site specific compliance standards were taken from the approved RAWP dated April 1, 2001 and/or the RIDEM Remediation Regulations.
 Note: The standard for Methyl tert-butyl ether is the Massachusetts Department of Environmental Protection (MassDEP) Method 1 GW-3 standard (310 CMR 40.0974 (2), 12/14/07. The use of the MassDEP Method 1 GW-3 standard is consistent with the approach used in the April 1, 2001 RAWP.
 - These compliance standards taken from Table 5 - Upper Concentration Limits for GB Groundwater, RIDEM Remediation Regulations.
 - These compliance standards taken from Table 4 - GB Groundwater Objectives of the RIDEM Remediation Regulations or in the case of vinyl chloride the compliance standard was taken from Table 3 of the Remediation Regulations and for chloroform the compliance standard was calculated from the algorithm in Appendix F of the Remediation Regulations (calculations attached as Appendix C of Status Report dated September 18, 2007.
- NS = Indicates that no applicable standard exists. Compound does not have a lower explosive limit (LEL).
 < = Less than the laboratory reporting limit
 µg/L = Micrograms per liter, parts per billion
 mg/L = Milligrams per liter, parts per million
 TPH = Total Petroleum Hydrocarbons
 VOCs = Volatile organic compounds
 -- = Not analyzed for

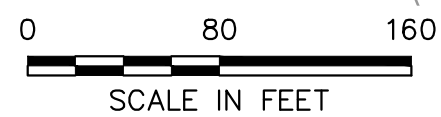
FIGURES



LEGEND
 ● MW-101S MONITORING WELL



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



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

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

ATTACHMENT A
LABORATORY REPORTS

February 10, 2020

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

Project Location: 333 Adelaide Avenue, Providence, RI
Client Job Number:
Project Number: 631010697
Laboratory Work Order Number: 20B0249

Enclosed are results of analyses for samples received by the laboratory on February 6, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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

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

REPORT DATE: 2/10/2020

PURCHASE ORDER NUMBER: 835493

PROJECT NUMBER: 631010697

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20B0249

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

PROJECT LOCATION: 333 Adelaide Avenue, Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-112-20200205	20B0249-01	Ground Water		SW-846 8260C-D	
MW-116D-20200205	20B0249-02	Ground Water		SW-846 8260C-D	
MW-116S20200205	20B0249-03	Ground Water		SW-846 8260C-D	
TB-1-20200205	20B0249-04	Trip Blank 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:

1,2,3-Trichlorobenzene

20B0249-01[MW-112-20200205], 20B0249-02[MW-116D-20200205], 20B0249-03[MW-116S20200205], 20B0249-04[TB-1-20200205], B251771-BLK1, B251771-BS1, B251771-BSD1, S045442-CCV1

1,2,4-Trichlorobenzene

20B0249-01[MW-112-20200205], 20B0249-02[MW-116D-20200205], 20B0249-03[MW-116S20200205], 20B0249-04[TB-1-20200205], B251771-BLK1, B251771-BS1, B251771-BSD1, S045442-CCV1

Naphthalene

20B0249-01[MW-112-20200205], 20B0249-02[MW-116D-20200205], 20B0249-03[MW-116S20200205], 20B0249-04[TB-1-20200205], B251771-BLK1, B251771-BS1, B251771-BSD1, S045442-CCV1

V-20

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

Analyte & Samples(s) Qualified:

Bromomethane

B251771-BS1, B251771-BSD1, S045442-CCV1

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

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



Lisa A. Worthington
Technical Representative

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 20B0249

Date Received: 2/6/2020

Field Sample #: MW-112-20200205

Sampled: 2/5/2020 09:30

Sample ID: 20B0249-01

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	2/7/20	2/7/20 19:04	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 20B0249

Date Received: 2/6/2020

Field Sample #: MW-112-20200205

Sampled: 2/5/2020 09:30

Sample ID: 20B0249-01

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	2/7/20	2/7/20 19:04	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Tetrachloroethylene	93	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Trichloroethylene	16	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 19:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	2/7/20 19:04
Toluene-d8	98.2	70-130	2/7/20 19:04
4-Bromofluorobenzene	92.8	70-130	2/7/20 19:04

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 20B0249

Date Received: 2/6/2020

Field Sample #: MW-116D-20200205

Sampled: 2/5/2020 11:30

Sample ID: 20B0249-02

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	2/7/20	2/7/20 18:12	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 20B0249

Date Received: 2/6/2020

Field Sample #: MW-116D-20200205

Sampled: 2/5/2020 11:30

Sample ID: 20B0249-02

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	2/7/20	2/7/20 18:12	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	97.0	70-130	
4-Bromofluorobenzene	91.5	70-130	

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 20B0249

Date Received: 2/6/2020

Field Sample #: MW-116S20200205

Sampled: 2/5/2020 10:30

Sample ID: 20B0249-03

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	2/7/20	2/7/20 18:38	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 20B0249

Date Received: 2/6/2020

Field Sample #: MW-116S20200205

Sampled: 2/5/2020 10:30

Sample ID: 20B0249-03

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	2/7/20	2/7/20 18:38	MFF
1,4-Dioxane	76	50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 18:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	2/7/20 18:38
Toluene-d8	97.0	70-130	2/7/20 18:38
4-Bromofluorobenzene	92.9	70-130	2/7/20 18:38

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 20B0249

Date Received: 2/6/2020

Field Sample #: TB-1-20200205

Sampled: 2/5/2020 00:00

Sample ID: 20B0249-04

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF

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

Project Location: 333 Adelaide Avenue, Providence

Sample Description:

Work Order: 20B0249

Date Received: 2/6/2020

Field Sample #: TB-1-20200205

Sampled: 2/5/2020 00:00

Sample ID: 20B0249-04

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	2/7/20	2/7/20 13:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	2/7/20 13:20
Toluene-d8	98.6	70-130	2/7/20 13:20
4-Bromofluorobenzene	94.8	70-130	2/7/20 13:20

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20B0249-01 [MW-112-20200205]	B251771	5	5.00	02/07/20
20B0249-02 [MW-116D-20200205]	B251771	5	5.00	02/07/20
20B0249-03 [MW-116S20200205]	B251771	5	5.00	02/07/20
20B0249-04 [TB-1-20200205]	B251771	5	5.00	02/07/20

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 B251771 - SW-846 5030B

Blank (B251771-BLK1)

Prepared & Analyzed: 02/07/20

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							

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 B251771 - SW-846 5030B

Blank (B251771-BLK1)

Prepared & Analyzed: 02/07/20

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	24.8		µg/L	25.0		99.3	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		95.9	70-130			

LCS (B251771-BS1)

Prepared & Analyzed: 02/07/20

Acetone	103	50	µg/L	100		103	70-160			†
Acrylonitrile	9.81	5.0	µg/L	10.0		98.1	70-130			
tert-Amyl Methyl Ether (TAME)	9.17	0.50	µg/L	10.0		91.7	70-130			
Benzene	10.8	1.0	µg/L	10.0		108	70-130			
Bromobenzene	10.2	1.0	µg/L	10.0		102	70-130			
Bromochloromethane	11.9	1.0	µg/L	10.0		119	70-130			
Bromodichloromethane	10.8	0.50	µg/L	10.0		108	70-130			
Bromoform	10.0	1.0	µg/L	10.0		100	70-130			
Bromomethane	10.6	2.0	µg/L	10.0		106	40-160		V-20	†
2-Butanone (MEK)	102	20	µg/L	100		102	40-160			†
tert-Butyl Alcohol (TBA)	86.0	20	µg/L	100		86.0	40-160			†
n-Butylbenzene	9.59	1.0	µg/L	10.0		95.9	70-130			
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
tert-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.31	0.50	µg/L	10.0		93.1	70-130			
Carbon Disulfide	11.4	5.0	µg/L	10.0		114	70-130			
Carbon Tetrachloride	11.1	5.0	µg/L	10.0		111	70-130			
Chlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	70-130			
Chloroethane	12.1	2.0	µg/L	10.0		121	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B251771 - SW-846 5030B										
LCS (B251771-BS1)										
Prepared & Analyzed: 02/07/20										
Chloroform	11.0	2.0	µg/L	10.0		110	70-130			
Chloromethane	9.84	2.0	µg/L	10.0		98.4	40-160			†
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130			
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.0		102	70-130			
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111	70-130			
Dibromomethane	10.9	1.0	µg/L	10.0		109	70-130			
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
trans-1,4-Dichloro-2-butene	9.88	2.0	µg/L	10.0		98.8	70-130			
Dichlorodifluoromethane (Freon 12)	10.2	2.0	µg/L	10.0		102	40-160			†
1,1-Dichloroethane	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,1-Dichloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
cis-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130			
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	70-130			
1,3-Dichloropropane	10.8	0.50	µg/L	10.0		108	70-130			
2,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	40-130			†
1,1-Dichloropropene	10.6	2.0	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130			
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130			
Diethyl Ether	11.3	2.0	µg/L	10.0		113	70-130			
Diisopropyl Ether (DIPE)	11.4	0.50	µg/L	10.0		114	70-130			
1,4-Dioxane	83.5	50	µg/L	100		83.5	40-130			†
Ethylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
Hexachlorobutadiene	9.74	0.60	µg/L	10.0		97.4	70-130			
2-Hexanone (MBK)	93.2	10	µg/L	100		93.2	70-160			†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.0		105	70-130			
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130			
Methyl Acetate	10.6	1.0	µg/L	10.0		106	70-130			
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.0		105	70-130			
Methyl Cyclohexane	11.0	1.0	µg/L	10.0		110	70-130			
Methylene Chloride	11.4	5.0	µg/L	10.0		114	70-130			
4-Methyl-2-pentanone (MIBK)	89.5	10	µg/L	100		89.5	70-160			†
Naphthalene	7.19	2.0	µg/L	10.0		71.9	40-130			V-05 †
n-Propylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
Styrene	10.1	1.0	µg/L	10.0		101	70-130			
1,1,1,2-Tetrachloroethane	11.4	1.0	µg/L	10.0		114	70-130			
1,1,2,2-Tetrachloroethane	11.4	0.50	µg/L	10.0		114	70-130			
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Tetrahydrofuran	11.8	10	µg/L	10.0		118	70-130			
Toluene	10.7	1.0	µg/L	10.0		107	70-130			
1,2,3-Trichlorobenzene	7.36	5.0	µg/L	10.0		73.6	70-130			V-05
1,2,4-Trichlorobenzene	7.99	1.0	µg/L	10.0		79.9	70-130			V-05
1,3,5-Trichlorobenzene	8.63	1.0	µg/L	10.0		86.3	70-130			
1,1,1-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130			
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130			
Trichloroethylene	11.1	1.0	µg/L	10.0		111	70-130			
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101	70-130			
1,2,3-Trichloropropane	10.0	2.0	µg/L	10.0		100	70-130			

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 B251771 - SW-846 5030B

LCS (B251771-BS1)

Prepared & Analyzed: 02/07/20

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.9	1.0	µg/L	10.0		119	70-130			
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3,5-Trimethylbenzene	9.86	1.0	µg/L	10.0		98.6	70-130			
Vinyl Chloride	9.94	2.0	µg/L	10.0		99.4	40-160			†
m+p Xylene	20.8	2.0	µg/L	20.0		104	70-130			
o-Xylene	10.7	1.0	µg/L	10.0		107	70-130			
Xylenes (total)	ND	1.0	µg/L	30.0			0-200			
Surrogate: 1,2-Dichloroethane-d4	25.1		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.0		96.4	70-130			

LCS Dup (B251771-BSD1)

Prepared & Analyzed: 02/07/20

Acetone	113	50	µg/L	100		113	70-160	8.72	25	†
Acrylonitrile	10.4	5.0	µg/L	10.0		104	70-130	6.32	25	
tert-Amyl Methyl Ether (TAME)	9.37	0.50	µg/L	10.0		93.7	70-130	2.16	25	
Benzene	10.8	1.0	µg/L	10.0		108	70-130	0.371	25	
Bromobenzene	10.3	1.0	µg/L	10.0		103	70-130	1.17	25	
Bromochloromethane	11.7	1.0	µg/L	10.0		117	70-130	1.78	25	
Bromodichloromethane	11.2	0.50	µg/L	10.0		112	70-130	3.83	25	
Bromoform	10.3	1.0	µg/L	10.0		103	70-130	3.05	25	
Bromomethane	10.3	2.0	µg/L	10.0		103	40-160	3.25	25	V-20 †
2-Butanone (MEK)	110	20	µg/L	100		110	40-160	8.00	25	†
tert-Butyl Alcohol (TBA)	96.3	20	µg/L	100		96.3	40-160	11.3	25	†
n-Butylbenzene	9.84	1.0	µg/L	10.0		98.4	70-130	2.57	25	
sec-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130	2.55	25	
tert-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	1.85	25	
tert-Butyl Ethyl Ether (TBEE)	9.43	0.50	µg/L	10.0		94.3	70-130	1.28	25	
Carbon Disulfide	10.8	5.0	µg/L	10.0		108	70-130	5.33	25	
Carbon Tetrachloride	11.5	5.0	µg/L	10.0		115	70-130	2.92	25	
Chlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	0.550	25	
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	70-130	0.0962	25	
Chloroethane	11.6	2.0	µg/L	10.0		116	70-130	3.71	25	
Chloroform	11.1	2.0	µg/L	10.0		111	70-130	0.272	25	
Chloromethane	9.87	2.0	µg/L	10.0		98.7	40-160	0.304	25	†
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130	1.44	25	
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	2.64	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106	70-130	3.27	25	
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111	70-130	0.541	25	
Dibromomethane	11.0	1.0	µg/L	10.0		110	70-130	0.913	25	
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	1.65	25	
1,3-Dichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130	1.42	25	
1,4-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	2.10	25	
trans-1,4-Dichloro-2-butene	11.1	2.0	µg/L	10.0		111	70-130	11.5	25	
Dichlorodifluoromethane (Freon 12)	10.2	2.0	µg/L	10.0		102	40-160	0.196	25	†
1,1-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130	1.33	25	
1,2-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130	0.734	25	
1,1-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	1.27	25	
cis-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	2.17	25	
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	0.850	25	
1,2-Dichloropropane	11.4	1.0	µg/L	10.0		114	70-130	0.700	25	
1,3-Dichloropropane	10.8	0.50	µg/L	10.0		108	70-130	0.369	25	
2,2-Dichloropropane	10.5	1.0	µg/L	10.0		105	40-130	1.44	25	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B251771 - SW-846 5030B										
LCS Dup (B251771-BSD1)										
Prepared & Analyzed: 02/07/20										
1,1-Dichloropropene	10.8	2.0	µg/L	10.0		108	70-130	2.15	25	
cis-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130	2.36	25	
trans-1,3-Dichloropropene	10.5	0.50	µg/L	10.0		105	70-130	1.25	25	
Diethyl Ether	11.3	2.0	µg/L	10.0		113	70-130	0.355	25	
Diisopropyl Ether (DIPE)	11.3	0.50	µg/L	10.0		113	70-130	0.795	25	
1,4-Dioxane	99.3	50	µg/L	100		99.3	40-130	17.3	50	† ‡
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	1.34	25	
Hexachlorobutadiene	10.0	0.60	µg/L	10.0		100	70-130	2.73	25	
2-Hexanone (MBK)	106	10	µg/L	100		106	70-160	12.4	25	†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130	0.383	25	
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.0		105	70-130	2.41	25	
Methyl Acetate	11.0	1.0	µg/L	10.0		110	70-130	4.07	25	
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0		107	70-130	1.70	25	
Methyl Cyclohexane	11.3	1.0	µg/L	10.0		113	70-130	3.32	25	
Methylene Chloride	11.2	5.0	µg/L	10.0		112	70-130	1.51	25	
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100		101	70-160	11.6	25	†
Naphthalene	7.56	2.0	µg/L	10.0		75.6	40-130	5.02	25	V-05 †
n-Propylbenzene	9.98	1.0	µg/L	10.0		99.8	70-130	1.39	25	
Styrene	10.3	1.0	µg/L	10.0		103	70-130	2.05	25	
1,1,1,2-Tetrachloroethane	11.3	1.0	µg/L	10.0		113	70-130	0.879	25	
1,1,2,2-Tetrachloroethane	11.7	0.50	µg/L	10.0		117	70-130	2.43	25	
Tetrachloroethylene	11.2	1.0	µg/L	10.0		112	70-130	2.35	25	
Tetrahydrofuran	11.3	10	µg/L	10.0		113	70-130	3.99	25	
Toluene	10.6	1.0	µg/L	10.0		106	70-130	1.03	25	
1,2,3-Trichlorobenzene	7.60	5.0	µg/L	10.0		76.0	70-130	3.21	25	V-05
1,2,4-Trichlorobenzene	7.82	1.0	µg/L	10.0		78.2	70-130	2.15	25	V-05
1,3,5-Trichlorobenzene	8.99	1.0	µg/L	10.0		89.9	70-130	4.09	25	
1,1,1-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130	0.00	25	
1,1,2-Trichloroethane	11.3	1.0	µg/L	10.0		113	70-130	0.980	25	
Trichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	1.26	25	
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101	70-130	0.198	25	
1,2,3-Trichloropropane	11.1	2.0	µg/L	10.0		111	70-130	10.2	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.0		117	70-130	1.69	25	
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	2.04	25	
1,3,5-Trimethylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130	0.607	25	
Vinyl Chloride	10.0	2.0	µg/L	10.0		100	40-160	0.702	25	†
m+p Xylene	20.6	2.0	µg/L	20.0		103	70-130	1.40	25	
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130	0.847	25	
Xylenes (total)	ND	1.0	µg/L	30.0			0-200	NC		
Surrogate: 1,2-Dichloroethane-d4	24.7		µg/L	25.0		98.9	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		96.2	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.

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

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The CON-TEST 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	06/30/2020
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020



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 835493
Invoice Recipient: Catherine Joe
Sampled By: DANIEL C. LEVY

http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD

Doc # 381 Rev 0 5 8 2015

39 Spruce Street
 East Longmeadow, MA 01028

Page 1 of 1

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: _____ 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-112-20200205	2/5/20	0930		G	GW	U
2	MW-116D-20200205	2/5/20	1130		G	GW	U
3	MW-116S-20200205	2/5/20	1030		G	GW	U
4	TB-1-20200205	2/5/20	1348		G	LW	

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>	2/6/20 0615	<i>[Signature]</i>	2/6/20 1156
<i>[Signature]</i>	2/6/20 1156	<i>[Signature]</i>	2/6/20 1625
<i>[Signature]</i>	2/6/20 1625	<i>[Signature]</i>	2/6/20 1810

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
 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
 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

3	H	V	EPA 8260C (VOCs)
			3
			3
			3
			2

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 Apfsm

Received By GBR Date 2/6/20 Time 1810

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 # 2 Actual Temp - 4.8
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? T 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 n/a Base n/a

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-	<u>11</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:

June 10, 2020

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: 20E1101

Enclosed are results of analyses for samples received by the laboratory on May 27, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "R. J. McCarthy", is displayed within a light gray rectangular box.

Raymond J. McCarthy
Project Manager

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

REPORT DATE: 6/10/2020

PURCHASE ORDER NUMBER: 835493

PROJECT NUMBER: 631010697

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20E1101

The results of analyses performed on the following samples submitted to the CON-TEST 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-207D-20200526	20E1101-01	Ground Water		SW-846 8260C-D	
MW-207S-20200526	20E1101-02	Ground Water		SW-846 8260C-D	
MW-202D-20200526	20E1101-03	Ground Water		SW-846 8260C-D	
MW-202S-20200526	20E1101-04	Ground Water		SW-846 8260C-D	
MW-101D-20200526	20E1101-05	Ground Water		SW-846 8260C-D	
MW-101S-20200526	20E1101-06	Ground Water		SW-846 8260C-D	
MW-101S-20200526 FD	20E1101-07	Ground Water		SW-846 8260C-D	
MW-201D-20200526	20E1101-09	Ground Water		SW-846 8260C-D	
MW-209D-20200526	20E1101-10	Ground Water		SW-846 8260C-D	
MW-112-20200526	20E1101-11	Ground Water		SW-846 8260C-D	
MW-218S-20200526	20E1101-12	Ground Water		SW-846 8260C-D	
MW-218D-20200526	20E1101-13	Ground Water		SW-846 8260C-D	
CW-01-20200526	20E1101-14	Ground Water		SW-846 8260C-D	
CW-02-20200526	20E1101-15	Ground Water		SW-846 8260C-D	
MW-216S-20200526	20E1101-16	Ground Water		SW-846 8260C-D	
MW-216D-20200526	20E1101-17	Ground Water		SW-846 8260C-D	
MW-217S-20200527	20E1101-18	Ground Water		SW-846 8260C-D	
MW-217D-20200527	20E1101-19	Ground Water		SW-846 8260C-D	
CW-06-20200527	20E1101-20	Ground Water		SW-846 8015C	
CW-06-20200527 FD	20E1101-21	Ground Water		SW-846 8015C	
MW-109D-20200527	20E1101-22	Ground Water		SW-846 6020B	
				SW-846 8260C-D	
GZA-3-20200527	20E1101-23	Ground Water		SW-846 6020B	
				SW-846 8260C-D	
GZA-3-20200527 FD	20E1101-24	Ground Water		SW-846 6020B	
TB-1-20200527	20E1101-25	Trip Blank Water		SW-846 8260C-D	
MW-116D-20200527	20E1101-26	Ground Water		SW-846 8260C-D	
MW-116S-20200527	20E1101-27	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.

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

Qualifications:**O-31**

Sample chromatography does not match reference standard exactly, possibly due to weathering.

Analyte & Samples(s) Qualified:**Fuel Oil #2**

20E1101-20[CW-06-20200527], 20E1101-21[CW-06-20200527 FD]

SW-846 8260C-D

Qualifications:**L-02**

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

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

B258927-BS1, B258927-BSD1, S048897-CCV1

L-07

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

Analyte & Samples(s) Qualified:**Trichlorofluoromethane (Freon 11)**

B258849-BS1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

20E1101-06[MW-101S-20200526], 20E1101-07[MW-101S-20200526 FD], 20E1101-09[MW-201D-20200526], 20E1101-10[MW-209D-20200526], 20E1101-11[MW-112-20200526], 20E1101-13[MW-218D-20200526], 20E1101-14[CW-01-20200526]

RL-13

Elevated reporting limit due to high concentration of non-target compounds.

Analyte & Samples(s) Qualified:

20E1101-16[MW-216S-20200526]

V-05

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

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

20E1101-06[MW-101S-20200526], 20E1101-07[MW-101S-20200526 FD], 20E1101-09[MW-201D-20200526], 20E1101-10[MW-209D-20200526], 20E1101-11[MW-112-20200526], 20E1101-12[MW-218S-20200526], 20E1101-13[MW-218D-20200526], 20E1101-14[CW-01-20200526], 20E1101-15[CW-02-20200526], 20E1101-16[MW-216S-20200526], 20E1101-17[MW-216D-20200526], 20E1101-18[MW-217S-20200527], 20E1101-19[MW-217D-20200527], 20E1101-22[MW-109D-20200527], 20E1101-23[GZA-3-20200527], 20E1101-25[TB-1-20200527], 20E1101-26[MW-116D-20200527], 20E1101-27[MW-116S-20200527], B258850-BLK1, B258850-BS1, B258850-BSD1, S048833-CCV1

Chloromethane

20E1101-06[MW-101S-20200526], 20E1101-07[MW-101S-20200526 FD], 20E1101-09[MW-201D-20200526], 20E1101-10[MW-209D-20200526], 20E1101-11[MW-112-20200526], 20E1101-12[MW-218S-20200526], 20E1101-13[MW-218D-20200526], 20E1101-14[CW-01-20200526], 20E1101-15[CW-02-20200526], 20E1101-16[MW-216S-20200526], 20E1101-17[MW-216D-20200526], 20E1101-18[MW-217S-20200527], 20E1101-19[MW-217D-20200527], 20E1101-22[MW-109D-20200527], 20E1101-23[GZA-3-20200527], 20E1101-25[TB-1-20200527], 20E1101-26[MW-116D-20200527], 20E1101-27[MW-116S-20200527], B258850-BLK1, B258850-BS1, B258850-BSD1, S048833-CCV1

Diethyl Ether

20E1101-06[MW-101S-20200526], 20E1101-07[MW-101S-20200526 FD], 20E1101-09[MW-201D-20200526], 20E1101-10[MW-209D-20200526], 20E1101-11[MW-112-20200526], 20E1101-12[MW-218S-20200526], 20E1101-13[MW-218D-20200526], 20E1101-14[CW-01-20200526], 20E1101-15[CW-02-20200526], 20E1101-16[MW-216S-20200526], 20E1101-17[MW-216D-20200526], 20E1101-18[MW-217S-20200527], 20E1101-19[MW-217D-20200527], 20E1101-22[MW-109D-20200527], 20E1101-23[GZA-3-20200527], 20E1101-25[TB-1-20200527], 20E1101-26[MW-116D-20200527], 20E1101-27[MW-116S-20200527], B258850-BLK1, B258850-BS1, B258850-BSD1, S048833-CCV1

tert-Butyl Alcohol (TBA)

20E1101-01[MW-207D-20200526], 20E1101-02[MW-207S-20200526], 20E1101-03[MW-202D-20200526], 20E1101-04[MW-202S-20200526], 20E1101-05[MW-101D-20200526], B258849-BLK1, B258849-BS1, B258849-BSD1, S048837-CCV1

trans-1,4-Dichloro-2-butene

20E1101-06[MW-101S-20200526], 20E1101-07[MW-101S-20200526 FD], 20E1101-09[MW-201D-20200526], 20E1101-10[MW-209D-20200526], 20E1101-11[MW-112-20200526], 20E1101-12[MW-218S-20200526], 20E1101-13[MW-218D-20200526], 20E1101-14[CW-01-20200526], 20E1101-15[CW-02-20200526], 20E1101-16[MW-216S-20200526], 20E1101-17[MW-216D-20200526], 20E1101-18[MW-217S-20200527], 20E1101-19[MW-217D-20200527], 20E1101-22[MW-109D-20200527], 20E1101-23[GZA-3-20200527], 20E1101-25[TB-1-20200527], 20E1101-26[MW-116D-20200527], 20E1101-27[MW-116S-20200527], B258850-BLK1, B258850-BS1, B258850-BSD1, S048833-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

B258927-BLK1, B258927-BS1, B258927-BSD1, S048897-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:**Acetone**

B258927-BS1, B258927-BSD1, S048897-CCV1

Bromomethane

B258927-BS1, B258927-BSD1, S048897-CCV1

Chloromethane

B258927-BS1, B258927-BSD1, S048897-CCV1

Methyl Acetate

B258849-BS1, B258849-BSD1, S048837-CCV1

Methylene Chloride

B258927-BS1, B258927-BSD1, S048897-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test 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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-207D-20200526

Sampled: 5/26/2020 08:00

Sample ID: 20E1101-01

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	5/28/20	5/28/20 17:30	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-207D-20200526

Sampled: 5/26/2020 08:00

Sample ID: 20E1101-01

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	5/28/20	5/28/20 17:30	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Isopropylbenzene (Cumene)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Styrene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Tetrachloroethylene	1.4	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	110	70-130	5/28/20 17:30
Toluene-d8	96.5	70-130	5/28/20 17:30
4-Bromofluorobenzene	96.9	70-130	5/28/20 17:30

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-207S-20200526

Sampled: 5/26/2020 08:30

Sample ID: 20E1101-02

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	5/28/20	5/28/20 17:54	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-207S-20200526

Sampled: 5/26/2020 08:30

Sample ID: 20E1101-02

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	5/28/20	5/28/20 17:54	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Isopropylbenzene (Cumene)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Styrene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Tetrachloroethylene	1.9	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 17:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	112	70-130	5/28/20 17:54
Toluene-d8	94.8	70-130	5/28/20 17:54
4-Bromofluorobenzene	94.4	70-130	5/28/20 17:54

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-202D-20200526

Sampled: 5/26/2020 07:00

Sample ID: 20E1101-03

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	5/28/20	5/28/20 18:17	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-202D-20200526

Sampled: 5/26/2020 07:00

Sample ID: 20E1101-03

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	5/28/20	5/28/20 18:17	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Isopropylbenzene (Cumene)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Styrene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Tetrachloroethylene	4.1	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	112	70-130	5/28/20 18:17
Toluene-d8	96.5	70-130	5/28/20 18:17
4-Bromofluorobenzene	95.1	70-130	5/28/20 18:17

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-202S-20200526

Sampled: 5/26/2020 07:30

Sample ID: 20E1101-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-202S-20200526

Sampled: 5/26/2020 07:30

Sample ID: 20E1101-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Isopropylbenzene (Cumene)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Styrene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Tetrachloroethylene	9.7	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 18:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	5/28/20 18:41
Toluene-d8	97.0	70-130	5/28/20 18:41
4-Bromofluorobenzene	94.9	70-130	5/28/20 18:41

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-101D-20200526

Sampled: 5/26/2020 09:30

Sample ID: 20E1101-05

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 8260C-D	5/28/20	5/28/20 19:05	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-101D-20200526

Sampled: 5/26/2020 09:30

Sample ID: 20E1101-05

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 8260C-D	5/28/20	5/28/20 19:05	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Isopropylbenzene (Cumene)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Styrene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 19:05	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	113	70-130	5/28/20 19:05
Toluene-d8	94.8	70-130	5/28/20 19:05
4-Bromofluorobenzene	92.2	70-130	5/28/20 19:05

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-101S-20200526

Sampled: 5/26/2020 10:00

Sample ID: 20E1101-06

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1000	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Acrylonitrile	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
tert-Amyl Methyl Ether (TAME)	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Benzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Bromobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Bromochloromethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Bromodichloromethane	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Bromoform	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Bromomethane	ND	40	µg/L	20	V-05	SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
2-Butanone (MEK)	ND	400	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
tert-Butyl Alcohol (TBA)	ND	400	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
n-Butylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
sec-Butylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
tert-Butylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Carbon Disulfide	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Carbon Tetrachloride	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Chlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Chlorodibromomethane	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Chloroethane	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Chloroform	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Chloromethane	ND	40	µg/L	20	V-05	SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
2-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
4-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,2-Dibromoethane (EDB)	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Dibromomethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,2-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,3-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,4-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
trans-1,4-Dichloro-2-butene	ND	40	µg/L	20	V-05	SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Dichlorodifluoromethane (Freon 12)	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,1-Dichloroethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,2-Dichloroethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,1-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
cis-1,2-Dichloroethylene	24	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
trans-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,3-Dichloropropane	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
2,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,1-Dichloropropene	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
cis-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
trans-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Diethyl Ether	ND	40	µg/L	20	V-05	SW-846 8260C-D	5/28/20	5/28/20 16:34	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-101S-20200526

Sampled: 5/26/2020 10:00

Sample ID: 20E1101-06

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,4-Dioxane	ND	1000	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Ethylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Hexachlorobutadiene	ND	12	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
2-Hexanone (MBK)	ND	200	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Isopropylbenzene (Cumene)	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
p-Isopropyltoluene (p-Cymene)	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Methyl Acetate	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Methyl tert-Butyl Ether (MTBE)	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Methyl Cyclohexane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Methylene Chloride	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
4-Methyl-2-pentanone (MIBK)	ND	200	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Naphthalene	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
n-Propylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Styrene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,1,1,2-Tetrachloroethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,1,2,2-Tetrachloroethane	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Tetrachloroethylene	5700	500	µg/L	500		SW-846 8260C-D	5/29/20	5/29/20 12:59	EEH
Tetrahydrofuran	ND	200	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Toluene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,2,3-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,2,4-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,3,5-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,1,1-Trichloroethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,1,2-Trichloroethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Trichloroethylene	27	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Trichlorofluoromethane (Freon 11)	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,2,3-Trichloropropane	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,2,4-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
1,3,5-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Vinyl Chloride	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
m+p Xylene	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
o-Xylene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD
Xylenes (total)	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 16:34	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.6	70-130	5/28/20 16:34
1,2-Dichloroethane-d4	121	70-130	5/29/20 12:59
Toluene-d8	96.7	70-130	5/28/20 16:34
Toluene-d8	101	70-130	5/29/20 12:59
4-Bromofluorobenzene	103	70-130	5/28/20 16:34
4-Bromofluorobenzene	99.6	70-130	5/29/20 12:59

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-101S-20200526 FD

Sampled: 5/26/2020 10:00

Sample ID: 20E1101-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5000	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Acrylonitrile	ND	500	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
tert-Amyl Methyl Ether (TAME)	ND	50	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Benzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Bromobenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Bromochloromethane	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Bromodichloromethane	ND	50	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Bromoform	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Bromomethane	ND	200	µg/L	100	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
2-Butanone (MEK)	ND	2000	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
tert-Butyl Alcohol (TBA)	ND	2000	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
n-Butylbenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
sec-Butylbenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
tert-Butylbenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	50	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Carbon Disulfide	ND	500	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Carbon Tetrachloride	ND	500	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Chlorobenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Chlorodibromomethane	ND	50	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Chloroethane	ND	200	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Chloroform	ND	200	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Chloromethane	ND	200	µg/L	100	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
2-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
4-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,2-Dibromoethane (EDB)	ND	50	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Dibromomethane	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,2-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,3-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,4-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
trans-1,4-Dichloro-2-butene	ND	200	µg/L	100	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Dichlorodifluoromethane (Freon 12)	ND	200	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,1-Dichloroethane	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,2-Dichloroethane	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,1-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
cis-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
trans-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,3-Dichloropropane	ND	50	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
2,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,1-Dichloropropene	ND	200	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
cis-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
trans-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Diethyl Ether	ND	200	µg/L	100	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:26	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-101S-20200526 FD

Sampled: 5/26/2020 10:00

Sample ID: 20E1101-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	50	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,4-Dioxane	ND	5000	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Ethylbenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Hexachlorobutadiene	ND	60	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
2-Hexanone (MBK)	ND	1000	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Isopropylbenzene (Cumene)	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
p-Isopropyltoluene (p-Cymene)	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Methyl Acetate	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Methyl tert-Butyl Ether (MTBE)	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Methyl Cyclohexane	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Methylene Chloride	ND	500	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
4-Methyl-2-pentanone (MIBK)	ND	1000	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Naphthalene	ND	200	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
n-Propylbenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Styrene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,1,1,2-Tetrachloroethane	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,1,2,2-Tetrachloroethane	ND	50	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Tetrachloroethylene	5500	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Tetrahydrofuran	ND	1000	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Toluene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,2,3-Trichlorobenzene	ND	500	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,2,4-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,3,5-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,1,1-Trichloroethane	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,1,2-Trichloroethane	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Trichloroethylene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Trichlorofluoromethane (Freon 11)	ND	200	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,2,3-Trichloropropane	ND	200	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,2,4-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
1,3,5-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Vinyl Chloride	ND	200	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
m+p Xylene	ND	200	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
o-Xylene	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD
Xylenes (total)	ND	100	µg/L	100		SW-846 8260C-D	5/28/20	5/28/20 17:26	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.2	70-130	5/28/20 17:26
Toluene-d8	96.8	70-130	5/28/20 17:26
4-Bromofluorobenzene	100	70-130	5/28/20 17:26

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-201D-20200526

Sampled: 5/26/2020 11:20

Sample ID: 20E1101-09

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	2500	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Acrylonitrile	ND	250	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
tert-Amyl Methyl Ether (TAME)	ND	25	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Benzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Bromobenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Bromochloromethane	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Bromodichloromethane	ND	25	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Bromoform	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Bromomethane	ND	100	µg/L	50	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
2-Butanone (MEK)	ND	1000	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
tert-Butyl Alcohol (TBA)	ND	1000	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
n-Butylbenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
sec-Butylbenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
tert-Butylbenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	25	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Carbon Disulfide	ND	250	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Carbon Tetrachloride	ND	250	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Chlorobenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Chlorodibromomethane	ND	25	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Chloroethane	ND	100	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Chloroform	ND	100	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Chloromethane	ND	100	µg/L	50	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
2-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
4-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,2-Dibromoethane (EDB)	ND	25	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Dibromomethane	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,2-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,3-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,4-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
trans-1,4-Dichloro-2-butene	ND	100	µg/L	50	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Dichlorodifluoromethane (Freon 12)	ND	100	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,1-Dichloroethane	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,2-Dichloroethane	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,1-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
cis-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
trans-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,3-Dichloropropane	ND	25	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
2,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,1-Dichloropropene	ND	100	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
cis-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
trans-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Diethyl Ether	ND	100	µg/L	50	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:52	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-201D-20200526

Sampled: 5/26/2020 11:20

Sample ID: 20E1101-09

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	25	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,4-Dioxane	ND	2500	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Ethylbenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Hexachlorobutadiene	ND	30	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
2-Hexanone (MBK)	ND	500	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Isopropylbenzene (Cumene)	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
p-Isopropyltoluene (p-Cymene)	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Methyl Acetate	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Methyl tert-Butyl Ether (MTBE)	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Methyl Cyclohexane	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Methylene Chloride	ND	250	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
4-Methyl-2-pentanone (MIBK)	ND	500	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Naphthalene	ND	100	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
n-Propylbenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Styrene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,1,1,2-Tetrachloroethane	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,1,2,2-Tetrachloroethane	ND	25	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Tetrachloroethylene	4400	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Tetrahydrofuran	ND	500	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Toluene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,2,3-Trichlorobenzene	ND	250	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,2,4-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,3,5-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,1,1-Trichloroethane	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,1,2-Trichloroethane	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Trichloroethylene	490	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Trichlorofluoromethane (Freon 11)	ND	100	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,2,3-Trichloropropane	ND	100	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,2,4-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
1,3,5-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Vinyl Chloride	ND	100	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
m+p Xylene	ND	100	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
o-Xylene	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD
Xylenes (total)	ND	50	µg/L	50		SW-846 8260C-D	5/28/20	5/28/20 17:52	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.0	70-130	5/28/20 17:52
Toluene-d8	96.2	70-130	5/28/20 17:52
4-Bromofluorobenzene	105	70-130	5/28/20 17:52

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-209D-20200526

Sampled: 5/26/2020 12:00

Sample ID: 20E1101-10

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 8260C-D	5/28/20	5/28/20 18:18	LBD
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Benzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Bromoform	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Bromomethane	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Chloroform	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Chloromethane	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,1-Dichloroethylene	4.0	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
cis-1,2-Dichloroethylene	39	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Diethyl Ether	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 18:18	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-209D-20200526

Sampled: 5/26/2020 12:00

Sample ID: 20E1101-10

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 8260C-D	5/28/20	5/28/20 18:18	LBD
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Naphthalene	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Styrene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Tetrachloroethylene	360	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Toluene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Trichloroethylene	55	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
o-Xylene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD
Xylenes (total)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:18	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.1	70-130	5/28/20 18:18
Toluene-d8	96.6	70-130	5/28/20 18:18
4-Bromofluorobenzene	102	70-130	5/28/20 18:18

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-112-20200526

Sampled: 5/26/2020 12:30

Sample ID: 20E1101-11

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 8260C-D	5/28/20	5/28/20 18:44	LBD
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Benzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Bromoform	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Bromomethane	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Chloroform	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Chloromethane	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
cis-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Diethyl Ether	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 18:44	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-112-20200526

Sampled: 5/26/2020 12:30

Sample ID: 20E1101-11

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 8260C-D	5/28/20	5/28/20 18:44	LBD
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Naphthalene	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Styrene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Tetrachloroethylene	82	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Toluene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Trichloroethylene	7.2	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
o-Xylene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD
Xylenes (total)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 18:44	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.2	70-130	5/28/20 18:44
Toluene-d8	96.8	70-130	5/28/20 18:44
4-Bromofluorobenzene	105	70-130	5/28/20 18:44

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-218S-20200526

Sampled: 5/26/2020 13:00

Sample ID: 20E1101-12

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 8260C-D	5/28/20	5/28/20 13:31	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Diethyl Ether	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:31	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-218S-20200526

Sampled: 5/26/2020 13:00

Sample ID: 20E1101-12

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 8260C-D	5/28/20	5/28/20 13:31	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Tetrachloroethylene	21	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:31	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/28/20 13:31
Toluene-d8	97.2	70-130	5/28/20 13:31
4-Bromofluorobenzene	104	70-130	5/28/20 13:31

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-218D-20200526

Sampled: 5/26/2020 13:30

Sample ID: 20E1101-13

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	1000	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Acrylonitrile	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
tert-Amyl Methyl Ether (TAME)	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Benzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Bromobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Bromochloromethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Bromodichloromethane	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Bromoform	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Bromomethane	ND	40	µg/L	20	V-05	SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
2-Butanone (MEK)	ND	400	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
tert-Butyl Alcohol (TBA)	ND	400	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
n-Butylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
sec-Butylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
tert-Butylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Carbon Disulfide	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Carbon Tetrachloride	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Chlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Chlorodibromomethane	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Chloroethane	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Chloroform	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Chloromethane	ND	40	µg/L	20	V-05	SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
2-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
4-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,2-Dibromoethane (EDB)	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Dibromomethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,2-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,3-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,4-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
trans-1,4-Dichloro-2-butene	ND	40	µg/L	20	V-05	SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Dichlorodifluoromethane (Freon 12)	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,1-Dichloroethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,2-Dichloroethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,1-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
cis-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
trans-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,3-Dichloropropane	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
2,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,1-Dichloropropene	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
cis-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
trans-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Diethyl Ether	ND	40	µg/L	20	V-05	SW-846 8260C-D	5/28/20	5/28/20 19:10	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-218D-20200526

Sampled: 5/26/2020 13:30

Sample ID: 20E1101-13

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	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,4-Dioxane	ND	1000	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Ethylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Hexachlorobutadiene	ND	12	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
2-Hexanone (MBK)	ND	200	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Isopropylbenzene (Cumene)	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
p-Isopropyltoluene (p-Cymene)	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Methyl Acetate	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Methyl tert-Butyl Ether (MTBE)	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Methyl Cyclohexane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Methylene Chloride	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
4-Methyl-2-pentanone (MIBK)	ND	200	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Naphthalene	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
n-Propylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Styrene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,1,1,2-Tetrachloroethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,1,2,2-Tetrachloroethane	ND	10	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Tetrachloroethylene	7400	1000	µg/L	1000		SW-846 8260C-D	5/29/20	5/29/20 15:37	EEH
Tetrahydrofuran	ND	200	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Toluene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,2,3-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,2,4-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,3,5-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,1,1-Trichloroethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,1,2-Trichloroethane	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Trichloroethylene	75	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Trichlorofluoromethane (Freon 11)	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,2,3-Trichloropropane	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,2,4-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
1,3,5-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Vinyl Chloride	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
m+p Xylene	ND	40	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
o-Xylene	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD
Xylenes (total)	ND	20	µg/L	20		SW-846 8260C-D	5/28/20	5/28/20 19:10	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	121	70-130	5/29/20 15:37
1,2-Dichloroethane-d4	95.9	70-130	5/28/20 19:10
Toluene-d8	95.1	70-130	5/28/20 19:10
Toluene-d8	100	70-130	5/29/20 15:37
4-Bromofluorobenzene	97.7	70-130	5/29/20 15:37
4-Bromofluorobenzene	105	70-130	5/28/20 19:10

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: 20E1101

Date Received: 5/27/2020

Field Sample #: CW-01-20200526

Sampled: 5/26/2020 14:30

Sample ID: 20E1101-14

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	500	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Acrylonitrile	ND	50	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Benzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Bromobenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Bromochloromethane	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Bromodichloromethane	ND	5.0	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Bromoform	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Bromomethane	ND	20	µg/L	10	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
2-Butanone (MEK)	ND	200	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Carbon Disulfide	ND	50	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Chlorobenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Chloroethane	ND	20	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Chloroform	ND	20	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Chloromethane	ND	20	µg/L	10	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Dibromomethane	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
cis-1,2-Dichloroethylene	72	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
cis-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Diethyl Ether	ND	20	µg/L	10	V-05	SW-846 8260C-D	5/28/20	5/28/20 17:00	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: 20E1101

Date Received: 5/27/2020

Field Sample #: CW-01-20200526

Sampled: 5/26/2020 14:30

Sample ID: 20E1101-14

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	5.0	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,4-Dioxane	ND	500	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Ethylbenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Hexachlorobutadiene	ND	6.0	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Methyl Acetate	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Methyl Cyclohexane	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Methylene Chloride	ND	50	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Naphthalene	ND	20	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Styrene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Tetrachloroethylene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Tetrahydrofuran	ND	100	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Toluene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Trichloroethylene	570	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
m+p Xylene	ND	20	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
o-Xylene	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD
Xylenes (total)	ND	10	µg/L	10		SW-846 8260C-D	5/28/20	5/28/20 17:00	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	92.1	70-130	5/28/20 17:00
Toluene-d8	98.7	70-130	5/28/20 17:00
4-Bromofluorobenzene	103	70-130	5/28/20 17:00

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: 20E1101

Date Received: 5/27/2020

Field Sample #: CW-02-20200526

Sampled: 5/26/2020 15:15

Sample ID: 20E1101-15

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 8260C-D	5/28/20	5/28/20 12:13	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Diethyl Ether	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 12:13	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: 20E1101

Date Received: 5/27/2020

Field Sample #: CW-02-20200526

Sampled: 5/26/2020 15:15

Sample ID: 20E1101-15

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 8260C-D	5/28/20	5/28/20 12:13	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Methyl tert-Butyl Ether (MTBE)	1.9	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,1,1-Trichloroethane	2.3	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Trichloroethylene	1.5	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:13	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	5/28/20 12:13
Toluene-d8	98.1	70-130	5/28/20 12:13
4-Bromofluorobenzene	103	70-130	5/28/20 12:13

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-216S-20200526

Sampled: 5/26/2020 16:00

Sample ID: 20E1101-16

Sample Matrix: Ground Water

Sample Flags: RL-13

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 8260C-D	5/28/20	5/28/20 16:08	LBD
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Benzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Bromoform	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Bromomethane	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Chloroform	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Chloromethane	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
cis-1,2-Dichloroethylene	66	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Diethyl Ether	ND	4.0	µg/L	2	V-05	SW-846 8260C-D	5/28/20	5/28/20 16:08	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-216S-20200526

Sampled: 5/26/2020 16:00

Sample ID: 20E1101-16

Sample Matrix: Ground Water

Sample Flags: RL-13

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 8260C-D	5/28/20	5/28/20 16:08	LBD
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Ethylbenzene	2.7	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Naphthalene	16	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Styrene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Toluene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,2,4-Trimethylbenzene	12	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
1,3,5-Trimethylbenzene	4.9	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
m+p Xylene	4.0	4.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
o-Xylene	8.3	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD
Xylenes (total)	12	2.0	µg/L	2		SW-846 8260C-D	5/28/20	5/28/20 16:08	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	5/28/20 16:08
Toluene-d8	97.2	70-130	5/28/20 16:08
4-Bromofluorobenzene	106	70-130	5/28/20 16:08

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-216D-20200526

Sampled: 5/26/2020 16:30

Sample ID: 20E1101-17

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 8260C-D	5/28/20	5/28/20 13:57	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Diethyl Ether	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:57	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-216D-20200526

Sampled: 5/26/2020 16:30

Sample ID: 20E1101-17

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 8260C-D	5/28/20	5/28/20 13:57	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:57	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	5/28/20 13:57
Toluene-d8	98.3	70-130	5/28/20 13:57
4-Bromofluorobenzene	103	70-130	5/28/20 13:57

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-217S-20200527

Sampled: 5/27/2020 07:30

Sample ID: 20E1101-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Diethyl Ether	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 12:39	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-217S-20200527

Sampled: 5/27/2020 07:30

Sample ID: 20E1101-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Tetrachloroethylene	7.5	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Trichloroethylene	1.2	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 12:39	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	5/28/20 12:39
Toluene-d8	95.4	70-130	5/28/20 12:39
4-Bromofluorobenzene	105	70-130	5/28/20 12:39

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-217D-20200527

Sampled: 5/27/2020 08:00

Sample ID: 20E1101-19

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 8260C-D	5/28/20	5/28/20 13:05	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
cis-1,2-Dichloroethylene	4.1	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Diethyl Ether	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 13:05	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-217D-20200527

Sampled: 5/27/2020 08:00

Sample ID: 20E1101-19

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 8260C-D	5/28/20	5/28/20 13:05	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Tetrachloroethylene	1.1	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Trichloroethylene	6.4	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 13:05	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.5	70-130	5/28/20 13:05
Toluene-d8	97.8	70-130	5/28/20 13:05
4-Bromofluorobenzene	104	70-130	5/28/20 13:05

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: 20E1101

Date Received: 5/27/2020

Field Sample #: CW-06-20200527

Sampled: 5/27/2020 09:30

Sample ID: 20E1101-20

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fuel Oil #2	12	1.9	mg/L	10	O-31	SW-846 8015C	5/28/20	5/31/20 14:17	RDD
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	72.0		40-140					5/31/20 14:17	

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: 20E1101

Date Received: 5/27/2020

Field Sample #: CW-06-20200527 FD

Sampled: 5/27/2020 09:30

Sample ID: 20E1101-21

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fuel Oil #2	14	1.9	mg/L	10	O-31	SW-846 8015C	5/28/20	5/31/20 14:38	RDD
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	74.6		40-140					5/31/20 14:38	

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-109D-20200527

Sampled: 5/27/2020 10:45

Sample ID: 20E1101-22

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Diethyl Ether	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 14:24	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-109D-20200527

Sampled: 5/27/2020 10:45

Sample ID: 20E1101-22

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:24	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.5	70-130	5/28/20 14:24
Toluene-d8	96.4	70-130	5/28/20 14:24
4-Bromofluorobenzene	104	70-130	5/28/20 14:24

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-109D-20200527

Sampled: 5/27/2020 10:45

Sample ID: 20E1101-22

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	6/1/20	6/1/20 12:43	QNW

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: 20E1101

Date Received: 5/27/2020

Field Sample #: GZA-3-20200527

Sampled: 5/27/2020 11:15

Sample ID: 20E1101-23

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Diethyl Ether	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 14:50	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: 20E1101

Date Received: 5/27/2020

Field Sample #: GZA-3-20200527

Sampled: 5/27/2020 11:15

Sample ID: 20E1101-23

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Vinyl Chloride	8.5	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 14:50	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	5/28/20 14:50
Toluene-d8	95.6	70-130	5/28/20 14:50
4-Bromofluorobenzene	105	70-130	5/28/20 14:50

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: 20E1101

Date Received: 5/27/2020

Field Sample #: GZA-3-20200527

Sampled: 5/27/2020 11:15

Sample ID: 20E1101-23

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.5	0.50	µg/L	1		SW-846 6020B	6/1/20	6/1/20 12:46	QNW

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: 20E1101

Date Received: 5/27/2020

Field Sample #: GZA-3-20200527 FD

Sampled: 5/27/2020 11:15

Sample ID: 20E1101-24

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	2.1	0.50	µg/L	1		SW-846 6020B	6/1/20	6/1/20 12:49	QNW

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: 20E1101

Date Received: 5/27/2020

Field Sample #: TB-1-20200527

Sampled: 5/27/2020 00:00

Sample ID: 20E1101-25

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Diethyl Ether	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 10:55	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: 20E1101

Date Received: 5/27/2020

Field Sample #: TB-1-20200527

Sampled: 5/27/2020 00:00

Sample ID: 20E1101-25

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 10:55	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	5/28/20 10:55
Toluene-d8	98.0	70-130	5/28/20 10:55
4-Bromofluorobenzene	105	70-130	5/28/20 10:55

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-116D-20200527

Sampled: 5/27/2020 12:30

Sample ID: 20E1101-26

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 8260C-D	5/28/20	5/28/20 15:16	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Diethyl Ether	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 15:16	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-116D-20200527

Sampled: 5/27/2020 12:30

Sample ID: 20E1101-26

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 8260C-D	5/28/20	5/28/20 15:16	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:16	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.5	70-130	5/28/20 15:16
Toluene-d8	96.6	70-130	5/28/20 15:16
4-Bromofluorobenzene	103	70-130	5/28/20 15:16

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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-116S-20200527

Sampled: 5/27/2020 12:50

Sample ID: 20E1101-27

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	5/28/20	5/28/20 15:42	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Diethyl Ether	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	5/28/20	5/28/20 15:42	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: 20E1101

Date Received: 5/27/2020

Field Sample #: MW-116S-20200527

Sampled: 5/27/2020 12:50

Sample ID: 20E1101-27

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	5/28/20	5/28/20 15:42	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260C-D	5/28/20	5/28/20 15:42	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.8	70-130	5/28/20 15:42
Toluene-d8	97.3	70-130	5/28/20 15:42
4-Bromofluorobenzene	104	70-130	5/28/20 15:42

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20E1101-22 [MW-109D-20200527]	B259061	10.0	10.0	06/01/20
20E1101-23 [GZA-3-20200527]	B259061	10.0	10.0	06/01/20
20E1101-24 [GZA-3-20200527 FD]	B259061	10.0	10.0	06/01/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20E1101-20 [CW-06-20200527]	B258898	1060	1.00	05/28/20
20E1101-21 [CW-06-20200527 FD]	B258898	1060	1.00	05/28/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20E1101-01 [MW-207D-20200526]	B258849	5	5.00	05/28/20
20E1101-02 [MW-207S-20200526]	B258849	5	5.00	05/28/20
20E1101-03 [MW-202D-20200526]	B258849	5	5.00	05/28/20
20E1101-04 [MW-202S-20200526]	B258849	5	5.00	05/28/20
20E1101-05 [MW-101D-20200526]	B258849	5	5.00	05/28/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20E1101-06 [MW-101S-20200526]	B258850	0.25	5.00	05/28/20
20E1101-07 [MW-101S-20200526 FD]	B258850	0.05	5.00	05/28/20
20E1101-09 [MW-201D-20200526]	B258850	0.1	5.00	05/28/20
20E1101-10 [MW-209D-20200526]	B258850	2.5	5.00	05/28/20
20E1101-11 [MW-112-20200526]	B258850	2.5	5.00	05/28/20
20E1101-12 [MW-218S-20200526]	B258850	5	5.00	05/28/20
20E1101-13 [MW-218D-20200526]	B258850	0.25	5.00	05/28/20
20E1101-14 [CW-01-20200526]	B258850	0.5	5.00	05/28/20
20E1101-15 [CW-02-20200526]	B258850	5	5.00	05/28/20
20E1101-16 [MW-216S-20200526]	B258850	2.5	5.00	05/28/20
20E1101-17 [MW-216D-20200526]	B258850	5	5.00	05/28/20
20E1101-18 [MW-217S-20200527]	B258850	5	5.00	05/28/20
20E1101-19 [MW-217D-20200527]	B258850	5	5.00	05/28/20
20E1101-22 [MW-109D-20200527]	B258850	5	5.00	05/28/20
20E1101-23 [GZA-3-20200527]	B258850	5	5.00	05/28/20
20E1101-25 [TB-1-20200527]	B258850	5	5.00	05/28/20
20E1101-26 [MW-116D-20200527]	B258850	5	5.00	05/28/20
20E1101-27 [MW-116S-20200527]	B258850	5	5.00	05/28/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20E1101-06RE1 [MW-101S-20200526]	B258927	0.01	5.00	05/29/20
20E1101-13RE1 [MW-218D-20200526]	B258927	0.005	5.00	05/29/20

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 B258849 - SW-846 5030B

Blank (B258849-BLK1)

Prepared & Analyzed: 05/28/20

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							
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							

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 B258849 - SW-846 5030B

Blank (B258849-BLK1)

Prepared & Analyzed: 05/28/20

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	28.0		µg/L	25.0		112	70-130			
Surrogate: Toluene-d8	23.8		µg/L	25.0		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		96.0	70-130			

LCS (B258849-BS1)

Prepared & Analyzed: 05/28/20

Acetone	108	50	µg/L	100		108	70-160			†
Acrylonitrile	9.79	5.0	µg/L	10.0		97.9	70-130			
tert-Amyl Methyl Ether (TAME)	8.36	0.50	µg/L	10.0		83.6	70-130			
Benzene	10.7	1.0	µg/L	10.0		107	70-130			
Bromobenzene	10.5	1.0	µg/L	10.0		105	70-130			
Bromochloromethane	11.5	1.0	µg/L	10.0		115	70-130			
Bromodichloromethane	9.85	0.50	µg/L	10.0		98.5	70-130			
Bromoform	9.37	1.0	µg/L	10.0		93.7	70-130			
Bromomethane	5.19	2.0	µg/L	10.0		51.9	40-160			†
2-Butanone (MEK)	122	20	µg/L	100		122	40-160			†
tert-Butyl Alcohol (TBA)	69.6	20	µg/L	100		69.6	40-160		V-05	†
n-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
sec-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
tert-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.25	0.50	µg/L	10.0		92.5	70-130			
Carbon Disulfide	8.88	5.0	µg/L	10.0		88.8	70-130			
Carbon Tetrachloride	9.67	5.0	µg/L	10.0		96.7	70-130			
Chlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130			
Chlorodibromomethane	8.80	0.50	µg/L	10.0		88.0	70-130			
Chloroethane	8.11	2.0	µg/L	10.0		81.1	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B258849 - SW-846 5030B										
LCS (B258849-BS1)										
Prepared & Analyzed: 05/28/20										
Chloroform	11.3	2.0	µg/L	10.0		113	70-130			
Chloromethane	7.49	2.0	µg/L	10.0		74.9	40-160			†
2-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130			
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.96	5.0	µg/L	10.0		89.6	70-130			
1,2-Dibromoethane (EDB)	9.64	0.50	µg/L	10.0		96.4	70-130			
Dibromomethane	9.87	1.0	µg/L	10.0		98.7	70-130			
1,2-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
trans-1,4-Dichloro-2-butene	9.71	2.0	µg/L	10.0		97.1	70-130			
Dichlorodifluoromethane (Freon 12)	7.62	2.0	µg/L	10.0		76.2	40-160			†
1,1-Dichloroethane	11.4	1.0	µg/L	10.0		114	70-130			
1,2-Dichloroethane	9.23	1.0	µg/L	10.0		92.3	70-130			
1,1-Dichloroethylene	9.01	1.0	µg/L	10.0		90.1	70-130			
cis-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
trans-1,2-Dichloroethylene	8.87	1.0	µg/L	10.0		88.7	70-130			
1,2-Dichloropropane	10.0	1.0	µg/L	10.0		100	70-130			
1,3-Dichloropropane	9.80	0.50	µg/L	10.0		98.0	70-130			
2,2-Dichloropropane	9.42	1.0	µg/L	10.0		94.2	40-130			†
1,1-Dichloropropene	9.58	2.0	µg/L	10.0		95.8	70-130			
cis-1,3-Dichloropropene	9.28	0.50	µg/L	10.0		92.8	70-130			
trans-1,3-Dichloropropene	9.55	0.50	µg/L	10.0		95.5	70-130			
Diethyl Ether	8.97	2.0	µg/L	10.0		89.7	70-130			
Diisopropyl Ether (DIPE)	10.7	0.50	µg/L	10.0		107	70-130			
1,4-Dioxane	127	50	µg/L	100		127	40-130			†
Ethylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Hexachlorobutadiene	9.37	0.60	µg/L	10.0		93.7	70-130			
2-Hexanone (MBK)	104	10	µg/L	100		104	70-160			†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.0		101	70-130			
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130			
Methyl Acetate	11.5	1.0	µg/L	10.0		115	70-130			V-20
Methyl tert-Butyl Ether (MTBE)	8.07	1.0	µg/L	10.0		80.7	70-130			
Methyl Cyclohexane	10.3	1.0	µg/L	10.0		103	70-130			
Methylene Chloride	9.25	5.0	µg/L	10.0		92.5	70-130			
4-Methyl-2-pentanone (MIBK)	104	10	µg/L	100		104	70-160			†
Naphthalene	10.4	2.0	µg/L	10.0		104	40-130			†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
Styrene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1,2-Tetrachloroethane	9.33	1.0	µg/L	10.0		93.3	70-130			
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130			
Tetrachloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
Tetrahydrofuran	10.3	10	µg/L	10.0		103	70-130			
Toluene	10.3	1.0	µg/L	10.0		103	70-130			
1,2,3-Trichlorobenzene	9.28	5.0	µg/L	10.0		92.8	70-130			
1,2,4-Trichlorobenzene	9.88	1.0	µg/L	10.0		98.8	70-130			
1,3,5-Trichlorobenzene	9.66	1.0	µg/L	10.0		96.6	70-130			
1,1,1-Trichloroethane	9.86	1.0	µg/L	10.0		98.6	70-130			
1,1,2-Trichloroethane	9.99	1.0	µg/L	10.0		99.9	70-130			
Trichloroethylene	9.50	1.0	µg/L	10.0		95.0	70-130			
Trichlorofluoromethane (Freon 11)	6.98	2.0	µg/L	10.0		69.8 *	70-130			L-07
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.0		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 B258849 - SW-846 5030B

LCS (B258849-BS1)

Prepared & Analyzed: 05/28/20

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.40	1.0	µg/L	10.0		94.0	70-130			
1,2,4-Trimethylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,3,5-Trimethylbenzene	9.97	1.0	µg/L	10.0		99.7	70-130			
Vinyl Chloride	7.51	2.0	µg/L	10.0		75.1	40-160			†
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130			
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130			
Xylenes (total)	31.7	1.0	µg/L	30.0		106	0-200			
Surrogate: 1,2-Dichloroethane-d4	26.3		µg/L	25.0		105	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	26.9		µg/L	25.0		108	70-130			

LCS Dup (B258849-BSD1)

Prepared & Analyzed: 05/28/20

Acetone	106	50	µg/L	100		106	70-160	2.13	25	†
Acrylonitrile	10.7	5.0	µg/L	10.0		107	70-130	8.70	25	
tert-Amyl Methyl Ether (TAME)	8.44	0.50	µg/L	10.0		84.4	70-130	0.952	25	
Benzene	11.0	1.0	µg/L	10.0		110	70-130	3.23	25	
Bromobenzene	10.5	1.0	µg/L	10.0		105	70-130	0.381	25	
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130	1.57	25	
Bromodichloromethane	9.44	0.50	µg/L	10.0		94.4	70-130	4.25	25	
Bromoform	9.68	1.0	µg/L	10.0		96.8	70-130	3.25	25	
Bromomethane	5.39	2.0	µg/L	10.0		53.9	40-160	3.78	25	†
2-Butanone (MEK)	122	20	µg/L	100		122	40-160	0.279	25	†
tert-Butyl Alcohol (TBA)	70.9	20	µg/L	100		70.9	40-160	1.87	25	V-05 †
n-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130	5.05	25	
sec-Butylbenzene	11.6	1.0	µg/L	10.0		116	70-130	3.94	25	
tert-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	0.185	25	
tert-Butyl Ethyl Ether (TBEE)	9.32	0.50	µg/L	10.0		93.2	70-130	0.754	25	
Carbon Disulfide	8.32	5.0	µg/L	10.0		83.2	70-130	6.51	25	
Carbon Tetrachloride	9.34	5.0	µg/L	10.0		93.4	70-130	3.47	25	
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	2.90	25	
Chlorodibromomethane	9.08	0.50	µg/L	10.0		90.8	70-130	3.13	25	
Chloroethane	7.75	2.0	µg/L	10.0		77.5	70-130	4.54	25	
Chloroform	11.1	2.0	µg/L	10.0		111	70-130	1.69	25	
Chloromethane	7.75	2.0	µg/L	10.0		77.5	40-160	3.41	25	†
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130	4.87	25	
4-Chlorotoluene	10.7	1.0	µg/L	10.0		107	70-130	0.0931	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)	9.90	0.50	µg/L	10.0		99.0	70-130	2.66	25	
Dibromomethane	9.75	1.0	µg/L	10.0		97.5	70-130	1.22	25	
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	3.71	25	
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	1.66	25	
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	0.0972	25	
trans-1,4-Dichloro-2-butene	10.6	2.0	µg/L	10.0		106	70-130	9.05	25	
Dichlorodifluoromethane (Freon 12)	7.68	2.0	µg/L	10.0		76.8	40-160	0.784	25	†
1,1-Dichloroethane	11.9	1.0	µg/L	10.0		119	70-130	4.28	25	
1,2-Dichloroethane	9.16	1.0	µg/L	10.0		91.6	70-130	0.761	25	
1,1-Dichloroethylene	9.06	1.0	µg/L	10.0		90.6	70-130	0.553	25	
cis-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130	0.444	25	
trans-1,2-Dichloroethylene	9.27	1.0	µg/L	10.0		92.7	70-130	4.41	25	
1,2-Dichloropropane	10.5	1.0	µg/L	10.0		105	70-130	4.38	25	
1,3-Dichloropropane	9.99	0.50	µg/L	10.0		99.9	70-130	1.92	25	
2,2-Dichloropropane	9.63	1.0	µg/L	10.0		96.3	40-130	2.20	25	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B258849 - SW-846 5030B										
LCS Dup (B258849-BSD1)										
					Prepared & Analyzed: 05/28/20					
1,1-Dichloropropene	9.38	2.0	µg/L	10.0		93.8	70-130	2.11	25	
cis-1,3-Dichloropropene	9.34	0.50	µg/L	10.0		93.4	70-130	0.644	25	
trans-1,3-Dichloropropene	9.64	0.50	µg/L	10.0		96.4	70-130	0.938	25	
Diethyl Ether	8.99	2.0	µg/L	10.0		89.9	70-130	0.223	25	
Diisopropyl Ether (DIPE)	10.8	0.50	µg/L	10.0		108	70-130	1.40	25	
1,4-Dioxane	130	50	µg/L	100		130	40-130	2.03	50	† ‡
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	1.06	25	
Hexachlorobutadiene	10.1	0.60	µg/L	10.0		101	70-130	7.70	25	
2-Hexanone (MBK)	103	10	µg/L	100		103	70-160	0.504	25	†
Isopropylbenzene (Cumene)	9.99	1.0	µg/L	10.0		99.9	70-130	0.698	25	
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0		104	70-130	1.65	25	
Methyl Acetate	12.0	1.0	µg/L	10.0		120	70-130	4.60	25	V-20
Methyl tert-Butyl Ether (MTBE)	8.29	1.0	µg/L	10.0		82.9	70-130	2.69	25	
Methyl Cyclohexane	10.3	1.0	µg/L	10.0		103	70-130	0.194	25	
Methylene Chloride	9.80	5.0	µg/L	10.0		98.0	70-130	5.77	25	
4-Methyl-2-pentanone (MIBK)	103	10	µg/L	100		103	70-160	1.60	25	†
Naphthalene	10.4	2.0	µg/L	10.0		104	40-130	0.768	25	†
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130	1.65	25	
Styrene	10.4	1.0	µg/L	10.0		104	70-130	2.14	25	
1,1,1,2-Tetrachloroethane	8.93	1.0	µg/L	10.0		89.3	70-130	4.38	25	
1,1,2,2-Tetrachloroethane	9.78	0.50	µg/L	10.0		97.8	70-130	2.82	25	
Tetrachloroethylene	10.0	1.0	µg/L	10.0		100	70-130	1.09	25	
Tetrahydrofuran	10.3	10	µg/L	10.0		103	70-130	0.388	25	
Toluene	10.1	1.0	µg/L	10.0		101	70-130	2.45	25	
1,2,3-Trichlorobenzene	9.25	5.0	µg/L	10.0		92.5	70-130	0.324	25	
1,2,4-Trichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	1.90	25	
1,3,5-Trichlorobenzene	9.33	1.0	µg/L	10.0		93.3	70-130	3.48	25	
1,1,1-Trichloroethane	9.90	1.0	µg/L	10.0		99.0	70-130	0.405	25	
1,1,2-Trichloroethane	9.82	1.0	µg/L	10.0		98.2	70-130	1.72	25	
Trichloroethylene	9.67	1.0	µg/L	10.0		96.7	70-130	1.77	25	
Trichlorofluoromethane (Freon 11)	7.34	2.0	µg/L	10.0		73.4	70-130	5.03	25	
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106	70-130	5.21	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.98	1.0	µg/L	10.0		89.8	70-130	4.57	25	
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130	2.27	25	
1,3,5-Trimethylbenzene	9.90	1.0	µg/L	10.0		99.0	70-130	0.705	25	
Vinyl Chloride	7.44	2.0	µg/L	10.0		74.4	40-160	0.936	25	†
m+p Xylene	21.7	2.0	µg/L	20.0		108	70-130	2.05	25	
o-Xylene	10.4	1.0	µg/L	10.0		104	70-130	0.668	25	
Xylenes (total)	32.1	1.0	µg/L	30.0		107	0-200	1.16		
Surrogate: 1,2-Dichloroethane-d4	26.4		µg/L	25.0		106	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	26.3		µg/L	25.0		105	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 B258850 - SW-846 5030B

Blank (B258850-BLK1)

Prepared & Analyzed: 05/28/20

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							V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							V-05
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							V-05
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							

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 B258850 - SW-846 5030B

Blank (B258850-BLK1)

Prepared & Analyzed: 05/28/20

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.2		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	24.2		µg/L	25.0		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	26.2		µg/L	25.0		105	70-130			

LCS (B258850-BS1)

Prepared & Analyzed: 05/28/20

Acetone	98.9	50	µg/L	100		98.9	70-160			†
Acrylonitrile	8.78	5.0	µg/L	10.0		87.8	70-130			
tert-Amyl Methyl Ether (TAME)	9.00	0.50	µg/L	10.0		90.0	70-130			
Benzene	9.79	1.0	µg/L	10.0		97.9	70-130			
Bromobenzene	10.3	1.0	µg/L	10.0		103	70-130			
Bromochloromethane	11.5	1.0	µg/L	10.0		115	70-130			
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130			
Bromoform	10.7	1.0	µg/L	10.0		107	70-130			
Bromomethane	4.18	2.0	µg/L	10.0		41.8	40-160		V-05	†
2-Butanone (MEK)	101	20	µg/L	100		101	40-160			†
tert-Butyl Alcohol (TBA)	83.9	20	µg/L	100		83.9	40-160			†
n-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
sec-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
tert-Butyl Ethyl Ether (TBEE)	7.88	0.50	µg/L	10.0		78.8	70-130			
Carbon Disulfide	105	5.0	µg/L	100		105	70-130			
Carbon Tetrachloride	11.8	5.0	µg/L	10.0		118	70-130			
Chlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
Chlorodibromomethane	10.1	0.50	µg/L	10.0		101	70-130			
Chloroethane	7.94	2.0	µg/L	10.0		79.4	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B258850 - SW-846 5030B										
LCS (B258850-BS1)										
Prepared & Analyzed: 05/28/20										
Chloroform	11.0	2.0	µg/L	10.0		110	70-130			
Chloromethane	6.58	2.0	µg/L	10.0		65.8	40-160			V-05 †
2-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130			
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.0	5.0	µg/L	10.0		100	70-130			
1,2-Dibromoethane (EDB)	9.77	0.50	µg/L	10.0		97.7	70-130			
Dibromomethane	9.78	1.0	µg/L	10.0		97.8	70-130			
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
trans-1,4-Dichloro-2-butene	7.78	2.0	µg/L	10.0		77.8	70-130			V-05
Dichlorodifluoromethane (Freon 12)	11.3	2.0	µg/L	10.0		113	40-160			†
1,1-Dichloroethane	9.42	1.0	µg/L	10.0		94.2	70-130			
1,2-Dichloroethane	9.64	1.0	µg/L	10.0		96.4	70-130			
1,1-Dichloroethylene	9.38	1.0	µg/L	10.0		93.8	70-130			
cis-1,2-Dichloroethylene	9.72	1.0	µg/L	10.0		97.2	70-130			
trans-1,2-Dichloroethylene	9.72	1.0	µg/L	10.0		97.2	70-130			
1,2-Dichloropropane	8.86	1.0	µg/L	10.0		88.6	70-130			
1,3-Dichloropropane	9.27	0.50	µg/L	10.0		92.7	70-130			
2,2-Dichloropropane	11.7	1.0	µg/L	10.0		117	40-130			†
1,1-Dichloropropene	10.4	2.0	µg/L	10.0		104	70-130			
cis-1,3-Dichloropropene	9.62	0.50	µg/L	10.0		96.2	70-130			
trans-1,3-Dichloropropene	9.93	0.50	µg/L	10.0		99.3	70-130			
Diethyl Ether	7.24	2.0	µg/L	10.0		72.4	70-130			V-05
Diisopropyl Ether (DIPE)	9.24	0.50	µg/L	10.0		92.4	70-130			
1,4-Dioxane	89.0	50	µg/L	100		89.0	40-130			†
Ethylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
Hexachlorobutadiene	9.83	0.60	µg/L	10.0		98.3	70-130			
2-Hexanone (MBK)	102	10	µg/L	100		102	70-160			†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.0		110	70-130			
p-Isopropyltoluene (p-Cymene)	10.3	1.0	µg/L	10.0		103	70-130			
Methyl Acetate	8.94	1.0	µg/L	10.0		89.4	70-130			
Methyl tert-Butyl Ether (MTBE)	8.86	1.0	µg/L	10.0		88.6	70-130			
Methyl Cyclohexane	10.0	1.0	µg/L	10.0		100	70-130			
Methylene Chloride	9.39	5.0	µg/L	10.0		93.9	70-130			
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100		102	70-160			†
Naphthalene	10.2	2.0	µg/L	10.0		102	40-130			†
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Styrene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1,2-Tetrachloroethane	11.0	1.0	µg/L	10.0		110	70-130			
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130			
Tetrachloroethylene	11.8	1.0	µg/L	10.0		118	70-130			
Tetrahydrofuran	8.35	10	µg/L	10.0		83.5	70-130			
Toluene	9.86	1.0	µg/L	10.0		98.6	70-130			
1,2,3-Trichlorobenzene	10.2	5.0	µg/L	10.0		102	70-130			
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,3,5-Trichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,1,1-Trichloroethane	12.0	1.0	µg/L	10.0		120	70-130			
1,1,2-Trichloroethane	9.36	1.0	µg/L	10.0		93.6	70-130			
Trichloroethylene	11.1	1.0	µg/L	10.0		111	70-130			
Trichlorofluoromethane (Freon 11)	10.8	2.0	µg/L	10.0		108	70-130			
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B258850 - SW-846 5030B

LCS (B258850-BS1)

Prepared & Analyzed: 05/28/20

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.96	1.0	µg/L	10.0		99.6	70-130			
1,2,4-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
Vinyl Chloride	8.22	2.0	µg/L	10.0		82.2	40-160			†
m+p Xylene	21.9	2.0	µg/L	20.0		110	70-130			
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130			
Xylenes (total)	32.5	1.0	µg/L	30.0		108	0-200			
Surrogate: 1,2-Dichloroethane-d4	24.4		µg/L	25.0		97.6	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	26.0		µg/L	25.0		104	70-130			

LCS Dup (B258850-BSD1)

Prepared & Analyzed: 05/28/20

Acetone	92.8	50	µg/L	100		92.8	70-160	6.34	25	†
Acrylonitrile	8.36	5.0	µg/L	10.0		83.6	70-130	4.90	25	
tert-Amyl Methyl Ether (TAME)	8.47	0.50	µg/L	10.0		84.7	70-130	6.07	25	
Benzene	9.64	1.0	µg/L	10.0		96.4	70-130	1.54	25	
Bromobenzene	10.2	1.0	µg/L	10.0		102	70-130	0.777	25	
Bromochloromethane	11.0	1.0	µg/L	10.0		110	70-130	4.34	25	
Bromodichloromethane	10.3	0.50	µg/L	10.0		103	70-130	1.86	25	
Bromoform	10.4	1.0	µg/L	10.0		104	70-130	3.03	25	
Bromomethane	4.35	2.0	µg/L	10.0		43.5	40-160	3.99	25	V-05 †
2-Butanone (MEK)	96.7	20	µg/L	100		96.7	40-160	4.52	25	†
tert-Butyl Alcohol (TBA)	76.1	20	µg/L	100		76.1	40-160	9.76	25	†
n-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130	3.13	25	
sec-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130	2.92	25	
tert-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130	2.84	25	
tert-Butyl Ethyl Ether (TBEE)	7.92	0.50	µg/L	10.0		79.2	70-130	0.506	25	
Carbon Disulfide	105	5.0	µg/L	100		105	70-130	0.287	25	
Carbon Tetrachloride	11.6	5.0	µg/L	10.0		116	70-130	1.80	25	
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	2.12	25	
Chlorodibromomethane	10.0	0.50	µg/L	10.0		100	70-130	0.697	25	
Chloroethane	8.00	2.0	µg/L	10.0		80.0	70-130	0.753	25	
Chloroform	10.8	2.0	µg/L	10.0		108	70-130	1.93	25	
Chloromethane	6.37	2.0	µg/L	10.0		63.7	40-160	3.24	25	V-05 †
2-Chlorotoluene	10.7	1.0	µg/L	10.0		107	70-130	3.77	25	
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130	0.185	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.69	5.0	µg/L	10.0		96.9	70-130	3.55	25	
1,2-Dibromoethane (EDB)	9.85	0.50	µg/L	10.0		98.5	70-130	0.815	25	
Dibromomethane	9.81	1.0	µg/L	10.0		98.1	70-130	0.306	25	
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	1.18	25	
1,3-Dichlorobenzene	9.95	1.0	µg/L	10.0		99.5	70-130	3.84	25	
1,4-Dichlorobenzene	9.97	1.0	µg/L	10.0		99.7	70-130	1.99	25	
trans-1,4-Dichloro-2-butene	7.82	2.0	µg/L	10.0		78.2	70-130	0.513	25	V-05
Dichlorodifluoromethane (Freon 12)	11.0	2.0	µg/L	10.0		110	40-160	2.79	25	†
1,1-Dichloroethane	9.49	1.0	µg/L	10.0		94.9	70-130	0.740	25	
1,2-Dichloroethane	9.62	1.0	µg/L	10.0		96.2	70-130	0.208	25	
1,1-Dichloroethylene	9.32	1.0	µg/L	10.0		93.2	70-130	0.642	25	
cis-1,2-Dichloroethylene	9.66	1.0	µg/L	10.0		96.6	70-130	0.619	25	
trans-1,2-Dichloroethylene	9.21	1.0	µg/L	10.0		92.1	70-130	5.39	25	
1,2-Dichloropropane	8.69	1.0	µg/L	10.0		86.9	70-130	1.94	25	
1,3-Dichloropropane	9.19	0.50	µg/L	10.0		91.9	70-130	0.867	25	
2,2-Dichloropropane	12.1	1.0	µg/L	10.0		121	40-130	2.86	25	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B258850 - SW-846 5030B										
LCS Dup (B258850-BSD1)										
Prepared & Analyzed: 05/28/20										
1,1-Dichloropropene	10.8	2.0	µg/L	10.0		108	70-130	4.07	25	
cis-1,3-Dichloropropene	9.54	0.50	µg/L	10.0		95.4	70-130	0.835	25	
trans-1,3-Dichloropropene	9.74	0.50	µg/L	10.0		97.4	70-130	1.93	25	
Diethyl Ether	7.20	2.0	µg/L	10.0		72.0	70-130	0.554	25	V-05
Diisopropyl Ether (DIPE)	9.09	0.50	µg/L	10.0		90.9	70-130	1.64	25	
1,4-Dioxane	86.6	50	µg/L	100		86.6	40-130	2.69	50	† ‡
Ethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	1.67	25	
Hexachlorobutadiene	9.10	0.60	µg/L	10.0		91.0	70-130	7.71	25	
2-Hexanone (MBK)	96.8	10	µg/L	100		96.8	70-160	5.66	25	†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.0		110	70-130	0.364	25	
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.0		101	70-130	1.18	25	
Methyl Acetate	8.66	1.0	µg/L	10.0		86.6	70-130	3.18	25	
Methyl tert-Butyl Ether (MTBE)	8.85	1.0	µg/L	10.0		88.5	70-130	0.113	25	
Methyl Cyclohexane	9.81	1.0	µg/L	10.0		98.1	70-130	2.22	25	
Methylene Chloride	9.09	5.0	µg/L	10.0		90.9	70-130	3.25	25	
4-Methyl-2-pentanone (MIBK)	98.4	10	µg/L	100		98.4	70-160	3.49	25	†
Naphthalene	98.7	2.0	µg/L	10.0		98.7	40-130	2.80	25	†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108	70-130	1.10	25	
Styrene	10.1	1.0	µg/L	10.0		101	70-130	1.08	25	
1,1,1,2-Tetrachloroethane	10.7	1.0	µg/L	10.0		107	70-130	2.31	25	
1,1,2,2-Tetrachloroethane	9.62	0.50	µg/L	10.0		96.2	70-130	5.16	25	
Tetrachloroethylene	11.5	1.0	µg/L	10.0		115	70-130	2.92	25	
Tetrahydrofuran	8.36	10	µg/L	10.0		83.6	70-130	0.120	25	
Toluene	9.91	1.0	µg/L	10.0		99.1	70-130	0.506	25	
1,2,3-Trichlorobenzene	10.4	5.0	µg/L	10.0		104	70-130	1.84	25	
1,2,4-Trichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	2.72	25	
1,3,5-Trichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	1.34	25	
1,1,1-Trichloroethane	12.0	1.0	µg/L	10.0		120	70-130	0.167	25	
1,1,2-Trichloroethane	9.37	1.0	µg/L	10.0		93.7	70-130	0.107	25	
Trichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	0.0901	25	
Trichlorofluoromethane (Freon 11)	10.8	2.0	µg/L	10.0		108	70-130	0.371	25	
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0		103	70-130	1.06	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	µg/L	10.0		101	70-130	1.10	25	
1,2,4-Trimethylbenzene	9.96	1.0	µg/L	10.0		99.6	70-130	1.20	25	
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	3.26	25	
Vinyl Chloride	8.03	2.0	µg/L	10.0		80.3	40-160	2.34	25	†
m+p Xylene	21.5	2.0	µg/L	20.0		108	70-130	1.93	25	
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130	1.04	25	
Xylenes (total)	32.0	1.0	µg/L	30.0		107	0-200	1.64		
Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	26.7		µg/L	25.0		107	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 B258927 - SW-846 5030B

Blank (B258927-BLK1)

Prepared & Analyzed: 05/29/20

Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B258927 - SW-846 5030B

Blank (B258927-BLK1)

Prepared & Analyzed: 05/29/20

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	30.3		µg/L	25.0		121	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.2		µg/L	25.0		96.6	70-130			

LCS (B258927-BS1)

Prepared & Analyzed: 05/29/20

Acetone	158	50	µg/L	100		158	70-160		L-14, V-20	†
Acrylonitrile	11.7	5.0	µg/L	10.0		117	70-130			
tert-Amyl Methyl Ether (TAME)	10.3	0.50	µg/L	10.0		103	70-130			
Benzene	10.6	1.0	µg/L	10.0		106	70-130			
Bromobenzene	10.2	1.0	µg/L	10.0		102	70-130			
Bromochloromethane	12.6	1.0	µg/L	10.0		126	70-130			
Bromodichloromethane	11.1	0.50	µg/L	10.0		111	70-130			
Bromoform	9.39	1.0	µg/L	10.0		93.9	70-130			
Bromomethane	6.80	2.0	µg/L	10.0		68.0	40-160		L-14, V-20	†
2-Butanone (MEK)	120	20	µg/L	100		120	40-160			†
tert-Butyl Alcohol (TBA)	90.1	20	µg/L	100		90.1	40-160			†
n-Butylbenzene	9.16	1.0	µg/L	10.0		91.6	70-130			
sec-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
tert-Butylbenzene	9.65	1.0	µg/L	10.0		96.5	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.0	0.50	µg/L	10.0		100	70-130			
Carbon Disulfide	11.2	5.0	µg/L	10.0		112	70-130			
Carbon Tetrachloride	10.8	5.0	µg/L	10.0		108	70-130			
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
Chlorodibromomethane	10.3	0.50	µg/L	10.0		103	70-130			
Chloroethane	12.2	2.0	µg/L	10.0		122	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B258927 - SW-846 5030B										
LCS (B258927-BS1)										
Prepared & Analyzed: 05/29/20										
Chloroform	11.5	2.0	µg/L	10.0		115	70-130			
Chloromethane	15.2	2.0	µg/L	10.0		152	40-160			V-20, L-14 †
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130			
4-Chlorotoluene	9.88	1.0	µg/L	10.0		98.8	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.4	5.0	µg/L	10.0		114	70-130			
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130			
Dibromomethane	11.1	1.0	µg/L	10.0		111	70-130			
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
trans-1,4-Dichloro-2-butene	10.0	2.0	µg/L	10.0		100	70-130			
Dichlorodifluoromethane (Freon 12)	9.65	2.0	µg/L	10.0		96.5	40-160			†
1,1-Dichloroethane	11.4	1.0	µg/L	10.0		114	70-130			
1,2-Dichloroethane	11.1	1.0	µg/L	10.0		111	70-130			
1,1-Dichloroethylene	11.9	1.0	µg/L	10.0		119	70-130			
cis-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130			
trans-1,2-Dichloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
1,2-Dichloropropane	11.1	1.0	µg/L	10.0		111	70-130			
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130			
2,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	40-130			†
1,1-Dichloropropene	9.94	2.0	µg/L	10.0		99.4	70-130			
cis-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130			
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130			
Diethyl Ether	12.1	2.0	µg/L	10.0		121	70-130			
Diisopropyl Ether (DIPE)	11.5	0.50	µg/L	10.0		115	70-130			
1,4-Dioxane	101	50	µg/L	100		101	40-130			V-16 †
Ethylbenzene	9.55	1.0	µg/L	10.0		95.5	70-130			
Hexachlorobutadiene	9.57	0.60	µg/L	10.0		95.7	70-130			
2-Hexanone (MBK)	102	10	µg/L	100		102	70-160			†
Isopropylbenzene (Cumene)	9.64	1.0	µg/L	10.0		96.4	70-130			
p-Isopropyltoluene (p-Cymene)	9.39	1.0	µg/L	10.0		93.9	70-130			
Methyl Acetate	14.1	1.0	µg/L	10.0		141 *	70-130			L-02
Methyl tert-Butyl Ether (MTBE)	11.3	1.0	µg/L	10.0		113	70-130			
Methyl Cyclohexane	9.26	1.0	µg/L	10.0		92.6	70-130			
Methylene Chloride	12.8	5.0	µg/L	10.0		128	70-130			V-20
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100		101	70-160			†
Naphthalene	8.96	2.0	µg/L	10.0		89.6	40-130			†
n-Propylbenzene	9.44	1.0	µg/L	10.0		94.4	70-130			
Styrene	9.48	1.0	µg/L	10.0		94.8	70-130			
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113	70-130			
Tetrachloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
Tetrahydrofuran	12.7	10	µg/L	10.0		127	70-130			
Toluene	9.76	1.0	µg/L	10.0		97.6	70-130			
1,2,3-Trichlorobenzene	8.64	5.0	µg/L	10.0		86.4	70-130			
1,2,4-Trichlorobenzene	9.02	1.0	µg/L	10.0		90.2	70-130			
1,3,5-Trichlorobenzene	9.22	1.0	µg/L	10.0		92.2	70-130			
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130			
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130			
Trichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102	70-130			
1,2,3-Trichloropropane	9.64	2.0	µg/L	10.0		96.4	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B258927 - SW-846 5030B

LCS (B258927-BS1)

Prepared & Analyzed: 05/29/20

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.5	1.0	µg/L	10.0		115	70-130			
1,2,4-Trimethylbenzene	9.71	1.0	µg/L	10.0		97.1	70-130			
1,3,5-Trimethylbenzene	9.12	1.0	µg/L	10.0		91.2	70-130			
Vinyl Chloride	9.62	2.0	µg/L	10.0		96.2	40-160			†
m+p Xylene	19.1	2.0	µg/L	20.0		95.7	70-130			
o-Xylene	9.84	1.0	µg/L	10.0		98.4	70-130			
Xylenes (total)	29.0	1.0	µg/L	30.0		96.6	0-200			
Surrogate: 1,2-Dichloroethane-d4	29.7		µg/L	25.0		119	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.3		µg/L	25.0		97.1	70-130			

LCS Dup (B258927-BSD1)

Prepared & Analyzed: 05/29/20

Acetone	152	50	µg/L	100		152	70-160	3.86	25	L-14, V-20	†
Acrylonitrile	11.3	5.0	µg/L	10.0		113	70-130	3.47	25		
tert-Amyl Methyl Ether (TAME)	9.94	0.50	µg/L	10.0		99.4	70-130	3.46	25		
Benzene	10.5	1.0	µg/L	10.0		105	70-130	0.946	25		
Bromobenzene	9.50	1.0	µg/L	10.0		95.0	70-130	7.40	25		
Bromochloromethane	12.2	1.0	µg/L	10.0		122	70-130	3.32	25		
Bromodichloromethane	10.7	0.50	µg/L	10.0		107	70-130	3.58	25		
Bromoform	9.91	1.0	µg/L	10.0		99.1	70-130	5.39	25		
Bromomethane	7.55	2.0	µg/L	10.0		75.5	40-160	10.5	25	V-20	†
2-Butanone (MEK)	118	20	µg/L	100		118	40-160	1.17	25		†
tert-Butyl Alcohol (TBA)	97.0	20	µg/L	100		97.0	40-160	7.39	25		†
n-Butylbenzene	9.18	1.0	µg/L	10.0		91.8	70-130	0.218	25		
sec-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130	0.596	25		
tert-Butylbenzene	9.89	1.0	µg/L	10.0		98.9	70-130	2.46	25		
tert-Butyl Ethyl Ether (TBEE)	9.97	0.50	µg/L	10.0		99.7	70-130	0.799	25		
Carbon Disulfide	10.3	5.0	µg/L	10.0		103	70-130	8.31	25		
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130	7.00	25		
Chlorobenzene	9.92	1.0	µg/L	10.0		99.2	70-130	2.59	25		
Chlorodibromomethane	10.0	0.50	µg/L	10.0		100	70-130	2.75	25		
Chloroethane	11.0	2.0	µg/L	10.0		110	70-130	9.99	25		
Chloroform	11.4	2.0	µg/L	10.0		114	70-130	1.05	25		
Chloromethane	14.8	2.0	µg/L	10.0		148	40-160	2.87	25	L-14, V-20	†
2-Chlorotoluene	9.59	1.0	µg/L	10.0		95.9	70-130	5.67	25		
4-Chlorotoluene	9.57	1.0	µg/L	10.0		95.7	70-130	3.19	25		
1,2-Dibromo-3-chloropropane (DBCP)	11.6	5.0	µg/L	10.0		116	70-130	1.30	25		
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106	70-130	2.15	25		
Dibromomethane	10.9	1.0	µg/L	10.0		109	70-130	2.27	25		
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.853	25		
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.188	25		
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	0.943	25		
trans-1,4-Dichloro-2-butene	9.95	2.0	µg/L	10.0		99.5	70-130	0.501	25		
Dichlorodifluoromethane (Freon 12)	9.37	2.0	µg/L	10.0		93.7	40-160	2.94	25		†
1,1-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130	1.23	25		
1,2-Dichloroethane	11.0	1.0	µg/L	10.0		110	70-130	0.998	25		
1,1-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	4.46	25		
cis-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	2.18	25		
trans-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	1.84	25		
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130	5.16	25		
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130	0.758	25		
2,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	40-130	2.38	25		†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B258927 - SW-846 5030B										
LCS Dup (B258927-BSD1)										
					Prepared & Analyzed: 05/29/20					
1,1-Dichloropropene	9.55	2.0	µg/L	10.0		95.5	70-130	4.00	25	
cis-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130	0.199	25	
trans-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130	1.98	25	
Diethyl Ether	12.3	2.0	µg/L	10.0		123	70-130	1.31	25	
Diisopropyl Ether (DIPE)	11.3	0.50	µg/L	10.0		113	70-130	1.58	25	
1,4-Dioxane	105	50	µg/L	100		105	40-130	3.91	50	V-16 † ‡
Ethylbenzene	9.45	1.0	µg/L	10.0		94.5	70-130	1.05	25	
Hexachlorobutadiene	9.57	0.60	µg/L	10.0		95.7	70-130	0.00	25	
2-Hexanone (MBK)	101	10	µg/L	100		101	70-160	0.789	25	†
Isopropylbenzene (Cumene)	9.42	1.0	µg/L	10.0		94.2	70-130	2.31	25	
p-Isopropyltoluene (p-Cymene)	9.51	1.0	µg/L	10.0		95.1	70-130	1.27	25	
Methyl Acetate	14.0	1.0	µg/L	10.0		140 *	70-130	0.427	25	L-02
Methyl tert-Butyl Ether (MTBE)	11.3	1.0	µg/L	10.0		113	70-130	0.0888	25	
Methyl Cyclohexane	8.93	1.0	µg/L	10.0		89.3	70-130	3.63	25	
Methylene Chloride	12.9	5.0	µg/L	10.0		129	70-130	0.856	25	V-20
4-Methyl-2-pentanone (MIBK)	104	10	µg/L	100		104	70-160	2.63	25	†
Naphthalene	9.12	2.0	µg/L	10.0		91.2	40-130	1.77	25	†
n-Propylbenzene	9.39	1.0	µg/L	10.0		93.9	70-130	0.531	25	
Styrene	9.34	1.0	µg/L	10.0		93.4	70-130	1.49	25	
1,1,1,2-Tetrachloroethane	9.67	1.0	µg/L	10.0		96.7	70-130	8.89	25	
1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.0		112	70-130	1.24	25	
Tetrachloroethylene	9.43	1.0	µg/L	10.0		94.3	70-130	6.17	25	
Tetrahydrofuran	12.1	10	µg/L	10.0		121	70-130	4.59	25	
Toluene	9.62	1.0	µg/L	10.0		96.2	70-130	1.44	25	
1,2,3-Trichlorobenzene	8.80	5.0	µg/L	10.0		88.0	70-130	1.83	25	
1,2,4-Trichlorobenzene	8.87	1.0	µg/L	10.0		88.7	70-130	1.68	25	
1,3,5-Trichlorobenzene	9.12	1.0	µg/L	10.0		91.2	70-130	1.09	25	
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130	0.746	25	
1,1,2-Trichloroethane	11.3	1.0	µg/L	10.0		113	70-130	0.532	25	
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	4.51	25	
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104	70-130	2.53	25	
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.0		102	70-130	5.45	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0	1.0	µg/L	10.0		110	70-130	4.52	25	
1,2,4-Trimethylbenzene	9.67	1.0	µg/L	10.0		96.7	70-130	0.413	25	
1,3,5-Trimethylbenzene	8.94	1.0	µg/L	10.0		89.4	70-130	1.99	25	
Vinyl Chloride	9.32	2.0	µg/L	10.0		93.2	40-160	3.17	25	†
m+p Xylene	19.0	2.0	µg/L	20.0		94.8	70-130	0.998	25	
o-Xylene	9.86	1.0	µg/L	10.0		98.6	70-130	0.203	25	
Xylenes (total)	28.8	1.0	µg/L	30.0		96.0	0-200	0.588		
Surrogate: 1,2-Dichloroethane-d4	30.8		µg/L	25.0		123	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.1		µg/L	25.0		100	70-130			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B258898 - SW-846 3510C										
Blank (B258898-BLK1)										
					Prepared: 05/28/20 Analyzed: 05/29/20					
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: 2-Fluorobiphenyl	0.0710		mg/L	0.100		71.0	40-140			
LCS (B258898-BS1)										
					Prepared: 05/28/20 Analyzed: 05/29/20					
TPH (C9-C36)	0.662	0.20	mg/L	1.00		66.2	40-140			
Surrogate: 2-Fluorobiphenyl	0.0722		mg/L	0.100		72.2	40-140			
LCS Dup (B258898-BSD1)										
					Prepared: 05/28/20 Analyzed: 05/29/20					
TPH (C9-C36)	0.654	0.20	mg/L	1.00		65.4	40-140	1.23	25	
Surrogate: 2-Fluorobiphenyl	0.0722		mg/L	0.100		72.2	40-140			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B259061 - SW-846 3005A Dissolved										
Blank (B259061-BLK1)				Prepared & Analyzed: 06/01/20						
Lead	ND	0.50	µg/L							
LCS (B259061-BS1)				Prepared & Analyzed: 06/01/20						
Lead	105	0.50	µg/L	100		105	80-120			
Duplicate (B259061-DUP1)				Source: 20E1101-22			Prepared & Analyzed: 06/01/20			
Lead	ND	0.50	µg/L			ND		NC	20	
Matrix Spike (B259061-MS1)				Source: 20E1101-22			Prepared & Analyzed: 06/01/20			
Lead	26.5	0.62	µg/L	25.0		ND 106	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.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
O-31	Sample chromatography does not match reference standard exactly, possibly due to weathering.
RL-11	Elevated reporting limit due to high concentration of target compounds.
RL-13	Elevated reporting limit due to high concentration of non-target compounds.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
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
<i>SW-846 6020B in Water</i>	
Lead	CT,NH,NY,NC,ME,VA
<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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D 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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The CON-TEST 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	06/30/2020
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2021
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

CHAIN OF CUSTODY RECORD

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: Equus format

Enhanced Data Package Required:

Email To: catherine.joe@aptim.com

Fax To #:

con-test
ANALYTICAL LABORATORY

Company Name: Aptim Environmental & Infrastructure, Inc.
Address: 150 Royall Street, Canton, MA 02021
Phone: 617-794-1767

Project Name: Textron Providence
Project Location: 333 Adelaid Avenue, Providence, RI
Project Number: 631010697
Project Manager: Catherine Joe
Con-Test Bid: PO 835493

Invoice Recipient: Catherine Joe
Sampled By: DANIEL C. KELLY

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	MW-207D-20200526	5/26/20 0800	5/26/20 0800	3	3	GW	U
2	MW-207S-20200526	5/26/20 0830	5/26/20 0830	3	3	GW	U
3	MW-207D-20200526	5/26/20 0700	5/26/20 0700	3	3	GW	U
4	MW-202S-20200526	5/26/20 0730	5/26/20 0730	3	3	GW	U
5	MW-107D-20200526	5/26/20 0930	5/26/20 0930	3	3	GW	U
6	MW-101S-20200526	5/26/20 1000	5/26/20 1000	3	3	GW	U
7	MW-101S-20200526 FD	5/26/20 1000	5/26/20 1000	3	3	GW	U
8	MW-109D-20200526	5/26/20 1045	5/26/20 1045	3	3	GW	U
9	MW-201D-20200526	5/26/20 1120	5/26/20 1120	3	3	GW	U
10	MW-209D-20200526	5/26/20 1200	5/26/20 1200	3	3	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>	5/27/20 1300	<i>[Signature]</i>	5/27/20 1540
<i>[Signature]</i>	5/27/20 1630	<i>[Signature]</i>	5/27/20 1630
<i>[Signature]</i>	5/27/20 1630	<i>[Signature]</i>	5/27/20 1630
<i>[Signature]</i>	5/27/20 1630	<i>[Signature]</i>	5/27/20 1630
<i>[Signature]</i>	5/27/20 1630	<i>[Signature]</i>	5/27/20 1630

Detection Limit Requirements

MA

Program Information

- 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	3
Preservation Code	H
Container Code	V

Dissolved Metals Samples

- Field Filtered
- Lab to Filter

Orthophosphate Samples

- Field Filtered
- Lab to Filter

Matrix Codes:

- GW = Ground Water
- WW = Waste Water
- DW = Drinking Water
- A = Air
- S = Soil/Solid
- SL = Sludge
- O = Other (please define)

Preservation Codes:

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

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

Total Petroleum Hydrocarbons
EPA 8260C (VOCs)
Dissolved Lead
SW 6022 B

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



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Aptim
 Received By ca Date 5/27/20 Time 1900
 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 # 2 Actual Temp - 4.7
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? NA Were Samples Tamped with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? T MS/MSD? F
 Proper Media/Containers Used? F Is splitting samples required? F
 Were trip blanks received? T On COC? T
 Do all samples have the proper pH? Acid T Base _____

Vials	#	Containers:	#	#	#
Unp-	<u>248</u>	1 Liter Amb.	<u>4</u>	1 Liter Plastic	16 oz Amb.
HCL-	<u>7168</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:

Never received sample MW-101D-20200526